Analysis of Variance for Buck Afternoon

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## Working with Buck Afternoon that has three sheet

# Import the three sheet as a list into R

# Respiratory rate

# Fit the first model for Respiratory Rate

## [1] "---- RESPRT1 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 103.859 20.772 19.5827 9.095e-08 \*\*\*  
## THIregime 1 53.916 53.916 50.8303 2.277e-07 \*\*\*  
## Colour:THIregime 5 8.754 1.751 1.6505 0.185   
## Residuals 24 25.457 1.061   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.060715   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.41564 1.5628137 6 51.3 55.35974  
## BLK 50.86706 2.2089383 6 48.4 53.40832  
## BRN 51.59736 1.8313530 6 49.3 53.45320  
## WHT 56.22127 0.4682814 6 55.5 56.65371  
## WT/BLK 53.43040 1.9900194 6 50.1 55.51074  
## WT/BR 53.47772 1.6644348 6 51.4 55.60221  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.838521   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WHT 56.22127 a  
## WT/BR 53.47772 b  
## WT/BLK 53.43040 bc  
## BL/BR 53.41564 bc  
## BRN 51.59736 cd  
## BLK 50.86706 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.060715   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.39204 1.446802 18 52.37454 56.65371  
## AftLow 51.94444 2.455300 18 48.40000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7085434   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.39204 a  
## AftLow 51.94444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.060715 24 53.16824 1.937078 3.032039  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 54.59795 0.67012755 3 54.09945 55.35974 54.21706 54.33467  
## BL/BR:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## BLK:AftHigh 52.80080 0.52653746 3 52.47647 53.40832 52.49703 52.51759  
## BLK:AftLow 48.93333 0.83864971 3 48.40000 49.90000 48.45000 48.50000  
## BRN:AftHigh 53.22805 0.25269738 3 52.95474 53.45320 53.11547 53.27620  
## BRN:AftLow 49.96667 0.58594653 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 56.60920 0.05839991 3 56.54307 56.65371 56.58694 56.63081  
## WHT:AftLow 55.83333 0.30550505 3 55.50000 56.10000 55.70000 55.90000  
## WT/BLK:AftHigh 54.36080 1.72728428 3 52.37454 55.51074 53.78583 55.19712  
## WT/BLK:AftLow 52.50000 2.07846097 3 50.10000 53.70000 51.90000 53.70000  
## WT/BR:AftHigh 54.75544 0.74037738 3 54.23013 55.60221 54.33205 54.43398  
## WT/BR:AftLow 52.20000 1.21655251 3 51.40000 53.60000 51.50000 51.60000  
## Q75  
## BL/BR:AftHigh 54.84720  
## BL/BR:AftLow 52.70000  
## BLK:AftHigh 52.96296  
## BLK:AftLow 49.20000  
## BRN:AftHigh 53.36470  
## BRN:AftLow 50.30000  
## WHT:AftHigh 56.64226  
## WHT:AftLow 56.00000  
## WT/BLK:AftHigh 55.35393  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 55.01810  
## WT/BR:AftLow 52.60000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WHT:AftHigh 56.60920 a  
## WHT:AftLow 55.83333 ab  
## WT/BR:AftHigh 54.75544 abc  
## BL/BR:AftHigh 54.59795 abc  
## WT/BLK:AftHigh 54.36080 abc  
## BRN:AftHigh 53.22805 bc  
## BLK:AftHigh 52.80080 cd  
## WT/BLK:AftLow 52.50000 cd  
## BL/BR:AftLow 52.23333 cd  
## WT/BR:AftLow 52.20000 cd  
## BRN:AftLow 49.96667 de  
## BLK:AftLow 48.93333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT2 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.443 51.089 88.6751 1.133e-14 \*\*\*  
## THIregime 1 96.998 96.998 168.3595 2.438e-12 \*\*\*  
## Colour:THIregime 5 12.109 2.422 4.2037 0.006932 \*\*   
## Residuals 24 13.827 0.576   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5761336   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.85781 1.739405 6 53.6 57.70608  
## BLK 53.51049 2.113875 6 50.1 55.82711  
## BRN 50.50139 3.016556 6 47.2 53.88514  
## WHT 56.00916 1.087497 6 54.3 57.19831  
## WT/BLK 59.27519 1.459383 6 57.3 60.84228  
## WT/BR 55.36135 2.163514 6 52.6 57.44473  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.354973   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 59.27519 a  
## WHT 56.00916 b  
## BL/BR 55.85781 b  
## WT/BR 55.36135 b  
## BLK 53.51049 c  
## BRN 50.50139 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5761336   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.72736 2.353416 18 52.58362 60.84228  
## AftLow 53.44444 3.318615 18 47.20000 58.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5221902   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.72736 a  
## AftLow 53.44444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5761336 24 55.0859 1.377911 2.234586  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.38230 0.4223212 3 56.90461 57.70608 57.22040 57.53620  
## BL/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## BLK:AftHigh 55.12099 0.8944823 3 54.11513 55.82711 54.76793 55.42072  
## BLK:AftLow 51.90000 1.6093477 3 50.10000 53.20000 51.25000 52.40000  
## BRN:AftHigh 53.20278 0.6530591 3 52.58362 53.88514 52.86160 53.13958  
## BRN:AftLow 47.80000 0.6557439 3 47.20000 48.50000 47.45000 47.70000  
## WHT:AftHigh 56.85165 0.4170245 3 56.38888 57.19831 56.67832 56.96777  
## WHT:AftLow 55.16667 0.8082904 3 54.30000 55.90000 54.80000 55.30000  
## WT/BLK:AftHigh 60.51704 0.5334310 3 59.90142 60.84228 60.35443 60.80743  
## WT/BLK:AftLow 58.03333 0.6429101 3 57.30000 58.50000 57.80000 58.30000  
## WT/BR:AftHigh 57.28937 0.1639283 3 57.11804 57.44473 57.21169 57.30534  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 57.62114  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 55.62392  
## BLK:AftLow 52.80000  
## BRN:AftHigh 53.51236  
## BRN:AftLow 48.10000  
## WHT:AftHigh 57.08304  
## WHT:AftLow 55.60000  
## WT/BLK:AftHigh 60.82486  
## WT/BLK:AftLow 58.40000  
## WT/BR:AftHigh 57.37504  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.51704 a  
## WT/BLK:AftLow 58.03333 b  
## BL/BR:AftHigh 57.38230 bc  
## WT/BR:AftHigh 57.28937 bcd  
## WHT:AftHigh 56.85165 bcd  
## WHT:AftLow 55.16667 cde  
## BLK:AftHigh 55.12099 de  
## BL/BR:AftLow 54.33333 e  
## WT/BR:AftLow 53.43333 ef  
## BRN:AftHigh 53.20278 ef  
## BLK:AftLow 51.90000 f  
## BRN:AftLow 47.80000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT3 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 179.798 35.960 19.829 8.088e-08 \*\*\*  
## THIregime 1 86.312 86.312 47.595 3.907e-07 \*\*\*  
## Colour:THIregime 5 10.282 2.056 1.134 0.3696   
## Residuals 24 43.523 1.813   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.813469   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.43148 1.2452556 6 53.7 56.73255  
## BLK 51.49161 2.1785022 6 49.2 53.84391  
## BRN 50.46921 2.7057409 6 47.3 53.72833  
## WHT 55.65520 0.9700093 6 54.2 56.86323  
## WT/BLK 56.53826 3.1295072 6 53.1 61.15590  
## WT/BR 53.80467 1.9160437 6 51.3 56.01602  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.403944   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.53826 a  
## WHT 55.65520 ab  
## BL/BR 55.43148 ab  
## WT/BR 53.80467 bc  
## BLK 51.49161 cd  
## BRN 50.46921 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.813469   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.44681 2.13567 18 52.11755 61.1559  
## AftLow 52.35000 3.02990 18 47.30000 58.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9264503   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.44681 a  
## AftLow 52.35000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.813469 24 53.8984 2.498499 3.964519  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.49630 0.3630695 3 56.07824 56.73255 56.37817 56.67810  
## BL/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## BLK:AftHigh 53.44989 0.3417299 3 53.23438 53.84391 53.25288 53.27138  
## BLK:AftLow 49.53333 0.4932883 3 49.20000 50.10000 49.25000 49.30000  
## BRN:AftHigh 52.80508 0.8308613 3 52.11755 53.72833 52.34346 52.56936  
## BRN:AftLow 48.13333 1.1150486 3 47.30000 49.40000 47.50000 47.70000  
## WHT:AftHigh 56.37707 0.4750497 3 55.91397 56.86323 56.13400 56.35403  
## WHT:AftLow 54.93333 0.7505553 3 54.20000 55.70000 54.55000 54.90000  
## WT/BLK:AftHigh 58.17651 2.5909264 3 56.45160 61.15590 56.68682 56.92203  
## WT/BLK:AftLow 54.90000 3.1176915 3 53.10000 58.50000 53.10000 53.10000  
## WT/BR:AftHigh 55.37600 0.5544928 3 55.04031 56.01602 55.05599 55.07167  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 56.70533  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 53.55765  
## BLK:AftLow 49.70000  
## BRN:AftHigh 53.14885  
## BRN:AftLow 48.55000  
## WHT:AftHigh 56.60863  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 59.03897  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 55.54384  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.17651 a  
## BL/BR:AftHigh 56.49630 ab  
## WHT:AftHigh 56.37707 ab  
## WT/BR:AftHigh 55.37600 abc  
## WHT:AftLow 54.93333 abc  
## WT/BLK:AftLow 54.90000 abc  
## BL/BR:AftLow 54.36667 abc  
## BLK:AftHigh 53.44989 bcd  
## BRN:AftHigh 52.80508 bcd  
## WT/BR:AftLow 52.23333 cd  
## BLK:AftLow 49.53333 de  
## BRN:AftLow 48.13333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT4 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 121.566 24.313 9.4527 4.419e-05 \*\*\*  
## THIregime 1 62.102 62.102 24.1445 5.174e-05 \*\*\*  
## Colour:THIregime 5 9.458 1.892 0.7354 0.6042   
## Residuals 24 61.730 2.572   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.572102   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.94221 2.177068 6 50.4 55.72729  
## BLK 54.86601 1.013280 6 53.2 56.07787  
## BRN 53.75786 2.068207 6 50.1 55.91940  
## WHT 49.87439 2.702867 6 46.1 52.99198  
## WT/BLK 54.49654 2.743979 6 50.1 57.07884  
## WT/BR 55.47682 1.333924 6 53.6 56.83056  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.862947   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.47682 a  
## BLK 54.86601 a  
## WT/BLK 54.49654 a  
## BRN 53.75786 a  
## BL/BR 52.94221 a  
## WHT 49.87439 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.572102   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.88238 1.803759 18 51.34781 57.07884  
## AftLow 52.25556 2.843408 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.103345   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.88238 a  
## AftLow 52.25556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.572102 24 53.56897 2.993855 4.721495  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 54.68441 0.9073145 3 54.07622 55.72729 54.16297 54.24973  
## BL/BR:AftLow 51.20000 1.3856406 3 50.40000 52.80000 50.40000 50.40000  
## BLK:AftHigh 55.53202 0.5710811 3 54.93867 56.07787 55.25910 55.57952  
## BLK:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 55.04905 1.1352748 3 53.76492 55.91940 54.61387 55.46283  
## BRN:AftLow 52.46667 2.0984121 3 50.10000 54.10000 51.65000 53.20000  
## WHT:AftHigh 52.04878 0.8484302 3 51.34781 52.99198 51.57717 51.80654  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.35974 2.5951605 3 52.37454 57.07884 54.50019 56.62583  
## WT/BLK:AftLow 53.63333 3.1390020 3 50.10000 56.10000 52.40000 54.70000  
## WT/BR:AftHigh 56.62032 0.3351562 3 56.23381 56.83056 56.51520 56.79658  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 54.98851  
## BL/BR:AftLow 51.60000  
## BLK:AftHigh 55.82869  
## BLK:AftLow 54.70000  
## BRN:AftHigh 55.69111  
## BRN:AftLow 53.65000  
## WHT:AftHigh 52.39926  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.85234  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 56.81357  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.62032 a  
## BLK:AftHigh 55.53202 ab  
## WT/BLK:AftHigh 55.35974 ab  
## BRN:AftHigh 55.04905 ab  
## BL/BR:AftHigh 54.68441 ab  
## WT/BR:AftLow 54.33333 ab  
## BLK:AftLow 54.20000 ab  
## WT/BLK:AftLow 53.63333 ab  
## BRN:AftLow 52.46667 ab  
## WHT:AftHigh 52.04878 abc  
## BL/BR:AftLow 51.20000 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT5 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.593 62.919 21.4684 3.810e-08 \*\*\*  
## THIregime 1 117.831 117.831 40.2051 1.483e-06 \*\*\*  
## Colour:THIregime 5 9.638 1.928 0.6577 0.6587   
## Residuals 24 70.338 2.931   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.930751   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.94876 2.824347 6 50.1 58.11771  
## BLK 50.76966 2.212249 6 48.1 53.41994  
## BRN 50.93486 2.987549 6 47.4 54.66397  
## WHT 50.02817 2.850119 6 46.1 53.27946  
## WT/BLK 57.76046 2.522362 6 53.6 60.38927  
## WT/BR 55.97975 1.810948 6 53.7 57.81062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.056037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.76046 a  
## WT/BR 55.97975 a  
## BL/BR 54.94876 a  
## BRN 50.93486 b  
## BLK 50.76966 b  
## WHT 50.02817 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.930751   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.21278 2.802516 18 51.67636 60.38927  
## AftLow 51.59444 3.918654 18 46.10000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.177759   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.21278 a  
## AftLow 51.59444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.930751 24 53.40361 3.20567 5.039935  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.56419 1.6462562 3 54.83870 58.11771 55.78744 56.73618  
## BL/BR:AftLow 53.33333 3.0664855 3 50.10000 56.20000 51.90000 53.70000  
## BLK:AftHigh 52.63933 0.6768858 3 52.21498 53.41994 52.24902 52.28307  
## BLK:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 53.43639 1.0850752 3 52.60540 54.66397 52.82260 53.03979  
## BRN:AftLow 48.43333 1.5373137 3 47.40000 50.20000 47.55000 47.70000  
## WHT:AftHigh 52.35634 0.8287492 3 51.67636 53.27946 51.89478 52.11319  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.68759 2.3288899 3 56.03344 60.38927 57.83676 59.64007  
## WT/BLK:AftLow 56.83333 2.8112868 3 53.60000 58.70000 55.90000 58.20000  
## WT/BR:AftHigh 57.59283 0.2222756 3 57.36633 57.81062 57.48393 57.60154  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 57.42694  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 52.85150  
## BLK:AftLow 49.30000  
## BRN:AftHigh 53.85188  
## BRN:AftLow 48.95000  
## WHT:AftHigh 52.69633  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.01467  
## WT/BLK:AftLow 58.45000  
## WT/BR:AftHigh 57.70608  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.68759 a  
## WT/BR:AftHigh 57.59283 ab  
## WT/BLK:AftLow 56.83333 abc  
## BL/BR:AftHigh 56.56419 abc  
## WT/BR:AftLow 54.36667 abc  
## BRN:AftHigh 53.43639 bcd  
## BL/BR:AftLow 53.33333 bcd  
## BLK:AftHigh 52.63933 bcde  
## WHT:AftHigh 52.35634 cde  
## BLK:AftLow 48.90000 de  
## BRN:AftLow 48.43333 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT6 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 134.805 26.961 16.978 3.389e-07 \*\*\*  
## THIregime 1 57.705 57.705 36.338 3.180e-06 \*\*\*  
## Colour:THIregime 5 10.727 2.145 1.351 0.2774   
## Residuals 24 38.112 1.588   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.588008   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.49482 1.2152375 6 54.2 56.75869  
## BLK 54.06831 2.2864595 6 49.9 56.24775  
## BRN 55.11125 1.4018261 6 53.4 56.59273  
## WHT 50.15050 2.9689028 6 46.1 53.50815  
## WT/BLK 53.26506 1.7196982 6 50.5 55.45847  
## WT/BR 55.90648 0.9313605 6 54.7 56.97430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.24955   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.90648 a  
## BL/BR 55.49482 ab  
## BRN 55.11125 ab  
## BLK 54.06831 ab  
## WT/BLK 53.26506 b  
## WHT 50.15050 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.588008   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.26547 1.705086 18 51.93771 56.9743  
## AftLow 52.73333 2.809857 18 46.10000 55.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8669488   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.26547 a  
## AftLow 52.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.588008 24 53.9994 2.333659 3.709897  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.58964 0.1616110 3 56.43667 56.75869 56.50511 56.57356  
## BL/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BLK:AftHigh 55.10329 1.4976224 3 53.40832 56.24775 54.53106 55.65379  
## BLK:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 56.35582 0.2500553 3 56.09442 56.59273 56.23737 56.38032  
## BRN:AftLow 53.86667 0.4509250 3 53.40000 54.30000 53.65000 53.90000  
## WHT:AftHigh 52.60099 0.8131245 3 51.93771 53.50815 52.14741 52.35712  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 54.23013 1.3451276 3 52.79270 55.45847 53.61595 54.43921  
## WT/BLK:AftLow 52.30000 1.6703293 3 50.50000 53.80000 51.55000 52.60000  
## WT/BR:AftHigh 56.71295 0.2395312 3 56.50387 56.97430 56.58228 56.66068  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 56.66612  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 55.95077  
## BLK:AftLow 54.60000  
## BRN:AftHigh 56.48653  
## BRN:AftLow 54.10000  
## WHT:AftHigh 52.93263  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 54.94884  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 56.81749  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.71295 a  
## BL/BR:AftHigh 56.58964 a  
## BRN:AftHigh 56.35582 a  
## BLK:AftHigh 55.10329 ab  
## WT/BR:AftLow 55.10000 ab  
## BL/BR:AftLow 54.40000 ab  
## WT/BLK:AftHigh 54.23013 ab  
## BRN:AftLow 53.86667 ab  
## BLK:AftLow 53.03333 ab  
## WHT:AftHigh 52.60099 b  
## WT/BLK:AftLow 52.30000 b  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT7 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 250.209 50.042 64.9230 3.725e-13 \*\*\*  
## THIregime 1 73.351 73.351 95.1632 7.959e-10 \*\*\*  
## Colour:THIregime 5 14.931 2.986 3.8741 0.01025 \*   
## Residuals 24 18.499 0.771   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.770787   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.02255 1.0388169 6 55.7 58.22131  
## BLK 51.43327 1.7845667 6 49.1 53.23562  
## BRN 51.43914 2.7031520 6 47.3 54.13746  
## WHT 49.91633 2.7427781 6 46.1 53.07038  
## WT/BLK 52.77132 1.2990393 6 51.3 54.04718  
## WT/BR 56.34856 0.7581888 6 55.3 57.27921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.567243   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.02255 a  
## WT/BR 56.34856 a  
## WT/BLK 52.77132 b  
## BRN 51.43914 bc  
## BLK 51.43327 bc  
## WHT 49.91633 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.770787   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58261 2.177456 18 51.43741 58.22131  
## AftLow 51.72778 3.455908 18 46.10000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6039963   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58261 a  
## AftLow 51.72778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.770787 24 53.15519 1.651663 2.584655  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.81176 0.3548847 3 57.59501 58.22131 57.60698 57.61896  
## BL/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## BLK:AftHigh 52.99987 0.3945146 3 52.54442 53.23562 52.88199 53.21957  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 53.67828 0.7185608 3 52.85020 54.13746 53.44869 54.04718  
## BRN:AftLow 49.20000 1.6462078 3 47.30000 50.20000 48.70000 50.10000  
## WHT:AftHigh 52.13266 0.8430585 3 51.43741 53.07038 51.66379 51.89017  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 53.94264 0.1810686 3 53.73356 54.04718 53.89037 54.04718  
## WT/BLK:AftLow 51.60000 0.2645751 3 51.30000 51.80000 51.50000 51.70000  
## WT/BR:AftHigh 56.93045 0.4979922 3 56.36013 57.27921 56.75607 57.15202  
## WT/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 57.92014  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 53.22760  
## BLK:AftLow 50.25000  
## BRN:AftHigh 54.09232  
## BRN:AftLow 50.15000  
## WHT:AftHigh 52.48028  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 54.04718  
## WT/BLK:AftLow 51.75000  
## WT/BR:AftHigh 57.21561  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.81176 a  
## WT/BR:AftHigh 56.93045 a  
## BL/BR:AftLow 56.23333 ab  
## WT/BR:AftLow 55.76667 ab  
## WT/BLK:AftHigh 53.94264 bc  
## BRN:AftHigh 53.67828 bc  
## BLK:AftHigh 52.99987 c  
## WHT:AftHigh 52.13266 cd  
## WT/BLK:AftLow 51.60000 cde  
## BLK:AftLow 49.86667 def  
## BRN:AftLow 49.20000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT8 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 367.68 73.537 101.9998 2.312e-15 \*\*\*  
## THIregime 1 103.82 103.824 144.0096 1.249e-11 \*\*\*  
## Colour:THIregime 5 15.62 3.125 4.3342 0.005954 \*\*   
## Residuals 24 17.30 0.721   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7209498   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.32780 0.793602 6 57.3 59.25676  
## BLK 50.74186 2.055922 6 48.3 52.81884  
## BRN 50.93183 2.932065 6 48.1 53.79628  
## WHT 50.01419 2.836632 6 46.1 53.25333  
## WT/BLK 56.35954 1.530078 6 54.6 58.22878  
## WT/BR 55.38084 1.873175 6 52.7 57.67123  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.515729   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.32780 a  
## WT/BLK 56.35954 b  
## WT/BR 55.38084 b  
## BRN 50.93183 c  
## BLK 50.74186 c  
## WHT 50.01419 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7209498   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.32424 2.722609 18 51.64649 59.25676  
## AftLow 51.92778 4.019044 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5841435   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.32424 a  
## AftLow 51.92778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7209498 24 53.62601 1.58335 2.4997  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.02227 0.2105307 3 58.84949 59.25676 58.90502 58.96056  
## BL/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BLK:AftHigh 52.58371 0.3460350 3 52.18637 52.81884 52.46615 52.74593  
## BLK:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 53.59700 0.3160074 3 53.23264 53.79628 53.49736 53.76207  
## BRN:AftLow 48.26667 0.2886751 3 48.10000 48.60000 48.10000 48.10000  
## WHT:AftHigh 52.32838 0.8305366 3 51.64649 53.25333 51.86590 52.08531  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.68575 0.4827186 3 57.30534 58.22878 57.41424 57.52314  
## WT/BLK:AftLow 55.03333 0.5859465 3 54.60000 55.70000 54.70000 54.80000  
## WT/BR:AftHigh 56.72834 0.8839300 3 55.91845 57.67123 56.25689 56.59534  
## WT/BR:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 59.10866  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 52.78238  
## BLK:AftLow 49.20000  
## BRN:AftHigh 53.77918  
## BRN:AftLow 48.35000  
## WHT:AftHigh 52.66932  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.87596  
## WT/BLK:AftLow 55.25000  
## WT/BR:AftHigh 57.13329  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.02227 a  
## WT/BLK:AftHigh 57.68575 a  
## BL/BR:AftLow 57.63333 a  
## WT/BR:AftHigh 56.72834 ab  
## WT/BLK:AftLow 55.03333 bc  
## WT/BR:AftLow 54.03333 cd  
## BRN:AftHigh 53.59700 cd  
## BLK:AftHigh 52.58371 cd  
## WHT:AftHigh 52.32838 d  
## BLK:AftLow 48.90000 e  
## BRN:AftLow 48.26667 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT9 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.315 44.263 21.3885 3.948e-08 \*\*\*  
## THIregime 1 97.512 97.512 47.1189 4.239e-07 \*\*\*  
## Colour:THIregime 5 9.947 1.989 0.9613 0.4608   
## Residuals 24 49.667 2.069   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.069477   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.08529 1.249006 6 54.6 57.51007  
## BLK 50.52387 2.107239 6 48.2 52.80432  
## BRN 51.71392 3.655724 6 47.3 56.48819  
## WHT 50.02293 2.845059 6 46.1 53.26966  
## WT/BLK 55.23009 1.365274 6 53.7 56.90461  
## WT/BR 55.43202 1.449848 6 53.2 57.00915  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.568027   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.08529 a  
## WT/BR 55.43202 a  
## WT/BLK 55.23009 a  
## BRN 51.71392 b  
## BLK 50.52387 b  
## WHT 50.02293 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.069477   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.81382 2.221004 18 51.66516 57.51007  
## AftLow 51.52222 3.404764 18 46.10000 55.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9896859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.81382 a  
## AftLow 51.52222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.069477 24 53.16802 2.705701 4.235121  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.17059 0.2940157 3 56.99753 57.51007 57.00085 57.00417  
## BL/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BLK:AftHigh 52.41440 0.3397466 3 52.18197 52.80432 52.21945 52.25693  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 53.96117 2.1947713 3 52.53135 56.48819 52.69766 52.86398  
## BRN:AftLow 49.46667 3.6665151 3 47.30000 53.70000 47.35000 47.40000  
## WHT:AftHigh 52.34585 0.8294194 3 51.66516 53.26966 51.88395 52.10274  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.39352 0.4426121 3 56.13798 56.90461 56.13798 56.13798  
## WT/BLK:AftLow 54.06667 0.6350853 3 53.70000 54.80000 53.70000 53.70000  
## WT/BR:AftHigh 56.59738 0.5636127 3 55.95504 57.00915 56.39149 56.82794  
## WT/BR:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 57.25712  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 52.53062  
## BLK:AftLow 48.85000  
## BRN:AftHigh 54.67608  
## BRN:AftLow 50.55000  
## WHT:AftHigh 52.68620  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.52129  
## WT/BLK:AftLow 54.25000  
## WT/BR:AftHigh 56.91855  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.17059 a  
## WT/BR:AftHigh 56.59738 ab  
## WT/BLK:AftHigh 56.39352 abc  
## BL/BR:AftLow 55.00000 abc  
## WT/BR:AftLow 54.26667 abc  
## WT/BLK:AftLow 54.06667 abc  
## BRN:AftHigh 53.96117 abc  
## BLK:AftHigh 52.41440 bcd  
## WHT:AftHigh 52.34585 cd  
## BRN:AftLow 49.46667 de  
## BLK:AftLow 48.63333 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT10 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 197.008 39.402 25.1202 8.288e-09 \*\*\*  
## THIregime 1 73.464 73.464 46.8364 4.450e-07 \*\*\*  
## Colour:THIregime 5 11.828 2.366 1.5082 0.2245   
## Residuals 24 37.645 1.569   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.568521   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.72100 0.9436448 6 56.1 58.68179  
## BLK 52.40498 1.7543844 6 50.1 54.17923  
## BRN 54.82030 1.7283418 6 52.4 56.74780  
## WHT 50.11205 2.9314254 6 46.1 53.43627  
## WT/BLK 54.51893 2.7342241 6 50.4 58.22878  
## WT/BR 54.62719 1.2500265 6 53.2 55.89405  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.235704   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.72100 a  
## BRN 54.82030 b  
## WT/BR 54.62719 bc  
## WT/BLK 54.51893 bc  
## BLK 52.40498 c  
## WHT 50.11205 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.568521   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.46259 2.041495 18 51.85557 58.68179  
## AftLow 52.60556 3.214210 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.861613   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.46259 a  
## AftLow 52.60556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.568521 24 54.03407 2.317808 3.687063  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.20866 0.7344273 3 57.36259 58.68179 57.97210 58.58160  
## BL/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BLK:AftHigh 53.94329 0.3900132 3 53.49312 54.17923 53.82532 54.15753  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 56.27393 0.4747885 3 55.79823 56.74780 56.03700 56.27578  
## BRN:AftLow 53.36667 0.9504385 3 52.40000 54.30000 52.90000 53.40000  
## WHT:AftHigh 52.52410 0.8180321 3 51.85557 53.43627 52.06801 52.28045  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.07119 2.1019202 3 54.02976 58.22878 54.99240 55.95504  
## WT/BLK:AftLow 52.96667 2.6539279 3 50.40000 55.70000 51.60000 52.80000  
## WT/BR:AftHigh 55.75438 0.1573423 3 55.58392 55.89405 55.68454 55.78516  
## WT/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 58.63169  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 54.16838  
## BLK:AftLow 51.25000  
## BRN:AftHigh 56.51179  
## BRN:AftLow 53.85000  
## WHT:AftHigh 52.85836  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.09191  
## WT/BLK:AftLow 54.25000  
## WT/BR:AftHigh 55.83961  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.20866 a  
## BL/BR:AftLow 57.23333 ab  
## BRN:AftHigh 56.27393 abc  
## WT/BLK:AftHigh 56.07119 abcd  
## WT/BR:AftHigh 55.75438 abcd  
## BLK:AftHigh 53.94329 bcde  
## WT/BR:AftLow 53.50000 cde  
## BRN:AftLow 53.36667 cde  
## WT/BLK:AftLow 52.96667 cde  
## WHT:AftHigh 52.52410 de  
## BLK:AftLow 50.86667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT11 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 103.424 20.685 6.2462 0.0007626 \*\*\*  
## THIregime 1 63.212 63.212 19.0882 0.0002067 \*\*\*  
## Colour:THIregime 5 8.794 1.759 0.5311 0.7505246   
## Residuals 24 79.478 3.312   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.31157   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.08671 1.164433 6 53.7 56.34706  
## BLK 52.45426 2.694702 6 49.1 55.82146  
## BRN 54.18716 2.140728 6 50.3 56.20767  
## WHT 50.03341 2.855181 6 46.1 53.28927  
## WT/BLK 53.12788 2.784713 6 50.1 56.69553  
## WT/BR 54.66116 1.090899 6 53.6 55.70240  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.248524   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.08671 a  
## WT/BR 54.66116 a  
## BRN 54.18716 a  
## WT/BLK 53.12788 ab  
## BLK 52.45426 ab  
## WHT 50.03341 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.31157   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58353 1.724149 18 51.68756 56.69553  
## AftLow 51.93333 2.881585 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.251941   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58353 a  
## AftLow 51.93333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.31157 24 53.25843 3.416871 5.357379  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.10676 0.21196773 3 55.94632 56.34706 55.98661 56.02691  
## BL/BR:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## BLK:AftHigh 53.94186 1.62831190 3 52.96051 55.82146 53.00206 53.04360  
## BLK:AftLow 50.96667 2.97713509 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 55.44099 1.23983437 3 54.01059 56.20767 55.05765 56.10472  
## BRN:AftLow 52.93333 2.28108161 3 50.30000 54.30000 52.25000 54.20000  
## WHT:AftHigh 52.36682 0.82807899 3 51.68756 53.28927 51.90560 52.12364  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 53.98910 2.34907201 3 52.47908 56.69553 52.63589 52.79270  
## WT/BLK:AftLow 52.26667 3.41223290 3 50.10000 56.20000 50.30000 50.50000  
## WT/BR:AftHigh 55.65564 0.06925821 3 55.57608 55.70240 55.63227 55.68846  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 56.18698  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 54.43253  
## BLK:AftLow 51.90000  
## BRN:AftHigh 56.15620  
## BRN:AftLow 54.25000  
## WHT:AftHigh 52.70645  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 54.74411  
## WT/BLK:AftLow 53.35000  
## WT/BR:AftHigh 55.69543  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.10676 a  
## WT/BR:AftHigh 55.65564 a  
## BRN:AftHigh 55.44099 a  
## BL/BR:AftLow 54.06667 a  
## WT/BLK:AftHigh 53.98910 a  
## BLK:AftHigh 53.94186 a  
## WT/BR:AftLow 53.66667 a  
## BRN:AftLow 52.93333 ab  
## WHT:AftHigh 52.36682 ab  
## WT/BLK:AftLow 52.26667 ab  
## BLK:AftLow 50.96667 ab  
## WHT:AftLow 47.70000 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT12 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.338 51.068 74.9381 7.536e-14 \*\*\*  
## THIregime 1 99.370 99.370 145.8181 1.098e-11 \*\*\*  
## Colour:THIregime 5 11.392 2.278 3.3435 0.01969 \*   
## Residuals 24 16.355 0.681   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6814639   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.82965 1.301646 6 55.4 58.20638  
## BLK 54.64949 1.112394 6 53.2 55.89405  
## BRN 52.00517 2.586348 6 49.4 54.62215  
## WHT 50.15399 2.972316 6 46.1 53.51468  
## WT/BLK 57.82402 1.927944 6 54.7 59.87529  
## WT/BR 55.47278 1.803033 6 53.7 57.32712  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.473637   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.82402 a  
## BL/BR 56.82965 ab  
## WT/BR 55.47278 bc  
## BLK 54.64949 c  
## BRN 52.00517 d  
## WHT 50.15399 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6814639   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.15059 2.351838 18 51.94518 59.87529  
## AftLow 52.82778 3.334808 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5679217   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.15059 a  
## AftLow 52.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6814639 24 54.48918 1.514995 2.430283  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.99263 0.1865175 3 57.86289 58.20638 57.88576 57.90863  
## BL/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BLK:AftHigh 55.59899 0.2809553 3 55.33467 55.89405 55.45145 55.56824  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 54.34367 0.3223438 3 53.99055 54.62215 54.20443 54.41830  
## BRN:AftLow 49.66667 0.4618802 3 49.40000 50.20000 49.40000 49.40000  
## WHT:AftHigh 52.60798 0.8126785 3 51.94518 53.51468 52.15463 52.36409  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.24805 1.0192650 3 58.07197 59.87529 58.93443 59.79688  
## WT/BLK:AftLow 56.40000 1.4730920 3 54.70000 57.30000 55.95000 57.20000  
## WT/BR:AftHigh 57.11223 0.2249202 3 56.87847 57.32712 57.00479 57.13111  
## WT/BR:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 58.05750  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 55.73115  
## BLK:AftLow 53.95000  
## BRN:AftHigh 54.52022  
## BRN:AftLow 49.80000  
## WHT:AftHigh 52.93938  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.83608  
## WT/BLK:AftLow 57.25000  
## WT/BR:AftHigh 57.22912  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.24805 a  
## BL/BR:AftHigh 57.99263 ab  
## WT/BR:AftHigh 57.11223 ab  
## WT/BLK:AftLow 56.40000 bc  
## BL/BR:AftLow 55.66667 bcd  
## BLK:AftHigh 55.59899 bcd  
## BRN:AftHigh 54.34367 cde  
## WT/BR:AftLow 53.83333 de  
## BLK:AftLow 53.70000 de  
## WHT:AftHigh 52.60798 e  
## BRN:AftLow 49.66667 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT13 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.116 44.223 23.6896 1.473e-08 \*\*\*  
## THIregime 1 88.100 88.100 47.1936 4.185e-07 \*\*\*  
## Colour:THIregime 5 10.582 2.116 1.1338 0.3697   
## Residuals 24 44.803 1.867   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.866778   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.34577 1.741427 6 54.2 58.94314  
## BLK 53.93363 2.113193 6 50.2 56.16824  
## BRN 55.39533 1.696026 6 53.2 57.11543  
## WHT 50.26408 3.080352 6 46.1 53.72049  
## WT/BLK 57.73034 1.519648 6 55.8 59.56167  
## WT/BR 54.45033 2.554303 6 51.4 57.92823  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.439021   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.73034 a  
## BL/BR 57.34577 a  
## BRN 55.39533 ab  
## WT/BR 54.45033 b  
## BLK 53.93363 b  
## WHT 50.26408 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.866778   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.41761 2.234007 18 52.18039 59.56167  
## AftLow 53.28889 3.357676 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9399688   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.41761 a  
## AftLow 53.28889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.866778 24 54.85325 2.49083 4.022368  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.19155 1.2105459 3 56.79509 58.94314 57.81575 58.83642  
## BL/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## BLK:AftHigh 55.23392 1.1611753 3 53.93393 56.16824 54.76676 55.59960  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 56.89067 0.3364418 3 56.50387 57.11543 56.77829 57.05271  
## BRN:AftLow 53.90000 0.6082763 3 53.20000 54.30000 53.70000 54.20000  
## WHT:AftHigh 52.82817 0.7986418 3 52.18039 53.72049 52.38201 52.58362  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.02735 0.4725494 3 58.66436 59.56167 58.76019 58.85602  
## WT/BLK:AftLow 56.43333 0.7094599 3 55.80000 57.20000 56.05000 56.30000  
## WT/BR:AftHigh 56.33399 1.3868183 3 55.40620 57.92823 55.53688 55.66755  
## WT/BR:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 58.88978  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 55.88392  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.08407  
## BRN:AftLow 54.25000  
## WHT:AftHigh 53.15206  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.20884  
## WT/BLK:AftLow 56.75000  
## WT/BR:AftHigh 56.79789  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.02735 a  
## BL/BR:AftHigh 58.19155 a  
## BRN:AftHigh 56.89067 ab  
## BL/BR:AftLow 56.50000 abc  
## WT/BLK:AftLow 56.43333 abc  
## WT/BR:AftHigh 56.33399 abc  
## BLK:AftHigh 55.23392 abc  
## BRN:AftLow 53.90000 bc  
## WHT:AftHigh 52.82817 c  
## BLK:AftLow 52.63333 c  
## WT/BR:AftLow 52.56667 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT14 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 412.08 82.417 100.4088 2.765e-15 \*\*\*  
## THIregime 1 126.76 126.761 154.4335 6.039e-12 \*\*\*  
## Colour:THIregime 5 9.58 1.915 2.3335 0.07328 .   
## Residuals 24 19.70 0.821   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8208135   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91345 1.691229 6 54.7 58.69921  
## BLK 50.58573 2.264978 6 48.1 53.09761  
## BRN 52.03937 2.967860 6 48.1 55.21280  
## WHT 50.16622 2.984271 6 46.1 53.53755  
## WT/BLK 58.46353 1.608885 6 56.1 60.45026  
## WT/BR 57.22385 1.707210 6 55.2 59.10430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.617303   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.46353 a  
## WT/BR 57.22385 a  
## BL/BR 56.91345 a  
## BRN 52.03937 b  
## BLK 50.58573 bc  
## WHT 50.16622 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8208135   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.10850 3.064565 18 51.97131 60.45026  
## AftLow 52.35556 4.070731 18 46.10000 58.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6232888   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.10850 a  
## AftLow 52.35556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8208135 24 54.23203 1.670577 2.667213  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.39358 0.4062403 3 57.93258 58.69921 58.24076 58.54893  
## BL/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 52.60479 0.4268063 3 52.35528 53.09761 52.35838 52.36147  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 54.61207 0.8722408 3 53.61160 55.21280 54.31170 55.01180  
## BRN:AftLow 49.46667 1.1846237 3 48.10000 50.20000 49.10000 50.10000  
## WHT:AftHigh 52.63245 0.8111177 3 51.97131 53.53755 52.17990 52.38848  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.66040 0.9222168 3 58.64694 60.45026 59.26547 59.88400  
## WT/BLK:AftLow 57.26667 1.1503623 3 56.10000 58.40000 56.70000 57.30000  
## WT/BR:AftHigh 58.74770 0.3317147 3 58.44831 59.10430 58.56941 58.69050  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 58.62407  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 52.72954  
## BLK:AftLow 48.80000  
## BRN:AftHigh 55.11230  
## BRN:AftLow 50.15000  
## WHT:AftHigh 52.96301  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.16713  
## WT/BLK:AftLow 57.85000  
## WT/BR:AftHigh 58.89740  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.66040 a  
## WT/BR:AftHigh 58.74770 a  
## BL/BR:AftHigh 58.39358 a  
## WT/BLK:AftLow 57.26667 ab  
## WT/BR:AftLow 55.70000 b  
## BL/BR:AftLow 55.43333 b  
## BRN:AftHigh 54.61207 bc  
## WHT:AftHigh 52.63245 c  
## BLK:AftHigh 52.60479 c  
## BRN:AftLow 49.46667 d  
## BLK:AftLow 48.56667 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT15 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 261.554 52.311 27.6602 3.181e-09 \*\*\*  
## THIregime 1 113.059 113.059 59.7820 5.739e-08 \*\*\*  
## Colour:THIregime 5 5.875 1.175 0.6213 0.6849   
## Residuals 24 45.389 1.891   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.89119   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.11671 1.448247 6 54.6 57.50447  
## BLK 51.18575 2.066781 6 49.2 53.10051  
## BRN 52.81637 3.037815 6 48.4 56.49080  
## WHT 50.18545 3.003083 6 46.1 53.57348  
## WT/BLK 57.51071 2.030796 6 54.8 60.42412  
## WT/BR 55.71794 2.030889 6 52.8 58.15038  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.454917   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.51071 a  
## BL/BR 56.11671 a  
## WT/BR 55.71794 a  
## BRN 52.81637 b  
## BLK 51.18575 bc  
## WHT 50.18545 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.89119   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.69431 2.528100 18 52.01238 60.42412  
## AftLow 52.15000 3.465502 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9460948   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.69431 a  
## AftLow 52.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.89119 24 53.92215 2.550353 4.048583  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.43343 0.11114316 3 57.30534 57.50447 57.39790 57.49047  
## BL/BR:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 53.07151 0.02734017 3 53.04621 53.10051 53.05701 53.06781  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 54.83273 1.46409892 3 53.71788 56.49080 54.00370 54.28952  
## BRN:AftLow 50.80000 2.95465734 3 48.40000 54.10000 49.15000 49.90000  
## WHT:AftHigh 52.67089 0.80866560 3 52.01238 53.57348 52.21960 52.42681  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.95475 1.28109889 3 58.07197 60.42412 58.22007 58.36817  
## WT/BLK:AftLow 56.06667 1.55349069 3 54.80000 57.80000 55.20000 55.60000  
## WT/BR:AftHigh 57.20255 0.91420713 3 56.32615 58.15038 56.72863 57.13111  
## WT/BR:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 57.49747  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 53.08416  
## BLK:AftLow 49.35000  
## BRN:AftHigh 55.39016  
## BRN:AftLow 52.00000  
## WHT:AftHigh 53.00015  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.39614  
## WT/BLK:AftLow 56.70000  
## WT/BR:AftHigh 57.64074  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.95475 a  
## BL/BR:AftHigh 57.43343 ab  
## WT/BR:AftHigh 57.20255 ab  
## WT/BLK:AftLow 56.06667 abc  
## BRN:AftHigh 54.83273 bcd  
## BL/BR:AftLow 54.80000 bcd  
## WT/BR:AftLow 54.23333 bcd  
## BLK:AftHigh 53.07151 cde  
## WHT:AftHigh 52.67089 cde  
## BRN:AftLow 50.80000 def  
## BLK:AftLow 49.30000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT16 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.192 61.638 42.1757 4.049e-11 \*\*\*  
## THIregime 1 113.913 113.913 77.9442 5.282e-09 \*\*\*  
## Colour:THIregime 5 10.211 2.042 1.3973 0.2607   
## Residuals 24 35.075 1.461   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.461466   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.36007 1.927496 6 53.9 59.34968  
## BLK 51.96645 1.973756 6 50.1 53.83535  
## BRN 52.36970 2.570902 6 49.6 54.77896  
## WHT 50.20292 3.020211 6 46.1 53.60615  
## WT/BLK 58.13065 1.516642 6 56.1 60.00596  
## WT/BR 55.47654 2.489442 6 51.6 58.69921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.15806   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.13065 a  
## BL/BR 57.36007 ab  
## WT/BR 55.47654 b  
## BRN 52.36970 c  
## BLK 51.96645 cd  
## WHT 50.20292 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.461466   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.02989 2.623888 18 52.04972 60.00596  
## AftLow 52.47222 3.729344 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8316899   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.02989 a  
## AftLow 52.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.461466 24 54.25105 2.228364 3.559015  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.38680 1.24989066 3 56.97430 59.34968 57.90536 58.83642  
## BL/BR:AftLow 56.33333 2.13619600 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 53.76623 0.09110139 3 53.66300 53.83535 53.73167 53.80035  
## BLK:AftLow 50.16667 0.11547005 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 54.70607 0.06815360 3 54.64393 54.77896 54.66963 54.69533  
## BRN:AftLow 50.03333 0.37859389 3 49.60000 50.30000 49.90000 50.20000  
## WHT:AftHigh 52.70584 0.80643703 3 52.04972 53.60615 52.25569 52.46166  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.36130 0.60582110 3 58.80375 60.00596 59.03897 59.27418  
## WT/BLK:AftLow 56.90000 0.91651514 3 56.10000 57.90000 56.40000 56.70000  
## WT/BR:AftHigh 57.25307 1.34724172 3 56.03344 58.69921 56.53001 57.02657  
## WT/BR:AftLow 53.70000 2.05182845 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 59.09305  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 53.81785  
## BLK:AftLow 50.20000  
## BRN:AftHigh 54.73714  
## BRN:AftLow 50.25000  
## WHT:AftHigh 53.03390  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.64007  
## WT/BLK:AftLow 57.30000  
## WT/BR:AftHigh 57.86289  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BL/BR:AftHigh 58.38680 a  
## WT/BR:AftHigh 57.25307 ab  
## WT/BLK:AftLow 56.90000 ab  
## BL/BR:AftLow 56.33333 ab  
## BRN:AftHigh 54.70607 bc  
## BLK:AftHigh 53.76623 bc  
## WT/BR:AftLow 53.70000 bcd  
## WHT:AftHigh 52.70584 cde  
## BLK:AftLow 50.16667 def  
## BRN:AftLow 50.03333 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT17 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 214.142 42.828 46.2593 1.508e-11 \*\*\*  
## THIregime 1 95.794 95.794 103.4681 3.520e-10 \*\*\*  
## Colour:THIregime 5 8.698 1.740 1.8789 0.1356   
## Residuals 24 22.220 0.926   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9258352   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.35577 1.738712 6 53.1 57.37006  
## BLK 52.98502 2.040765 6 49.4 55.12743  
## BRN 51.49945 2.522619 6 49.2 54.02105  
## WHT 50.00720 2.829896 6 46.1 53.24026  
## WT/BLK 55.84819 1.518513 6 53.9 57.60154  
## WT/BR 56.75850 1.215251 6 55.2 58.13295  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.717655   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.75850 a  
## WT/BLK 55.84819 a  
## BL/BR 55.35577 a  
## BLK 52.98502 b  
## BRN 51.49945 bc  
## WHT 50.00720 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9258352   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.37360 2.142051 18 51.63156 58.13295  
## AftLow 52.11111 3.134793 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6619633   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.37360 a  
## AftLow 52.11111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9258352 24 53.74235 1.7904 2.832711  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.84487 0.5120486 3 56.34706 57.37006 56.58228 56.81749  
## BL/BR:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 54.30336 1.0882734 3 53.06973 55.12743 53.89133 54.71293  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 53.79890 0.2159105 3 53.58982 54.02105 53.68782 53.78583  
## BRN:AftLow 49.20000 0.0000000 3 49.20000 49.20000 49.20000 49.20000  
## WHT:AftHigh 52.31440 0.8314305 3 51.63156 53.24026 51.85147 52.07137  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.16305 0.4634683 3 56.67810 57.60154 56.94381 57.20952  
## WT/BLK:AftLow 54.53333 0.6027714 3 53.90000 55.10000 54.25000 54.60000  
## WT/BR:AftHigh 57.81701 0.3475522 3 57.44473 58.13295 57.65904 57.87334  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.09377  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 54.92018  
## BLK:AftLow 52.80000  
## BRN:AftHigh 53.90344  
## BRN:AftLow 49.20000  
## WHT:AftHigh 52.65582  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.40553  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 58.00315  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.81701 a  
## WT/BLK:AftHigh 57.16305 ab  
## BL/BR:AftHigh 56.84487 abc  
## WT/BR:AftLow 55.70000 abcd  
## WT/BLK:AftLow 54.53333 bcde  
## BLK:AftHigh 54.30336 cdef  
## BL/BR:AftLow 53.86667 def  
## BRN:AftHigh 53.79890 def  
## WHT:AftHigh 52.31440 ef  
## BLK:AftLow 51.66667 fg  
## BRN:AftLow 49.20000 gh  
## WHT:AftLow 47.70000 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT18 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.69 66.538 99.1416 3.195e-15 \*\*\*  
## THIregime 1 92.01 92.008 137.0915 2.076e-11 \*\*\*  
## Colour:THIregime 5 20.28 4.056 6.0439 0.0009342 \*\*\*  
## Residuals 24 16.11 0.671   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6711401   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.50173 1.003676 6 57.1 59.69815  
## BLK 55.32938 1.168834 6 53.3 56.49011  
## BRN 51.26415 3.025145 6 48.2 54.34179  
## WHT 50.19244 3.009931 6 46.1 53.58655  
## WT/BLK 57.24513 1.466926 6 55.5 58.75148  
## WT/BR 56.12591 1.715430 6 53.6 58.08939  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.462432   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.50173 a  
## WT/BLK 57.24513 ab  
## WT/BR 56.12591 bc  
## BLK 55.32938 c  
## BRN 51.26415 d  
## WHT 50.19244 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6711401   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.37513 2.495023 18 52.02732 59.69815  
## AftLow 53.17778 3.935144 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5636035   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.37513 a  
## AftLow 53.17778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6711401 24 54.77645 1.49559 2.411804  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.33679 0.4038637 3 58.90082 59.69815 59.15611 59.41139  
## BL/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 56.15876 0.5213724 3 55.55778 56.49011 55.99308 56.42837  
## BLK:AftLow 54.50000 1.0392305 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 53.99496 0.4163743 3 53.53319 54.34179 53.82155 54.10990  
## BRN:AftLow 48.53333 0.5773503 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 52.68487 0.8077741 3 52.02732 53.58655 52.23403 52.44075  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.55692 0.2719287 3 58.24620 58.75148 58.45964 58.67308  
## WT/BLK:AftLow 55.93333 0.3785939 3 55.50000 56.20000 55.80000 56.10000  
## WT/BR:AftHigh 57.51849 0.5706144 3 56.94817 58.08939 57.23304 57.51791  
## WT/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 59.55477  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 56.45924  
## BLK:AftLow 55.10000  
## BRN:AftHigh 54.22585  
## BRN:AftLow 48.70000  
## WHT:AftHigh 53.01365  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.71228  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.80365  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.33679 a  
## WT/BLK:AftHigh 58.55692 ab  
## BL/BR:AftLow 57.66667 abc  
## WT/BR:AftHigh 57.51849 abc  
## BLK:AftHigh 56.15876 bcd  
## WT/BLK:AftLow 55.93333 cd  
## WT/BR:AftLow 54.73333 de  
## BLK:AftLow 54.50000 de  
## BRN:AftHigh 53.99496 de  
## WHT:AftHigh 52.68487 e  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT19 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.112 36.622 18.382 1.639e-07 \*\*\*  
## THIregime 1 89.323 89.323 44.834 6.320e-07 \*\*\*  
## Colour:THIregime 5 8.706 1.741 0.874 0.5132   
## Residuals 24 47.815 1.992   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.992309   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51585 1.392916 6 54.8 58.29847  
## BLK 52.96306 2.197632 6 50.2 55.69891  
## BRN 53.30842 2.104003 6 51.2 55.52119  
## WHT 50.15749 2.975731 6 46.1 53.52121  
## WT/BLK 56.58562 1.888300 6 54.2 59.16964  
## WT/BR 55.12067 2.356199 6 51.6 58.21571  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.519692   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.58562 a  
## BL/BR 56.51585 a  
## WT/BR 55.12067 ab  
## BRN 53.30842 b  
## BLK 52.96306 b  
## WHT 50.15749 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.992309   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.68370 2.061312 18 51.95265 59.16964  
## AftLow 52.53333 3.138002 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9710584   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.68370 a  
## AftLow 52.53333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.992309 24 54.10852 2.608631 4.155409  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.56503 0.6362735 3 57.16098 58.29847 57.19831 57.23565  
## BL/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 54.32612 1.1917160 3 53.55749 55.69891 53.63972 53.72194  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 55.21684 0.2662213 3 55.02724 55.52119 55.06466 55.10208  
## BRN:AftLow 51.40000 0.2645751 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 52.61497 0.8122326 3 51.95265 53.52121 52.16185 52.37106  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.67123 1.3070984 3 56.76522 59.16964 56.92203 57.07884  
## WT/BLK:AftLow 55.50000 1.9157244 3 54.20000 57.70000 54.40000 54.60000  
## WT/BR:AftHigh 56.70801 1.3516303 3 55.60483 58.21571 55.95416 56.30350  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 57.76706  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 54.71043  
## BLK:AftLow 52.30000  
## BRN:AftHigh 55.31164  
## BRN:AftLow 51.50000  
## WHT:AftHigh 52.94613  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.12424  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.25961  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.67123 a  
## BL/BR:AftHigh 57.56503 a  
## WT/BR:AftHigh 56.70801 ab  
## WT/BLK:AftLow 55.50000 abc  
## BL/BR:AftLow 55.46667 abc  
## BRN:AftHigh 55.21684 abc  
## BLK:AftHigh 54.32612 abc  
## WT/BR:AftLow 53.53333 abc  
## WHT:AftHigh 52.61497 bc  
## BLK:AftLow 51.60000 cd  
## BRN:AftLow 51.40000 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT20 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.327 36.665 16.5390 4.293e-07 \*\*\*  
## THIregime 1 85.572 85.572 38.6000 2.023e-06 \*\*\*  
## Colour:THIregime 5 9.920 1.984 0.8949 0.5002   
## Residuals 24 53.206 2.217   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.2169   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.78643 1.292699 6 55.2 58.10682  
## BLK 53.58154 2.404150 6 49.2 55.91790  
## BRN 53.96566 2.868597 6 49.1 57.15962  
## WHT 50.25884 3.075185 6 46.1 53.71069  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 56.28070 1.487947 6 54.3 58.01099  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.657922   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.78643 a  
## WT/BR 56.28070 ab  
## WT/BLK 56.24402 ab  
## BRN 53.96566 bc  
## BLK 53.58154 c  
## WHT 50.25884 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.2169   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.06129 2.040494 18 52.16919 58.10682  
## AftLow 52.97778 3.214591 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.02433   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.06129 a  
## AftLow 52.97778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.2169 24 54.51953 2.730995 4.383374  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.93953 0.2131464 3 57.69955 58.10682 57.85589 58.01223  
## BL/BR:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## BLK:AftHigh 54.86309 1.4535439 3 53.20505 55.91790 54.33568 55.46631  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 55.86464 1.5589446 3 54.13430 57.15962 55.21716 56.30002  
## BRN:AftLow 52.06667 2.7061658 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 52.81768 0.7993097 3 52.16919 53.71069 52.37118 52.57317  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.35471 0.9634305 3 56.24252 57.93258 57.06577 57.88903  
## WT/BLK:AftLow 55.13333 1.1590226 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 57.52807 0.4624298 3 57.08929 58.01099 57.28661 57.48393  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 58.05952  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 55.69210  
## BLK:AftLow 53.85000  
## BRN:AftHigh 56.72982  
## BRN:AftLow 53.55000  
## WHT:AftHigh 53.14193  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.91080  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 57.74746  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.93953 a  
## WT/BR:AftHigh 57.52807 a  
## WT/BLK:AftHigh 57.35471 a  
## BRN:AftHigh 55.86464 ab  
## BL/BR:AftLow 55.63333 ab  
## WT/BLK:AftLow 55.13333 ab  
## WT/BR:AftLow 55.03333 ab  
## BLK:AftHigh 54.86309 ab  
## WHT:AftHigh 52.81768 b  
## BLK:AftLow 52.30000 b  
## BRN:AftLow 52.06667 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT21 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 264.261 52.852 46.8254 1.323e-11 \*\*\*  
## THIregime 1 104.603 104.603 92.6748 1.028e-09 \*\*\*  
## Colour:THIregime 5 6.760 1.352 1.1978 0.34   
## Residuals 24 27.089 1.129   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.128709   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.96593 1.708592 6 53.7 58.02551  
## BLK 50.66237 2.261601 6 48.3 53.04580  
## BRN 54.28140 2.409764 6 50.2 56.91728  
## WHT 50.18195 2.999660 6 46.1 53.56695  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 56.64411 1.481537 6 54.6 58.18696  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.896532   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## WT/BR 56.64411 a  
## BL/BR 55.96593 ab  
## BRN 54.28140 b  
## BLK 50.66237 c  
## WHT 50.18195 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.128709   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.78141 2.433030 18 52.00492 58.85602  
## AftLow 52.37222 3.408261 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7309001   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.78141 a  
## AftLow 52.37222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.128709 24 54.07681 1.964626 3.12771  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.33186 0.6090402 3 56.88469 58.02551 56.98503 57.08537  
## BL/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## BLK:AftHigh 52.69141 0.3205829 3 52.42158 53.04580 52.51422 52.60685  
## BLK:AftLow 48.63333 0.5773503 3 48.30000 49.30000 48.30000 48.30000  
## BRN:AftHigh 55.99614 1.0923005 3 54.78941 56.91728 55.53557 56.28172  
## BRN:AftLow 52.56667 2.1221059 3 50.20000 54.30000 51.70000 53.20000  
## WHT:AftHigh 52.66390 0.8091114 3 52.00492 53.56695 52.21238 52.41984  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.08359 0.6717217 3 57.63639 58.85602 57.69737 57.75835  
## WT/BLK:AftLow 55.36667 0.8082904 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 57.92155 0.3853289 3 57.47958 58.18696 57.78884 58.09811  
## WT/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 57.55544  
## BL/BR:AftLow 55.05000  
## BLK:AftHigh 52.82632  
## BLK:AftLow 48.80000  
## BRN:AftHigh 56.59950  
## BRN:AftLow 53.75000  
## WHT:AftHigh 52.99340  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.30719  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 58.14253  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## WT/BR:AftHigh 57.92155 a  
## BL/BR:AftHigh 57.33186 ab  
## BRN:AftHigh 55.99614 ab  
## WT/BLK:AftLow 55.36667 abc  
## WT/BR:AftLow 55.36667 abc  
## BL/BR:AftLow 54.60000 bc  
## BLK:AftHigh 52.69141 c  
## WHT:AftHigh 52.66390 c  
## BRN:AftLow 52.56667 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT22 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 305.926 61.185 11.8619 7.455e-06 \*\*\*  
## THIregime 1 102.938 102.938 19.9565 0.000161 \*\*\*  
## Colour:THIregime 5 11.627 2.325 0.4508 0.808474   
## Residuals 24 123.794 5.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.158104   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.32338 1.918355 6 54.8 59.58780  
## BLK 54.23516 1.819412 6 51.3 56.27446  
## BRN 55.00068 2.822945 6 50.2 57.95698  
## WHT 50.45107 3.265918 6 46.1 54.07005  
## WT/BLK 57.71083 2.259536 6 53.9 60.52866  
## WT/BR 59.45803 4.115903 6 54.8 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.054284   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 59.45803 a  
## WT/BLK 57.71083 ab  
## BL/BR 57.32338 ab  
## BRN 55.00068 b  
## BLK 54.23516 bc  
## WHT 50.45107 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.158104   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.38749 2.851596 18 52.57989 64.09347  
## AftLow 54.00556 4.222555 18 46.10000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.562471   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.38749 a  
## AftLow 54.00556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 5.158104 24 55.69652 4.077716 6.686217  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.94677 0.6197554 3 58.35074 59.58780 58.62625 58.90176  
## BL/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## BLK:AftHigh 55.60364 0.7836013 3 54.74237 56.27446 55.26823 55.79410  
## BLK:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## BRN:AftHigh 57.03470 1.3294875 3 55.51074 57.95698 56.57356 57.63639  
## BRN:AftLow 52.96667 2.3965253 3 50.20000 54.40000 52.25000 54.30000  
## WHT:AftHigh 53.20214 0.7748591 3 52.57989 54.07005 52.76818 52.95648  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.08833 1.5836395 3 57.39246 60.52866 58.36817 59.34387  
## WT/BLK:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## WT/BR:AftHigh 60.44938 3.1559355 3 58.60774 64.09347 58.62734 58.64694  
## WT/BR:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## Q75  
## BL/BR:AftHigh 59.24478  
## BL/BR:AftLow 56.15000  
## BLK:AftHigh 56.03428  
## BLK:AftLow 53.65000  
## BRN:AftHigh 57.79668  
## BRN:AftLow 54.35000  
## WHT:AftHigh 53.51326  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.93627  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 61.37021  
## WT/BR:AftLow 60.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 60.44938 a  
## WT/BLK:AftHigh 59.08833 ab  
## BL/BR:AftHigh 58.94677 ab  
## WT/BR:AftLow 58.46667 ab  
## BRN:AftHigh 57.03470 ab  
## WT/BLK:AftLow 56.33333 ab  
## BL/BR:AftLow 55.70000 ab  
## BLK:AftHigh 55.60364 ab  
## WHT:AftHigh 53.20214 bc  
## BRN:AftLow 52.96667 bc  
## BLK:AftLow 52.86667 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT23 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 318.58 63.717 104.6555 1.724e-15 \*\*\*  
## THIregime 1 105.43 105.434 173.1763 1.809e-12 \*\*\*  
## Colour:THIregime 5 14.52 2.904 4.7691 0.003627 \*\*   
## Residuals 24 14.61 0.609   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6088221   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.54479 1.143877 6 56.1 58.84855  
## BLK 50.88101 2.137957 6 48.3 53.00178  
## BRN 51.11443 2.872923 6 48.1 54.09945  
## WHT 50.11904 2.938230 6 46.1 53.44934  
## WT/BLK 55.76985 1.499148 6 53.8 57.39246  
## WT/BR 56.27230 1.378011 6 54.2 57.87160  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.392882   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.54479 a  
## WT/BR 56.27230 ab  
## WT/BLK 55.76985 b  
## BRN 51.11443 c  
## BLK 50.88101 c  
## WHT 50.11904 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6088221   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.32825 2.489777 18 51.87051 58.84855  
## AftLow 51.90556 3.775536 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5367997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.32825 a  
## AftLow 51.90556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6088221 24 53.6169 1.45527 2.297104  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.48958 0.3213393 3 58.22878 58.84855 58.31009 58.39140  
## BL/BR:AftLow 56.60000 0.7000000 3 56.10000 57.40000 56.20000 56.30000  
## BLK:AftHigh 52.79535 0.2443624 3 52.52554 53.00178 52.69213 52.85873  
## BLK:AftLow 48.96667 0.6110101 3 48.30000 49.50000 48.70000 49.10000  
## BRN:AftHigh 53.69552 0.4525125 3 53.20650 54.09945 53.49355 53.78060  
## BRN:AftLow 48.53333 0.6658328 3 48.10000 49.30000 48.15000 48.20000  
## WHT:AftHigh 52.53808 0.8171396 3 51.87051 53.44934 52.08245 52.29439  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.07303 0.4247626 3 56.59099 57.39246 56.91332 57.23565  
## WT/BLK:AftLow 54.46667 0.5859465 3 53.80000 54.90000 54.25000 54.70000  
## WT/BR:AftHigh 57.37794 0.5627179 3 56.76522 57.87160 57.13111 57.49700  
## WT/BR:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## Q75  
## BL/BR:AftHigh 58.61998  
## BL/BR:AftLow 56.85000  
## BLK:AftHigh 52.93025  
## BLK:AftLow 49.30000  
## BRN:AftHigh 53.94003  
## BRN:AftLow 48.75000  
## WHT:AftHigh 52.87187  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.31406  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 57.68430  
## WT/BR:AftLow 55.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.48958 a  
## WT/BR:AftHigh 57.37794 ab  
## WT/BLK:AftHigh 57.07303 ab  
## BL/BR:AftLow 56.60000 abc  
## WT/BR:AftLow 55.16667 bcd  
## WT/BLK:AftLow 54.46667 cde  
## BRN:AftHigh 53.69552 de  
## BLK:AftHigh 52.79535 e  
## WHT:AftHigh 52.53808 e  
## BLK:AftLow 48.96667 f  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT24 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.522 62.904 67.7545 2.319e-13 \*\*\*  
## THIregime 1 108.753 108.753 117.1385 1.026e-10 \*\*\*  
## Colour:THIregime 5 10.563 2.113 2.2756 0.07922 .   
## Residuals 24 22.282 0.928   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9284151   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.82950 1.537112 6 54.9 58.42479  
## BLK 53.75041 1.989041 6 50.2 55.74305  
## BRN 51.74386 2.790428 6 49.1 54.50193  
## WHT 50.12428 2.943336 6 46.1 53.45914  
## WT/BLK 58.51145 1.413007 6 56.9 60.14535  
## WT/BR 56.40230 1.885313 6 53.8 58.45528  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.720047   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.51145 a  
## BL/BR 56.82950 ab  
## WT/BR 56.40230 b  
## BLK 53.75041 c  
## BRN 51.74386 d  
## WHT 50.12428 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9284151   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.29838 2.648373 18 51.88171 60.14535  
## AftLow 52.82222 3.663260 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.662885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.29838 a  
## AftLow 52.82222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9284151 24 54.5603 1.766015 2.836655  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.19234 0.2673252 3 57.90023 58.42479 58.07612 58.25201  
## BL/BR:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## BLK:AftHigh 55.00083 1.0817151 3 53.75970 55.74305 54.62972 55.49974  
## BLK:AftLow 52.50000 2.0074860 3 50.20000 53.90000 51.80000 53.40000  
## BRN:AftHigh 54.28773 0.2061350 3 54.09074 54.50193 54.18063 54.27052  
## BRN:AftLow 49.20000 0.1000000 3 49.10000 49.30000 49.15000 49.20000  
## WHT:AftHigh 52.54857 0.8164703 3 51.88171 53.45914 52.09328 52.30485  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.75623 0.3459896 3 59.48326 60.14535 59.56167 59.64007  
## WT/BLK:AftLow 57.26667 0.4725816 3 56.90000 57.80000 57.00000 57.10000  
## WT/BR:AftHigh 58.00460 0.4288595 3 57.60154 58.45528 57.77926 57.95698  
## WT/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## Q75  
## BL/BR:AftHigh 58.33840  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 55.62139  
## BLK:AftLow 53.65000  
## BRN:AftHigh 54.38622  
## BRN:AftLow 49.25000  
## WHT:AftHigh 52.88199  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.89271  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 58.20613  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.75623 a  
## BL/BR:AftHigh 58.19234 ab  
## WT/BR:AftHigh 58.00460 ab  
## WT/BLK:AftLow 57.26667 abc  
## BL/BR:AftLow 55.46667 bcd  
## BLK:AftHigh 55.00083 cde  
## WT/BR:AftLow 54.80000 cde  
## BRN:AftHigh 54.28773 de  
## WHT:AftHigh 52.54857 e  
## BLK:AftLow 52.50000 e  
## BRN:AftLow 49.20000 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT25 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.730 42.346 21.3109 4.087e-08 \*\*\*  
## THIregime 1 91.383 91.383 45.9893 5.156e-07 \*\*\*  
## Colour:THIregime 5 8.359 1.672 0.8413 0.5337   
## Residuals 24 47.689 1.987   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.987054   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.19781 1.444874 6 54.9 58.84109  
## BLK 52.87351 2.243588 6 50.1 55.66755  
## BRN 53.80312 2.998248 6 50.1 57.71131  
## WHT 50.18020 2.997949 6 46.1 53.56368  
## WT/BLK 56.48574 1.514300 6 54.8 58.33332  
## WT/BR 56.01908 1.447295 6 54.6 57.43166  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.516367   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.19781 a  
## WT/BLK 56.48574 a  
## WT/BR 56.01908 ab  
## BRN 53.80312 bc  
## BLK 52.87351 c  
## WHT 50.18020 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.987054   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.01982 2.222851 18 52.00118 58.84109  
## AftLow 52.83333 3.287946 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.969777   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.01982 a  
## AftLow 52.83333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.987054 24 54.42658 2.589964 4.149925  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.26228 0.61360958 3 57.61896 58.84109 57.97287 58.32679  
## BL/BR:AftLow 56.13333 1.20138809 3 54.90000 57.30000 55.55000 56.20000  
## BLK:AftHigh 54.28036 1.20135268 3 53.58225 55.66755 53.58676 53.59127  
## BLK:AftLow 51.46667 2.28108161 3 50.10000 54.10000 50.15000 50.20000  
## BRN:AftHigh 55.77291 1.67934714 3 54.75718 57.71131 54.80371 54.85024  
## BRN:AftLow 51.83333 2.83078317 3 50.10000 55.10000 50.20000 50.30000  
## WHT:AftHigh 52.66041 0.80933429 3 52.00118 53.56368 52.20877 52.41636  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.80481 0.45778406 3 57.53185 58.33332 57.54056 57.54927  
## WT/BLK:AftLow 55.16667 0.55075705 3 54.80000 55.80000 54.85000 54.90000  
## WT/BR:AftHigh 57.33816 0.08216877 3 57.27747 57.43166 57.29140 57.30534  
## WT/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 58.58394  
## BL/BR:AftLow 56.75000  
## BLK:AftHigh 54.62941  
## BLK:AftLow 52.15000  
## BRN:AftHigh 56.28077  
## BRN:AftLow 52.70000  
## WHT:AftHigh 52.99002  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.94129  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 57.36850  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.26228 a  
## WT/BLK:AftHigh 57.80481 a  
## WT/BR:AftHigh 57.33816 a  
## BL/BR:AftLow 56.13333 ab  
## BRN:AftHigh 55.77291 abc  
## WT/BLK:AftLow 55.16667 abcd  
## WT/BR:AftLow 54.70000 abcd  
## BLK:AftHigh 54.28036 abcd  
## WHT:AftHigh 52.66041 bcd  
## BRN:AftLow 51.83333 cde  
## BLK:AftLow 51.46667 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT26 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 277.121 55.424 130.3072 < 2.2e-16 \*\*\*  
## THIregime 1 103.454 103.454 243.2287 4.635e-14 \*\*\*  
## Colour:THIregime 5 10.308 2.062 4.8471 0.003325 \*\*   
## Residuals 24 10.208 0.425   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.425335   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.86780 1.292571 6 55.4 58.11677  
## BLK 50.50179 2.384970 6 48.1 52.92918  
## BRN 54.63453 1.930455 6 52.4 56.57182  
## WHT 50.29903 3.114847 6 46.1 53.78583  
## WT/BLK 56.48347 1.392851 6 54.8 58.07197  
## WT/BR 56.38460 1.437430 6 54.7 57.90471  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.164219   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.86780 a  
## WT/BLK 56.48347 a  
## WT/BR 56.38460 a  
## BRN 54.63453 b  
## BLK 50.50179 c  
## WHT 50.29903 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.425335   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89041 2.348934 18 52.25507 58.11677  
## AftLow 52.50000 3.462743 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4486758   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89041 a  
## AftLow 52.50000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.425335 24 54.1952 1.203385 1.919999  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.03560 0.1247744 3 57.89193 58.11677 57.99502 58.09811  
## BL/BR:AftLow 55.70000 0.2645751 3 55.40000 55.90000 55.60000 55.80000  
## BLK:AftHigh 52.67024 0.2242544 3 52.53919 52.92918 52.54077 52.54235  
## BLK:AftLow 48.33333 0.2516611 3 48.10000 48.60000 48.20000 48.30000  
## BRN:AftHigh 56.36905 0.3176656 3 56.00295 56.57182 56.26767 56.53238  
## BRN:AftLow 52.90000 0.4358899 3 52.40000 53.20000 52.75000 53.10000  
## WHT:AftHigh 52.89807 0.7941908 3 52.25507 53.78583 52.45419 52.65331  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.70027 0.3936028 3 57.28792 58.07197 57.51442 57.74093  
## WT/BLK:AftLow 55.26667 0.5033223 3 54.80000 55.80000 55.00000 55.20000  
## WT/BR:AftHigh 57.66920 0.2343525 3 57.43602 57.90471 57.55145 57.66688  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 58.10744  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 52.73577  
## BLK:AftLow 48.45000  
## BRN:AftHigh 56.55210  
## BRN:AftLow 53.15000  
## WHT:AftHigh 53.21957  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.90645  
## WT/BLK:AftLow 55.50000  
## WT/BR:AftHigh 57.78579  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.03560 a  
## WT/BLK:AftHigh 57.70027 a  
## WT/BR:AftHigh 57.66920 a  
## BRN:AftHigh 56.36905 ab  
## BL/BR:AftLow 55.70000 b  
## WT/BLK:AftLow 55.26667 b  
## WT/BR:AftLow 55.10000 b  
## BRN:AftLow 52.90000 c  
## WHT:AftHigh 52.89807 c  
## BLK:AftHigh 52.67024 c  
## BLK:AftLow 48.33333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT27 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 170.244 34.049 33.9775 3.912e-10 \*\*\*  
## THIregime 1 63.789 63.789 63.6552 3.310e-08 \*\*\*  
## Colour:THIregime 5 11.056 2.211 2.2065 0.08694 .   
## Residuals 24 24.050 1.002   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.002099   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.20969 1.1567774 6 55.7 58.57227  
## BLK 55.37336 0.9903025 6 54.2 56.55875  
## BRN 55.22722 2.2465924 6 51.2 57.35761  
## WHT 50.18719 3.0047946 6 46.1 53.57675  
## WT/BLK 55.14310 1.3388601 6 53.7 56.52129  
## WT/BR 55.61289 1.2616125 6 54.3 56.83840  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.787   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.20969 a  
## WT/BR 55.61289 ab  
## BLK 55.37336 b  
## BRN 55.22722 b  
## WT/BLK 55.14310 b  
## WHT 50.18719 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.002099   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.12338 1.787002 18 52.01612 58.57227  
## AftLow 53.46111 2.980947 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6886877   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.12338 a  
## AftLow 53.46111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.002099 24 54.79224 1.82699 2.947072  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.08604 0.4219192 3 57.81643 58.57227 57.84293 57.86942  
## BL/BR:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## BLK:AftHigh 56.21338 0.3024662 3 55.99569 56.55875 56.04070 56.08571  
## BLK:AftLow 54.53333 0.4932883 3 54.20000 55.10000 54.25000 54.30000  
## BRN:AftHigh 56.65445 1.1987619 3 55.27030 57.35761 56.30287 57.33544  
## BRN:AftLow 53.80000 2.2516660 3 51.20000 55.10000 53.15000 55.10000  
## WHT:AftHigh 52.67439 0.8084427 3 52.01612 53.57675 52.22321 52.43029  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.35287 0.1655981 3 56.19025 56.52129 56.26866 56.34706  
## WT/BLK:AftLow 53.93333 0.2516611 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 56.75912 0.1196610 3 56.62148 56.83840 56.71948 56.81749  
## WT/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 58.22085  
## BL/BR:AftLow 56.65000  
## BLK:AftHigh 56.32223  
## BLK:AftLow 54.70000  
## BRN:AftHigh 57.34653  
## BRN:AftLow 55.10000  
## WHT:AftHigh 53.00352  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.43418  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 56.82794  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.08604 a  
## WT/BR:AftHigh 56.75912 ab  
## BRN:AftHigh 56.65445 abc  
## WT/BLK:AftHigh 56.35287 abc  
## BL/BR:AftLow 56.33333 abc  
## BLK:AftHigh 56.21338 abc  
## BLK:AftLow 54.53333 bcd  
## WT/BR:AftLow 54.46667 bcd  
## WT/BLK:AftLow 53.93333 bcd  
## BRN:AftLow 53.80000 cd  
## WHT:AftHigh 52.67439 d  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT28 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 285.098 57.020 112.6211 7.454e-16 \*\*\*  
## THIregime 1 90.567 90.567 178.8824 1.282e-12 \*\*\*  
## Colour:THIregime 5 15.666 3.133 6.1887 0.0008076 \*\*\*  
## Residuals 24 12.151 0.506   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.506296   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.38418 0.9150272 6 57.4 59.25925  
## BLK 55.00305 1.1121030 6 53.4 56.20593  
## BRN 52.36904 2.6603082 6 49.3 54.98804  
## WHT 50.20816 3.0253543 6 46.1 53.61595  
## WT/BLK 57.46924 1.4865286 6 55.6 59.14351  
## WT/BR 55.51636 1.7785349 6 53.1 57.32277  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.270198   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.38418 a  
## WT/BLK 57.46924 a  
## WT/BR 55.51636 b  
## BLK 55.00305 b  
## BRN 52.36904 c  
## WHT 50.20816 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.506296   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.41112 2.340599 18 52.06092 59.25925  
## AftLow 53.23889 3.595608 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4895187   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.41112 a  
## AftLow 53.23889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.506296 24 54.825 1.297847 2.094776  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.20169 0.06990068 3 59.12390 59.25925 59.17291 59.22191  
## BL/BR:AftLow 57.56667 0.28867513 3 57.40000 57.90000 57.40000 57.40000  
## BLK:AftHigh 55.93943 0.34377435 3 55.55139 56.20593 55.80617 56.06095  
## BLK:AftLow 54.06667 0.58594653 3 53.40000 54.50000 53.85000 54.30000  
## BRN:AftHigh 54.77141 0.18867413 3 54.64306 54.98804 54.66309 54.68313  
## BRN:AftLow 49.96667 0.58594653 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 52.71633 0.80576858 3 52.06092 53.61595 52.26652 52.47211  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.77181 0.36196250 3 58.42044 59.14351 58.58596 58.75148  
## WT/BLK:AftLow 56.16667 0.55075705 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 57.06606 0.31613309 3 56.71295 57.32277 56.93771 57.16247  
## WT/BR:AftLow 53.96667 0.77674535 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 59.24058  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 56.13344  
## BLK:AftLow 54.40000  
## BRN:AftHigh 54.83559  
## BRN:AftLow 50.30000  
## WHT:AftHigh 53.04403  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.94749  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 57.24262  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.20169 a  
## WT/BLK:AftHigh 58.77181 ab  
## BL/BR:AftLow 57.56667 abc  
## WT/BR:AftHigh 57.06606 bc  
## WT/BLK:AftLow 56.16667 cd  
## BLK:AftHigh 55.93943 cde  
## BRN:AftHigh 54.77141 def  
## BLK:AftLow 54.06667 ef  
## WT/BR:AftLow 53.96667 ef  
## WHT:AftHigh 52.71633 f  
## BRN:AftLow 49.96667 g  
## WHT:AftLow 47.70000 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT29 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 258.418 51.684 33.5972 4.395e-10 \*\*\*  
## THIregime 1 98.468 98.468 64.0099 3.152e-08 \*\*\*  
## Colour:THIregime 5 11.568 2.314 1.5039 0.2258   
## Residuals 24 36.920 1.538   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.538332   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.74711 1.4169721 6 54.9 58.16904  
## BLK 55.37198 0.9889163 6 54.2 56.55614  
## BRN 52.79886 3.2328435 6 48.5 56.74344  
## WHT 50.24486 3.0614187 6 46.1 53.68456  
## WT/BLK 58.50071 1.6854888 6 56.1 60.42412  
## WT/BR 55.52628 1.9341809 6 53.7 57.53620  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.214085   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.50071 a  
## BL/BR 56.74711 ab  
## WT/BR 55.52628 b  
## BLK 55.37198 b  
## BRN 52.79886 c  
## WHT 50.24486 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.538332   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.51882 2.422056 18 52.13933 60.42412  
## AftLow 53.21111 3.490978 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8532811   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.51882 a  
## AftLow 53.21111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.538332 24 54.86497 2.260633 3.651409  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.99422 0.28925431 3 57.66034 58.16904 57.90681 58.15328  
## BL/BR:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 56.21063 0.30259978 3 55.99279 56.55614 56.03787 56.08296  
## BLK:AftLow 54.53333 0.49328829 3 54.20000 55.10000 54.25000 54.30000  
## BRN:AftHigh 54.93104 1.57040450 3 53.97400 56.74344 54.02485 54.07569  
## BRN:AftLow 50.66667 3.16596483 3 48.50000 54.30000 48.85000 49.20000  
## WHT:AftHigh 52.78972 0.80109093 3 52.13933 53.68456 52.34231 52.54529  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.90142 0.65285209 3 59.16964 60.42412 59.64007 60.11050  
## WT/BLK:AftLow 57.10000 0.88881944 3 56.10000 57.80000 56.75000 57.40000  
## WT/BR:AftHigh 57.28589 0.24621262 3 57.04399 57.53620 57.16073 57.27747  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 58.16116  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.31955  
## BLK:AftLow 54.70000  
## BRN:AftHigh 55.40957  
## BRN:AftLow 51.75000  
## WHT:AftHigh 53.11492  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.26731  
## WT/BLK:AftLow 57.60000  
## WT/BR:AftHigh 57.40683  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.90142 a  
## BL/BR:AftHigh 57.99422 ab  
## WT/BR:AftHigh 57.28589 abc  
## WT/BLK:AftLow 57.10000 abc  
## BLK:AftHigh 56.21063 bcd  
## BL/BR:AftLow 55.50000 bcd  
## BRN:AftHigh 54.93104 bcd  
## BLK:AftLow 54.53333 bcd  
## WT/BR:AftLow 53.76667 cde  
## WHT:AftHigh 52.78972 de  
## BRN:AftLow 50.66667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT30 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 293.059 58.612 82.6215 2.518e-14 \*\*\*  
## THIregime 1 94.686 94.686 133.4731 2.731e-11 \*\*\*  
## Colour:THIregime 5 13.022 2.604 3.6712 0.01312 \*   
## Residuals 24 17.026 0.709   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7094017   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.65462 1.275717 6 55.9 59.33807  
## BLK 51.55794 1.810714 6 49.4 53.38219  
## BRN 51.49431 2.773916 6 48.3 54.47579  
## WHT 50.01768 2.840002 6 46.1 53.25986  
## WT/BLK 56.13960 1.422200 6 54.2 57.96743  
## WT/BR 55.76651 1.502549 6 53.7 57.29837  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.503541   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.65462 a  
## WT/BLK 56.13960 b  
## WT/BR 55.76651 b  
## BLK 51.55794 c  
## BRN 51.49431 cd  
## WHT 50.01768 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7094017   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.39356 2.436987 18 51.65396 59.33807  
## AftLow 52.15000 3.614879 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5794463   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.39356 a  
## AftLow 52.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7094017 24 53.77178 1.56636 2.4796  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.50925 0.7399250 3 57.91516 59.33807 58.09484 58.27452  
## BL/BR:AftLow 56.80000 1.1532563 3 55.90000 58.10000 56.15000 56.40000  
## BLK:AftHigh 53.18255 0.2555907 3 52.89449 53.38219 53.08273 53.27097  
## BLK:AftLow 49.93333 0.4618802 3 49.40000 50.20000 49.80000 50.20000  
## BRN:AftHigh 53.98863 0.4491397 3 53.59101 54.47579 53.74504 53.89908  
## BRN:AftLow 49.00000 0.6082763 3 48.30000 49.40000 48.80000 49.30000  
## WHT:AftHigh 52.33537 0.8300897 3 51.65396 53.25986 51.87312 52.09228  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.27921 0.6561568 3 56.66068 57.96743 56.93510 57.20952  
## WT/BLK:AftLow 55.00000 0.8544004 3 54.20000 55.90000 54.55000 54.90000  
## WT/BR:AftHigh 57.06635 0.3633468 3 56.64761 57.29837 56.95034 57.25307  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 58.80629  
## BL/BR:AftLow 57.25000  
## BLK:AftHigh 53.32658  
## BLK:AftLow 50.20000  
## BRN:AftHigh 54.18744  
## BRN:AftLow 49.35000  
## WHT:AftHigh 52.67607  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.58847  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.27572  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.50925 a  
## WT/BLK:AftHigh 57.27921 ab  
## WT/BR:AftHigh 57.06635 ab  
## BL/BR:AftLow 56.80000 abc  
## WT/BLK:AftLow 55.00000 bcd  
## WT/BR:AftLow 54.46667 cde  
## BRN:AftHigh 53.98863 de  
## BLK:AftHigh 53.18255 de  
## WHT:AftHigh 52.33537 ef  
## BLK:AftLow 49.93333 fg  
## BRN:AftLow 49.00000 g  
## WHT:AftLow 47.70000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT31 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 226.527 45.305 37.483 1.407e-10 \*\*\*  
## THIregime 1 99.707 99.707 82.491 3.110e-09 \*\*\*  
## Colour:THIregime 5 9.555 1.911 1.581 0.2034   
## Residuals 24 29.009 1.209   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.208697   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.60778 1.611707 6 54.2 58.24040  
## BLK 55.25600 1.347049 6 53.2 56.81749  
## BRN 54.30974 2.507134 6 50.1 57.01707  
## WHT 50.36894 3.184107 6 46.1 53.91651  
## WT/BLK 58.45500 1.639081 6 56.2 60.31958  
## WT/BR 56.22120 2.032501 6 53.6 58.76455  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.962583   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.45500 a  
## BL/BR 56.60778 ab  
## WT/BR 56.22120 bc  
## BLK 55.25600 bc  
## BRN 54.30974 c  
## WHT 50.36894 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.208697   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.86733 2.252424 18 52.40441 60.31958  
## AftLow 53.53889 3.243480 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7563553   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.86733 a  
## AftLow 53.53889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.208697 24 55.20311 1.991568 3.236639  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.94890 0.4948591 3 57.37753 58.24040 57.80315 58.22878  
## BL/BR:AftLow 55.26667 0.9237604 3 54.20000 55.80000 55.00000 55.80000  
## BLK:AftHigh 56.31201 0.5300106 3 55.76047 56.81749 56.05927 56.35806  
## BLK:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 56.15282 1.0583937 3 54.97236 57.01707 55.72069 56.46902  
## BRN:AftLow 52.46667 2.0984121 3 50.10000 54.10000 51.65000 53.20000  
## WHT:AftHigh 53.03787 0.7852965 3 52.40441 53.91651 52.59855 52.79270  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.84334 0.5750580 3 59.20449 60.31958 59.60522 60.00596  
## WT/BLK:AftLow 57.06667 0.7767453 3 56.20000 57.70000 56.75000 57.30000  
## WT/BR:AftHigh 57.90906 0.7985358 3 57.18338 58.76455 57.48132 57.77926  
## WT/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 58.23459  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.58778  
## BLK:AftLow 54.70000  
## BRN:AftHigh 56.74304  
## BRN:AftLow 53.65000  
## WHT:AftHigh 53.35460  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.16277  
## WT/BLK:AftLow 57.50000  
## WT/BR:AftHigh 58.27190  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.84334 a  
## BL/BR:AftHigh 57.94890 ab  
## WT/BR:AftHigh 57.90906 ab  
## WT/BLK:AftLow 57.06667 abc  
## BLK:AftHigh 56.31201 bc  
## BRN:AftHigh 56.15282 bcd  
## BL/BR:AftLow 55.26667 bcde  
## WT/BR:AftLow 54.53333 cde  
## BLK:AftLow 54.20000 cde  
## WHT:AftHigh 53.03787 de  
## BRN:AftLow 52.46667 e  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT32 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 261.163 52.233 24.2096 1.191e-08 \*\*\*  
## THIregime 1 100.512 100.512 46.5868 4.647e-07 \*\*\*  
## Colour:THIregime 5 12.109 2.422 1.1225 0.3751   
## Residuals 24 51.780 2.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.157511   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.51562 1.578354 6 54.7 59.09497  
## BLK 50.97913 2.428383 6 48.1 53.86133  
## BRN 53.98161 3.191633 6 48.3 57.14537  
## WHT 50.29379 3.109667 6 46.1 53.77603  
## WT/BLK 56.23095 1.577910 6 53.7 57.98485  
## WT/BR 55.85778 1.464786 6 54.2 57.26701  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.622078   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.51562 a  
## WT/BLK 56.23095 ab  
## WT/BR 55.85778 ab  
## BRN 53.98161 b  
## BLK 50.97913 c  
## WHT 50.29379 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.157511   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.81407 2.369858 18 52.24387 59.09497  
## AftLow 52.47222 3.674844 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.010517   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.81407 a  
## AftLow 52.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.157511 24 54.14315 2.712895 4.324261  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.49791 0.8306632 3 57.54927 59.09497 58.19938 58.84949  
## BL/BR:AftLow 56.53333 1.6258331 3 54.70000 57.80000 55.90000 57.10000  
## BLK:AftHigh 53.05826 0.6958772 3 52.63314 53.86133 52.65673 52.68032  
## BLK:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 55.92988 1.8803398 3 53.76405 57.14537 55.32213 56.88021  
## BRN:AftLow 52.03333 3.2470499 3 48.30000 54.20000 50.95000 53.60000  
## WHT:AftHigh 52.88758 0.7948583 3 52.24387 53.77603 52.44336 52.64286  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.32857 1.0328868 3 56.13798 57.98485 57.00044 57.86289  
## WT/BLK:AftLow 55.13333 1.2423097 3 53.70000 55.90000 54.75000 55.80000  
## WT/BR:AftHigh 57.18222 0.1349756 3 57.02657 57.26701 57.13982 57.25307  
## WT/BR:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 58.97223  
## BL/BR:AftLow 57.45000  
## BLK:AftHigh 53.27083  
## BLK:AftLow 49.30000  
## BRN:AftHigh 57.01279  
## BRN:AftLow 53.90000  
## WHT:AftHigh 53.20944  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.92387  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 57.26004  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.49791 a  
## WT/BLK:AftHigh 57.32857 ab  
## WT/BR:AftHigh 57.18222 abc  
## BL/BR:AftLow 56.53333 abc  
## BRN:AftHigh 55.92988 abcd  
## WT/BLK:AftLow 55.13333 abcd  
## WT/BR:AftLow 54.53333 abcd  
## BLK:AftHigh 53.05826 bcde  
## WHT:AftHigh 52.88758 cde  
## BRN:AftLow 52.03333 de  
## BLK:AftLow 48.90000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT33 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 208.437 41.687 15.9544 5.925e-07 \*\*\*  
## THIregime 1 90.999 90.999 34.8267 4.344e-06 \*\*\*  
## Colour:THIregime 5 7.879 1.576 0.6031 0.6981   
## Residuals 24 62.710 2.613   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.612903   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.91740 1.673107 6 54.2 57.59501  
## BLK 54.11379 2.310379 6 49.9 56.33399  
## BRN 54.06742 3.143487 6 48.3 56.93153  
## WHT 50.20816 3.025354 6 46.1 53.61595  
## WT/BLK 57.57580 1.543558 6 55.7 59.56166  
## WT/BR 56.72341 1.662354 6 54.3 58.53195  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.885565   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.57580 a  
## WT/BR 56.72341 ab  
## BL/BR 55.91740 ab  
## BLK 54.11379 b  
## BRN 54.06742 b  
## WHT 50.20816 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.612903   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.35755 2.288253 18 52.06092 59.56166  
## AftLow 53.17778 3.343221 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.112061   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.35755 a  
## AftLow 53.17778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.612903 24 54.76767 2.951464 4.758796  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.43481 0.1437798 3 57.31696 57.59501 57.35471 57.39246  
## BL/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BLK:AftHigh 55.19424 1.4930345 3 53.50415 56.33399 54.62437 55.74458  
## BLK:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 55.86818 1.7810851 3 53.81197 56.93153 55.33651 56.86105  
## BRN:AftLow 52.26667 3.4355980 3 48.30000 54.30000 51.25000 54.20000  
## WHT:AftHigh 52.71633 0.8057686 3 52.06092 53.61595 52.26652 52.47211  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.81827 0.6796403 3 58.22878 59.56166 58.44657 58.66436  
## WT/BLK:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## WT/BR:AftHigh 58.11350 0.4982406 3 57.56234 58.53195 57.90427 58.24620  
## WT/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 57.49373  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 56.03929  
## BLK:AftLow 54.60000  
## BRN:AftHigh 56.89629  
## BRN:AftLow 54.25000  
## WHT:AftHigh 53.04403  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.11301  
## WT/BLK:AftLow 56.65000  
## WT/BR:AftHigh 58.38907  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.81827 a  
## WT/BR:AftHigh 58.11350 a  
## BL/BR:AftHigh 57.43481 ab  
## WT/BLK:AftLow 56.33333 abc  
## BRN:AftHigh 55.86818 abc  
## WT/BR:AftLow 55.33333 abc  
## BLK:AftHigh 55.19424 abc  
## BL/BR:AftLow 54.40000 abc  
## BLK:AftLow 53.03333 bc  
## WHT:AftHigh 52.71633 bc  
## BRN:AftLow 52.26667 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT34 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 385.49 77.098 111.9497 7.982e-16 \*\*\*  
## THIregime 1 119.75 119.746 173.8755 1.734e-12 \*\*\*  
## Colour:THIregime 5 10.31 2.063 2.9951 0.03068 \*   
## Residuals 24 16.53 0.689   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.688687   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.33288 1.343355 6 55.7 58.92322  
## BLK 51.52836 1.885666 6 49.1 53.42544  
## BRN 51.25991 2.851141 6 48.5 54.20399  
## WHT 50.03691 2.858558 6 46.1 53.29580  
## WT/BLK 58.78347 1.434887 6 57.2 60.34571  
## WT/BR 54.96798 2.365990 6 51.6 57.62768  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.481427   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.78347 a  
## BL/BR 57.33288 a  
## WT/BR 54.96798 b  
## BLK 51.52836 c  
## BRN 51.25991 cd  
## WHT 50.03691 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.688687   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80872 2.976085 18 51.69503 60.34571  
## AftLow 52.16111 3.924004 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5709236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80872 a  
## AftLow 52.16111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.688687 24 53.98492 1.537229 2.443129  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.43243 0.4256145 3 58.16489 58.92322 58.18704 58.20918  
## BL/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## BLK:AftHigh 53.19004 0.4029664 3 52.72475 53.42544 53.07234 53.41994  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 53.85315 0.3528392 3 53.49835 54.20399 53.67773 53.85711  
## BRN:AftLow 48.66667 0.1527525 3 48.50000 48.80000 48.60000 48.70000  
## WHT:AftHigh 52.37381 0.8276322 3 51.69503 53.29580 51.91282 52.13061  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 60.06694 0.2745212 3 59.79688 60.34571 59.92756 60.05823  
## WT/BLK:AftLow 57.50000 0.3605551 3 57.20000 57.90000 57.30000 57.40000  
## WT/BR:AftHigh 56.93597 0.9517782 3 55.85050 57.62768 56.59012 57.32974  
## WT/BR:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## Q75  
## BL/BR:AftHigh 58.56620  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 53.42269  
## BLK:AftLow 50.25000  
## BRN:AftHigh 54.03055  
## BRN:AftLow 48.75000  
## WHT:AftHigh 52.71321  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.20197  
## WT/BLK:AftLow 57.65000  
## WT/BR:AftHigh 57.47871  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.06694 a  
## BL/BR:AftHigh 58.43243 ab  
## WT/BLK:AftLow 57.50000 b  
## WT/BR:AftHigh 56.93597 b  
## BL/BR:AftLow 56.23333 bc  
## BRN:AftHigh 53.85315 cd  
## BLK:AftHigh 53.19004 d  
## WT/BR:AftLow 53.00000 d  
## WHT:AftHigh 52.37381 d  
## BLK:AftLow 49.86667 e  
## BRN:AftLow 48.66667 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT35 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 340.96 68.191 134.5464 < 2.2e-16 \*\*\*  
## THIregime 1 109.56 109.562 216.1746 1.677e-13 \*\*\*  
## Colour:THIregime 5 15.22 3.044 6.0061 0.0009707 \*\*\*  
## Residuals 24 12.16 0.507   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5068223   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.41364 0.8829104 6 57.3 59.40776  
## BLK 50.93479 2.2648532 6 48.3 53.22538  
## BRN 52.18301 2.7128453 6 49.3 55.13962  
## WHT 50.25884 3.0751853 6 46.1 53.71069  
## WT/BLK 56.60537 1.4347254 6 54.9 58.20265  
## WT/BR 55.97155 1.6141133 6 53.8 57.81062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.270858   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.41364 a  
## WT/BLK 56.60537 b  
## WT/BR 55.97155 b  
## BRN 52.18301 c  
## BLK 50.93479 cd  
## WHT 50.25884 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5068223   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80573 2.567838 18 52.16919 59.40776  
## AftLow 52.31667 3.882426 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4897731   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80573 a  
## AftLow 52.31667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5068223 24 54.0612 1.316868 2.095865  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.19394 0.1971481 3 59.01936 59.40776 59.08703 59.15471  
## BL/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BLK:AftHigh 52.96957 0.3644675 3 52.55226 53.22538 52.84167 53.13108  
## BLK:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 54.63268 0.4390553 3 54.37387 55.13962 54.37921 54.38456  
## BRN:AftLow 49.73333 0.4509250 3 49.30000 50.20000 49.50000 49.70000  
## WHT:AftHigh 52.81768 0.7993097 3 52.16919 53.71069 52.37118 52.57317  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.87741 0.2975176 3 57.61896 58.20265 57.71479 57.81062  
## WT/BLK:AftLow 55.33333 0.4509250 3 54.90000 55.80000 55.10000 55.30000  
## WT/BR:AftHigh 57.34309 0.4795639 3 56.85234 57.81062 57.10933 57.36633  
## WT/BR:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## Q75  
## BL/BR:AftHigh 59.28123  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 53.17823  
## BLK:AftLow 49.20000  
## BRN:AftHigh 54.76209  
## BRN:AftLow 49.95000  
## WHT:AftHigh 53.14193  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.00663  
## WT/BLK:AftLow 55.55000  
## WT/BR:AftHigh 57.58847  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.19394 a  
## WT/BLK:AftHigh 57.87741 a  
## BL/BR:AftLow 57.63333 a  
## WT/BR:AftHigh 57.34309 ab  
## WT/BLK:AftLow 55.33333 bc  
## BRN:AftHigh 54.63268 cd  
## WT/BR:AftLow 54.60000 cd  
## BLK:AftHigh 52.96957 d  
## WHT:AftHigh 52.81768 d  
## BRN:AftLow 49.73333 e  
## BLK:AftLow 48.90000 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT36 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 283.621 56.724 46.2145 1.524e-11 \*\*\*  
## THIregime 1 107.384 107.384 87.4881 1.783e-09 \*\*\*  
## Colour:THIregime 5 9.107 1.821 1.4839 0.232   
## Residuals 24 29.458 1.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227412   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.21735 1.387401 6 54.6 57.77142  
## BLK 50.75539 2.358162 6 48.2 53.29217  
## BRN 55.78516 2.403315 6 52.5 58.75623  
## WHT 50.31651 3.132129 6 46.1 53.81850  
## WT/BLK 57.84789 1.570379 6 55.9 59.79688  
## WT/BR 54.90699 1.910940 6 53.1 56.84363  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.977718   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.84789 a  
## BL/BR 56.21735 ab  
## BRN 55.78516 b  
## WT/BR 54.90699 b  
## BLK 50.75539 c  
## WHT 50.31651 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227412   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.03199 2.493935 18 52.2924 59.79688  
## AftLow 52.57778 3.568251 18 46.1000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7621883   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.03199 a  
## AftLow 52.57778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.227412 24 54.30488 2.040123 3.2616  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.43470 0.2938781 3 57.22984 57.77142 57.26635 57.30285  
## BL/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BLK:AftHigh 52.87744 0.3601026 3 52.64414 53.29217 52.67007 52.69600  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 57.10366 1.4564308 3 56.00731 58.75623 56.27737 56.54743  
## BRN:AftLow 54.46667 2.6652079 3 52.50000 57.50000 52.95000 53.40000  
## WHT:AftHigh 52.93302 0.7919663 3 52.29240 53.81850 52.49028 52.68816  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.19578 0.5336918 3 58.77761 59.79688 58.89522 59.01283  
## WT/BLK:AftLow 56.50000 0.6557439 3 55.90000 57.20000 56.15000 56.40000  
## WT/BR:AftHigh 56.64732 0.1722738 3 56.52129 56.84363 56.54917 56.57705  
## WT/BR:AftLow 53.16667 0.1154701 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 57.53714  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 52.99408  
## BLK:AftLow 48.85000  
## BRN:AftHigh 57.65183  
## BRN:AftLow 55.45000  
## WHT:AftHigh 53.25333  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.40486  
## WT/BLK:AftLow 56.80000  
## WT/BR:AftHigh 56.71034  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.19578 a  
## BL/BR:AftHigh 57.43470 ab  
## BRN:AftHigh 57.10366 ab  
## WT/BR:AftHigh 56.64732 ab  
## WT/BLK:AftLow 56.50000 ab  
## BL/BR:AftLow 55.00000 bc  
## BRN:AftLow 54.46667 bc  
## WT/BR:AftLow 53.16667 c  
## WHT:AftHigh 52.93302 c  
## BLK:AftHigh 52.87744 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT37 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 372.14 74.427 52.404 3.915e-12 \*\*\*  
## THIregime 1 117.92 117.918 83.026 2.927e-09 \*\*\*  
## Colour:THIregime 5 13.85 2.769 1.950 0.1231   
## Residuals 24 34.09 1.420   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.420249   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.21291 1.301992 6 56.1 59.55513  
## BLK 52.48353 1.837786 6 50.1 54.33604  
## BRN 51.28804 3.051184 6 48.2 54.38931  
## WHT 50.21166 3.028784 6 46.1 53.62249  
## WT/BLK 57.82629 2.570946 6 54.2 61.57406  
## WT/BR 56.60323 1.733358 6 54.6 58.72535  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.127411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.21291 a  
## WT/BLK 57.82629 a  
## WT/BR 56.60323 a  
## BLK 52.48353 b  
## BRN 51.28804 bc  
## WHT 50.21166 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.420249   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.24744 2.886625 18 52.06839 61.57406  
## AftLow 52.62778 4.046902 18 46.10000 58.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8198782   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.24744 a  
## AftLow 52.62778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.420249 24 54.43761 2.189189 3.508469  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.19249 0.6212086 3 58.47520 59.55513 59.01117 59.54715  
## BL/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BLK:AftHigh 54.10039 0.3969569 3 53.64209 54.33604 53.98257 54.32305  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 54.04274 0.4192389 3 53.57675 54.38931 53.86946 54.16217  
## BRN:AftLow 48.53333 0.5773503 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 52.72332 0.8053230 3 52.06839 53.62249 52.27373 52.47908  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.35259 1.9559389 3 57.88903 61.57406 58.24185 58.59467  
## WT/BLK:AftLow 56.30000 2.3895606 3 54.20000 58.90000 55.00000 55.80000  
## WT/BR:AftHigh 58.07313 0.5711196 3 57.66252 58.72535 57.74702 57.83153  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 59.55114  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 54.32954  
## BLK:AftLow 51.25000  
## BRN:AftHigh 54.27574  
## BRN:AftLow 48.70000  
## WHT:AftHigh 53.05078  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.08437  
## WT/BLK:AftLow 57.35000  
## WT/BR:AftHigh 58.27844  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.35259 a  
## BL/BR:AftHigh 59.19249 a  
## WT/BR:AftHigh 58.07313 ab  
## BL/BR:AftLow 57.23333 abc  
## WT/BLK:AftLow 56.30000 abc  
## WT/BR:AftLow 55.13333 bcd  
## BLK:AftHigh 54.10039 cde  
## BRN:AftHigh 54.04274 cde  
## WHT:AftHigh 52.72332 de  
## BLK:AftLow 50.86667 ef  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT38 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.793 46.759 32.0780 7.076e-10 \*\*\*  
## THIregime 1 106.965 106.965 73.3818 9.210e-09 \*\*\*  
## Colour:THIregime 5 5.327 1.065 0.7309 0.6073   
## Residuals 24 34.984 1.458   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.457655   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48619 1.595590 6 53.7 57.25058  
## BLK 52.52041 2.740572 6 49.1 55.96084  
## BRN 53.27497 2.067308 6 51.2 55.44802  
## WHT 50.11729 2.936528 6 46.1 53.44608  
## WT/BLK 58.29384 1.475770 6 56.3 60.03210  
## WT/BR 54.74970 2.079340 6 52.5 56.80878  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.155244   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.29384 a  
## BL/BR 55.48619 b  
## WT/BR 54.74970 bc  
## BRN 53.27497 cd  
## BLK 52.52041 d  
## WHT 50.11729 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.457655   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.79747 2.390896 18 51.86677 60.0321  
## AftLow 52.35000 3.226043 18 46.10000 57.8000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8306048   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.79747 a  
## AftLow 52.35000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.457655 24 54.07373 2.232755 3.554371  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.90571 0.3103127 3 56.64906 57.25058 56.73328 56.81749  
## BL/BR:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## BLK:AftHigh 54.07415 1.6343708 3 53.09256 55.96084 53.13080 53.16904  
## BLK:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 55.14995 0.2604520 3 54.96626 55.44802 55.00091 55.03556  
## BRN:AftLow 51.40000 0.2645751 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 52.53459 0.8173627 3 51.86677 53.44608 52.07884 52.29091  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.52101 0.6029539 3 58.85602 60.03210 59.26547 59.67492  
## WT/BLK:AftLow 57.06667 0.7505553 3 56.30000 57.80000 56.70000 57.10000  
## WT/BR:AftHigh 56.59941 0.2548074 3 56.31570 56.80878 56.49472 56.67375  
## WT/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 57.03404  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 54.56494  
## BLK:AftLow 51.90000  
## BRN:AftHigh 55.24179  
## BRN:AftLow 51.50000  
## WHT:AftHigh 52.86849  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.85351  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 56.74126  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.52101 a  
## WT/BLK:AftLow 57.06667 ab  
## BL/BR:AftHigh 56.90571 ab  
## WT/BR:AftHigh 56.59941 ab  
## BRN:AftHigh 55.14995 bc  
## BLK:AftHigh 54.07415 bcd  
## BL/BR:AftLow 54.06667 bcd  
## WT/BR:AftLow 52.90000 cd  
## WHT:AftHigh 52.53459 cd  
## BRN:AftLow 51.40000 d  
## BLK:AftLow 50.96667 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT39 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 156.119 31.224 24.4454 1.083e-08 \*\*\*  
## THIregime 1 77.322 77.322 60.5361 5.146e-08 \*\*\*  
## Colour:THIregime 5 9.770 1.954 1.5298 0.218   
## Residuals 24 30.655 1.277   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.277287   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.62166 1.076734 6 55.4 57.73595  
## BLK 54.65087 1.113815 6 53.2 55.89696  
## BRN 53.82231 2.753009 6 49.1 56.87451  
## WHT 50.15574 2.974023 6 46.1 53.51795  
## WT/BLK 55.98525 1.464918 6 54.2 57.70608  
## WT/BR 54.82413 1.606089 6 52.6 56.43418  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.017499   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.62166 a  
## WT/BLK 55.98525 a  
## WT/BR 54.82413 ab  
## BLK 54.65087 ab  
## BRN 53.82231 b  
## WHT 50.15574 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.277287   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80888 1.783460 18 51.94891 57.73595  
## AftLow 52.87778 2.894936 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7775195   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80888 a  
## AftLow 52.87778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.277287 24 54.34333 2.079687 3.327206  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.57665 0.1379570 3 57.49700 57.73595 57.49700 57.49700  
## BL/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BLK:AftHigh 55.60174 0.2810431 3 55.33742 55.89696 55.45414 55.57085  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 55.57795 1.5419043 3 53.87295 56.87451 54.92967 55.98640  
## BRN:AftLow 52.06667 2.7061658 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 52.61148 0.8124556 3 51.94891 53.51795 52.15824 52.36757  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.27050 0.3992187 3 56.92203 57.70608 57.05271 57.18338  
## WT/BLK:AftLow 54.70000 0.5000000 3 54.20000 55.20000 54.45000 54.70000  
## WT/BR:AftHigh 56.21493 0.3499969 3 55.81129 56.43418 56.10531 56.39933  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 57.61647  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 55.73390  
## BLK:AftLow 53.95000  
## BRN:AftHigh 56.43045  
## BRN:AftLow 53.55000  
## WHT:AftHigh 52.94276  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.44473  
## WT/BLK:AftLow 54.95000  
## WT/BR:AftHigh 56.41675  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.57665 a  
## WT/BLK:AftHigh 57.27050 a  
## WT/BR:AftHigh 56.21493 ab  
## BL/BR:AftLow 55.66667 abc  
## BLK:AftHigh 55.60174 abc  
## BRN:AftHigh 55.57795 abc  
## WT/BLK:AftLow 54.70000 abcd  
## BLK:AftLow 53.70000 bcd  
## WT/BR:AftLow 53.43333 bcd  
## WHT:AftHigh 52.61148 cd  
## BRN:AftLow 52.06667 d  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT40 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.584 44.317 22.4735 2.455e-08 \*\*\*  
## THIregime 1 89.747 89.747 45.5117 5.606e-07 \*\*\*  
## Colour:THIregime 5 10.613 2.123 1.0764 0.3982   
## Residuals 24 47.327 1.972   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.971962   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.31276 1.724612 6 54.2 58.88506  
## BLK 53.92398 2.106250 6 50.2 56.14898  
## BRN 54.26946 2.399865 6 50.2 56.89352  
## WHT 50.25185 3.068300 6 46.1 53.69762  
## WT/BLK 57.73034 1.519648 6 55.8 59.56167  
## WT/BR 54.05179 2.154961 6 51.3 56.41675  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.506793   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.73034 a  
## BL/BR 57.31276 a  
## BRN 54.26946 b  
## WT/BR 54.05179 b  
## BLK 53.92398 b  
## WHT 50.25185 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.971962   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.16895 2.213951 18 52.15426 59.56167  
## AftLow 53.01111 3.397211 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9660873   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.16895 a  
## AftLow 53.01111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.971962 24 54.59003 2.572385 4.134136  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.12552 1.2181877 3 56.72042 58.88506 57.74575 58.77108  
## BL/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## BLK:AftHigh 55.21463 1.1619260 3 53.91360 56.14898 54.74745 55.58130  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 55.97225 1.0938727 3 54.76328 56.89352 55.51161 56.25994  
## BRN:AftLow 52.56667 2.1221059 3 50.20000 54.30000 51.70000 53.20000  
## WHT:AftHigh 52.80370 0.8002003 3 52.15426 53.69762 52.35674 52.55923  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.02735 0.4725494 3 58.66436 59.56167 58.76019 58.85602  
## WT/BLK:AftLow 56.43333 0.7094599 3 55.80000 57.20000 56.05000 56.30000  
## WT/BR:AftHigh 55.87024 0.4753740 3 55.55256 56.41675 55.59699 55.64142  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 58.82807  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 55.86514  
## BLK:AftLow 53.85000  
## BRN:AftHigh 56.57673  
## BRN:AftLow 53.75000  
## WHT:AftHigh 53.12843  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.20884  
## WT/BLK:AftLow 56.75000  
## WT/BR:AftHigh 56.02908  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.02735 a  
## BL/BR:AftHigh 58.12552 a  
## BL/BR:AftLow 56.50000 ab  
## WT/BLK:AftLow 56.43333 ab  
## BRN:AftHigh 55.97225 abc  
## WT/BR:AftHigh 55.87024 abc  
## BLK:AftHigh 55.21463 abc  
## WHT:AftHigh 52.80370 bc  
## BLK:AftLow 52.63333 bc  
## BRN:AftLow 52.56667 bc  
## WT/BR:AftLow 52.23333 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT41 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 318.75 63.750 52.3542 3.956e-12 \*\*\*  
## THIregime 1 116.80 116.802 95.9221 7.370e-10 \*\*\*  
## Colour:THIregime 5 8.70 1.740 1.4292 0.2498   
## Residuals 24 29.22 1.218   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.217677   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.75829 1.525419 6 54.7 58.34825  
## BLK 50.73042 2.420967 6 48.1 53.40252  
## BRN 54.73788 2.600214 6 50.2 57.38201  
## WHT 50.34971 3.165026 6 46.1 53.88057  
## WT/BLK 58.26770 1.497646 6 56.1 59.97983  
## WT/BR 56.03016 1.932903 6 53.6 58.17651  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.969859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.26770 a  
## BL/BR 56.75829 ab  
## WT/BR 56.03016 bc  
## BRN 54.73788 c  
## BLK 50.73042 d  
## WHT 50.34971 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.217677   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28028 2.661122 18 52.36334 59.97983  
## AftLow 52.67778 3.728200 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7591595   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28028 a  
## AftLow 52.67778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.217677 24 54.47903 2.02552 3.248639  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.08324 0.3707052 3 57.65962 58.34825 57.95073 58.24185  
## BL/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 52.89418 0.4402490 3 52.63589 53.40252 52.64002 52.64414  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 56.50910 1.3220591 3 54.98804 57.38201 56.07264 57.15725  
## BRN:AftLow 52.96667 2.3965253 3 50.20000 54.40000 52.25000 54.30000  
## WHT:AftHigh 52.99943 0.7877414 3 52.36334 53.88057 52.55885 52.75437  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.46874 0.7187169 3 58.64694 59.97983 59.21320 59.77946  
## WT/BLK:AftLow 57.06667 0.8736895 3 56.10000 57.80000 56.70000 57.30000  
## WT/BR:AftHigh 57.72699 0.5378479 3 57.13111 58.17651 57.50223 57.87334  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 58.29505  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 53.02333  
## BLK:AftLow 48.80000  
## BRN:AftHigh 57.26963  
## BRN:AftLow 54.35000  
## WHT:AftHigh 53.31747  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.87964  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 58.02493  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.46874 a  
## BL/BR:AftHigh 58.08324 ab  
## WT/BR:AftHigh 57.72699 ab  
## WT/BLK:AftLow 57.06667 abc  
## BRN:AftHigh 56.50910 abc  
## BL/BR:AftLow 55.43333 bcd  
## WT/BR:AftLow 54.33333 cd  
## WHT:AftHigh 52.99943 d  
## BRN:AftLow 52.96667 d  
## BLK:AftHigh 52.89418 d  
## BLK:AftLow 48.56667 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT42 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 316.56 63.311 82.4947 2.562e-14 \*\*\*  
## THIregime 1 117.19 117.187 152.6951 6.796e-12 \*\*\*  
## Colour:THIregime 5 7.25 1.449 1.8881 0.1339   
## Residuals 24 18.42 0.767   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7674568   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.12992 1.462744 6 54.6 57.53434  
## BLK 51.04519 1.912824 6 49.2 52.80432  
## BRN 51.04275 2.795197 6 48.1 53.95690  
## WHT 50.00720 2.829896 6 46.1 53.24026  
## WT/BLK 57.51071 2.030796 6 54.8 60.42412  
## WT/BR 55.85619 1.681102 6 53.7 57.57018  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.563854   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.51071 a  
## BL/BR 56.12992 ab  
## WT/BR 55.85619 b  
## BLK 51.04519 c  
## BRN 51.04275 c  
## WHT 50.00720 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7674568   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.40287 2.727316 18 51.63156 60.42412  
## AftLow 51.79444 3.562628 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6026901   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.40287 a  
## AftLow 51.79444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7674568 24 53.59866 1.634455 2.579066  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.45984 0.11402214 3 57.32857 57.53434 57.42259 57.51660  
## BL/BR:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 52.79038 0.01264583 3 52.77963 52.80432 52.78342 52.78720  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 53.55217 0.44487815 3 53.07583 53.95690 53.34981 53.62379  
## BRN:AftLow 48.53333 0.66583281 3 48.10000 49.30000 48.15000 48.20000  
## WHT:AftHigh 52.31440 0.83143048 3 51.63156 53.24026 51.85147 52.07137  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.95475 1.28109889 3 58.07197 60.42412 58.22007 58.36817  
## WT/BLK:AftLow 56.06667 1.55349069 3 54.80000 57.80000 55.20000 55.60000  
## WT/BR:AftHigh 57.34571 0.25673613 3 57.06577 57.57018 57.23347 57.40117  
## WT/BR:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 57.52547  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 52.79576  
## BLK:AftLow 49.35000  
## BRN:AftHigh 53.79034  
## BRN:AftLow 48.75000  
## WHT:AftHigh 52.65582  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.39614  
## WT/BLK:AftLow 56.70000  
## WT/BR:AftHigh 57.48567  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.95475 a  
## BL/BR:AftHigh 57.45984 ab  
## WT/BR:AftHigh 57.34571 abc  
## WT/BLK:AftLow 56.06667 bcd  
## BL/BR:AftLow 54.80000 cde  
## WT/BR:AftLow 54.36667 de  
## BRN:AftHigh 53.55217 de  
## BLK:AftHigh 52.79038 e  
## WHT:AftHigh 52.31440 e  
## BLK:AftLow 49.30000 f  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT43 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 371.55 74.310 140.8136 < 2.2e-16 \*\*\*  
## THIregime 1 118.70 118.695 224.9221 1.09e-13 \*\*\*  
## Colour:THIregime 5 12.42 2.483 4.7053 0.003896 \*\*   
## Residuals 24 12.67 0.528   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5277163   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.03109 1.360856 6 56.3 59.61767  
## BLK 51.98436 1.993385 6 50.1 53.87111  
## BRN 51.84182 2.898122 6 49.1 54.71624  
## WHT 50.22564 3.042514 6 46.1 53.64862  
## WT/BLK 58.13065 1.516642 6 56.1 60.00596  
## WT/BR 56.64784 1.724352 6 54.7 58.41695  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.296789   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.13065 a  
## BL/BR 58.03109 a  
## WT/BR 56.64784 b  
## BLK 51.98436 c  
## BRN 51.84182 c  
## WHT 50.22564 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5277163   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.29269 2.791857 18 52.09826 60.00596  
## AftLow 52.66111 3.941654 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4997667   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.29269 a  
## AftLow 52.66111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5277163 24 54.4769 1.333484 2.13863  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.16217 0.40218727 3 58.85602 59.61767 58.93443 59.01283  
## BL/BR:AftLow 56.90000 0.79372539 3 56.30000 57.80000 56.45000 56.60000  
## BLK:AftHigh 53.80206 0.09249553 3 53.69697 53.87111 53.76754 53.83810  
## BLK:AftLow 50.16667 0.11547005 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 54.48363 0.22401522 3 54.26933 54.71624 54.36733 54.46534  
## BRN:AftLow 49.20000 0.10000000 3 49.10000 49.30000 49.15000 49.20000  
## WHT:AftHigh 52.75128 0.80354079 3 52.09826 53.64862 52.30261 52.50696  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.36130 0.60582110 3 58.80375 60.00596 59.03897 59.27418  
## WT/BLK:AftLow 56.90000 0.91651514 3 56.10000 57.90000 56.40000 56.70000  
## WT/BR:AftHigh 58.19568 0.29338017 3 57.86289 58.41695 58.08504 58.30719  
## WT/BR:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 59.31525  
## BL/BR:AftLow 57.20000  
## BLK:AftHigh 53.85461  
## BLK:AftLow 50.20000  
## BRN:AftHigh 54.59079  
## BRN:AftLow 49.25000  
## WHT:AftHigh 53.07779  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.64007  
## WT/BLK:AftLow 57.30000  
## WT/BR:AftHigh 58.36207  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BL/BR:AftHigh 59.16217 a  
## WT/BR:AftHigh 58.19568 ab  
## BL/BR:AftLow 56.90000 bc  
## WT/BLK:AftLow 56.90000 bc  
## WT/BR:AftLow 55.10000 cd  
## BRN:AftHigh 54.48363 de  
## BLK:AftHigh 53.80206 de  
## WHT:AftHigh 52.75128 e  
## BLK:AftLow 50.16667 f  
## BRN:AftLow 49.20000 fg  
## WHT:AftLow 47.70000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT44 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 225.336 45.067 21.0846 4.525e-08 \*\*\*  
## THIregime 1 90.769 90.769 42.4660 9.703e-07 \*\*\*  
## Colour:THIregime 5 12.783 2.557 1.1961 0.3408   
## Residuals 24 51.299 2.137   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.137449   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.83539 1.687378 6 54.8 59.40195  
## BLK 53.23720 2.249643 6 49.4 55.65884  
## BRN 53.89152 3.071881 6 50.1 57.90471  
## WHT 50.32700 3.142509 6 46.1 53.83810  
## WT/BLK 55.84819 1.518513 6 53.9 57.60154  
## WT/BR 56.82131 1.201789 6 55.3 58.07197  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.609859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.83539 a  
## WT/BR 56.82131 a  
## WT/BLK 55.84819 ab  
## BRN 53.89152 bc  
## BLK 53.23720 c  
## WHT 50.32700 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.137449   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.24798 2.178797 18 52.3148 59.40195  
## AftLow 53.07222 3.503915 18 46.1000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.005808   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.24798 a  
## AftLow 53.07222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.137449 24 54.6601 2.674714 4.304109  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.73744 1.1196707 3 57.44473 59.40195 58.40519 59.36565  
## BL/BR:AftLow 56.93333 1.8502252 3 54.80000 58.10000 56.35000 57.90000  
## BLK:AftHigh 54.80774 1.1131698 3 53.54800 55.65884 54.38219 55.21638  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 55.94970 1.6939391 3 54.91835 57.90471 54.97220 55.02605  
## BRN:AftLow 51.83333 2.8307832 3 50.10000 55.10000 50.20000 50.30000  
## WHT:AftHigh 52.95399 0.7906319 3 52.31480 53.83810 52.51194 52.70907  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.16305 0.4634683 3 56.67810 57.60154 56.94381 57.20952  
## WT/BLK:AftLow 54.53333 0.6027714 3 53.90000 55.10000 54.25000 54.60000  
## WT/BR:AftHigh 57.87596 0.3171394 3 57.51007 58.07197 57.77795 58.04584  
## WT/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 59.38380  
## BL/BR:AftLow 58.00000  
## BLK:AftHigh 55.43761  
## BLK:AftLow 52.80000  
## BRN:AftHigh 56.46538  
## BRN:AftLow 52.70000  
## WHT:AftHigh 53.27358  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.40553  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 58.05890  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.73744 a  
## WT/BR:AftHigh 57.87596 a  
## WT/BLK:AftHigh 57.16305 ab  
## BL/BR:AftLow 56.93333 ab  
## BRN:AftHigh 55.94970 abc  
## WT/BR:AftLow 55.76667 abc  
## BLK:AftHigh 54.80774 abc  
## WT/BLK:AftLow 54.53333 abc  
## WHT:AftHigh 52.95399 bc  
## BRN:AftLow 51.83333 cd  
## BLK:AftLow 51.66667 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT45 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 182.661 36.532 44.6716 2.193e-11 \*\*\*  
## THIregime 1 82.719 82.719 101.1492 4.396e-10 \*\*\*  
## Colour:THIregime 5 9.763 1.953 2.3876 0.06816 .   
## Residuals 24 19.627 0.818   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8177951   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.47946 1.427052 6 54.8 58.14664  
## BLK 55.36521 1.200136 6 53.3 56.56164  
## BRN 54.57480 1.865458 6 52.4 56.44115  
## WHT 50.23787 3.054541 6 46.1 53.67149  
## WT/BLK 57.24513 1.466926 6 55.5 58.75148  
## WT/BR 55.52589 1.995753 6 52.7 57.90645  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.614327   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.24513 a  
## BL/BR 56.47946 ab  
## WT/BR 55.52589 bc  
## BLK 55.36521 bc  
## BRN 54.57480 c  
## WHT 50.23787 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8177951   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.42056 1.934415 18 52.12439 58.75148  
## AftLow 53.38889 2.954934 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6221417   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.42056 a  
## AftLow 53.38889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8177951 24 54.90472 1.647072 2.662304  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.69225 0.3940375 3 57.44473 58.14664 57.46506 57.48538  
## BL/BR:AftLow 55.26667 0.7234178 3 54.80000 56.10000 54.85000 54.90000  
## BLK:AftHigh 56.23042 0.5244655 3 55.62573 56.56164 56.06480 56.50387  
## BLK:AftLow 54.50000 1.0392305 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 56.24959 0.3082163 3 55.89405 56.44115 56.15382 56.41359  
## BRN:AftLow 52.90000 0.4358899 3 52.40000 53.20000 52.75000 53.10000  
## WHT:AftHigh 52.77574 0.8019817 3 52.12439 53.67149 52.32787 52.53135  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.55692 0.2719287 3 58.24620 58.75148 58.45964 58.67308  
## WT/BLK:AftLow 55.93333 0.3785939 3 55.50000 56.20000 55.80000 56.10000  
## WT/BR:AftHigh 57.01844 0.8550408 3 56.20070 57.90645 56.57443 56.94817  
## WT/BR:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 57.81601  
## BL/BR:AftLow 55.50000  
## BLK:AftHigh 56.53276  
## BLK:AftLow 55.10000  
## BRN:AftHigh 56.42737  
## BRN:AftLow 53.15000  
## WHT:AftHigh 53.10142  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.71228  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.42731  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.55692 a  
## BL/BR:AftHigh 57.69225 ab  
## WT/BR:AftHigh 57.01844 abc  
## BRN:AftHigh 56.24959 abcd  
## BLK:AftHigh 56.23042 abcd  
## WT/BLK:AftLow 55.93333 abcd  
## BL/BR:AftLow 55.26667 bcde  
## BLK:AftLow 54.50000 cde  
## WT/BR:AftLow 54.03333 de  
## BRN:AftLow 52.90000 e  
## WHT:AftHigh 52.77574 e  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT46 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 191.359 38.272 18.1667 1.827e-07 \*\*\*  
## THIregime 1 82.186 82.186 39.0119 1.867e-06 \*\*\*  
## Colour:THIregime 5 9.375 1.875 0.8901 0.5032   
## Residuals 24 50.561 2.107   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.106696   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91304 1.434407 6 54.6 58.60048  
## BLK 53.06228 2.271109 6 50.2 55.88708  
## BRN 55.29173 2.294138 6 51.2 57.47522  
## WHT 50.28331 3.099313 6 46.1 53.75643  
## WT/BLK 56.58562 1.888300 6 54.2 59.16964  
## WT/BR 55.66303 1.665689 6 53.2 57.38375  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.591016   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.91304 a  
## WT/BLK 56.58562 a  
## WT/BR 55.66303 a  
## BRN 55.29173 ab  
## BLK 53.06228 b  
## WHT 50.28331 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.106696   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.14411 2.064602 18 52.22146 59.16964  
## AftLow 53.12222 3.243374 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9985457   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.14411 a  
## AftLow 53.12222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.106696 24 54.63317 2.656712 4.273034  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.95941 0.7041284 3 57.20578 58.60048 57.63888 58.07197  
## BL/BR:AftLow 55.86667 1.1676187 3 54.60000 56.90000 55.35000 56.10000  
## BLK:AftHigh 54.52456 1.1832380 3 53.75557 55.88708 53.84330 53.93102  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 56.78346 1.1882308 3 55.41143 57.47522 56.43758 57.46374  
## BRN:AftLow 53.80000 2.2516660 3 51.20000 55.10000 53.15000 55.10000  
## WHT:AftHigh 52.86661 0.7961935 3 52.22146 53.75643 52.42171 52.62195  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.67123 1.3070984 3 56.76522 59.16964 56.92203 57.07884  
## WT/BLK:AftLow 55.50000 1.9157244 3 54.20000 57.70000 54.40000 54.60000  
## WT/BR:AftHigh 57.05938 0.4727685 3 56.51694 57.38375 56.89720 57.27747  
## WT/BR:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 58.33622  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 54.90905  
## BLK:AftLow 52.30000  
## BRN:AftHigh 57.46948  
## BRN:AftLow 55.10000  
## WHT:AftHigh 53.18919  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.12424  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.33061  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.95941 a  
## WT/BLK:AftHigh 57.67123 a  
## WT/BR:AftHigh 57.05938 ab  
## BRN:AftHigh 56.78346 ab  
## BL/BR:AftLow 55.86667 abc  
## WT/BLK:AftLow 55.50000 abc  
## BLK:AftHigh 54.52456 abc  
## WT/BR:AftLow 54.26667 abc  
## BRN:AftLow 53.80000 abc  
## WHT:AftHigh 52.86661 bc  
## BLK:AftLow 51.60000 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT47 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 188.531 37.706 27.0288 4.008e-09 \*\*\*  
## THIregime 1 86.167 86.167 61.7666 4.315e-08 \*\*\*  
## Colour:THIregime 5 10.232 2.046 1.4669 0.2374   
## Residuals 24 33.481 1.395   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.395035   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51471 1.179693 6 54.9 57.76416  
## BLK 53.44649 2.323729 6 49.2 55.64829  
## BRN 52.11340 2.384058 6 49.3 54.47960  
## WHT 50.08759 2.907644 6 46.1 53.39054  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 54.97638 1.630163 6 53.2 56.63455  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.108442   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.51471 a  
## WT/BLK 56.24402 a  
## WT/BR 54.97638 ab  
## BLK 53.44649 bc  
## BRN 52.11340 cd  
## WHT 50.08759 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.395035   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.4442 1.996451 18 51.8033 57.93258  
## AftLow 52.3500 3.110561 18 46.1000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8125677   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.4442 a  
## AftLow 52.3500 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.395035 24 53.8971 2.191427 3.477186  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.52943 0.3467818 3 57.13111 57.76416 57.41206 57.69301  
## BL/BR:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 54.59298 1.4649088 3 52.92047 55.64829 54.06533 55.21019  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 54.26014 0.2013995 3 54.08377 54.47960 54.15041 54.21706  
## BRN:AftLow 49.96667 0.5859465 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 52.47517 0.8211566 3 51.80330 53.39054 52.01749 52.23167  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.35471 0.9634305 3 56.24252 57.93258 57.06577 57.88903  
## WT/BLK:AftLow 55.13333 1.1590226 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 56.45276 0.1856737 3 56.26343 56.63455 56.36187 56.46031  
## WT/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 57.72859  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 55.42924  
## BLK:AftLow 53.85000  
## BRN:AftHigh 54.34833  
## BRN:AftLow 50.30000  
## WHT:AftHigh 52.81110  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.91080  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 56.54743  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.52943 a  
## WT/BLK:AftHigh 57.35471 a  
## WT/BR:AftHigh 56.45276 ab  
## BL/BR:AftLow 55.50000 abc  
## WT/BLK:AftLow 55.13333 abc  
## BLK:AftHigh 54.59298 abc  
## BRN:AftHigh 54.26014 abc  
## WT/BR:AftLow 53.50000 bc  
## WHT:AftHigh 52.47517 cd  
## BLK:AftLow 52.30000 cd  
## BRN:AftLow 49.96667 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT48 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.736 51.147 32.8895 5.474e-10 \*\*\*  
## THIregime 1 106.995 106.995 68.8019 1.654e-08 \*\*\*  
## Colour:THIregime 5 7.298 1.460 0.9386 0.474   
## Residuals 24 37.323 1.555   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.555119   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.52388 1.277928 6 54.7 57.81809  
## BLK 50.61552 2.211105 6 48.3 52.95226  
## BRN 52.66268 3.131078 6 48.5 56.49516  
## WHT 50.12254 2.941634 6 46.1 53.45588  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 55.16077 1.639490 6 53.6 56.79136  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.226132   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## BL/BR 56.52388 a  
## WT/BR 55.16077 a  
## BRN 52.66268 b  
## BLK 50.61552 bc  
## WHT 50.12254 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.555119   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.35906 2.406103 18 51.87798 58.85602  
## AftLow 51.91111 3.446548 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.857924   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.35906 a  
## AftLow 51.91111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.555119 24 53.63508 2.325053 3.671278  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.61443 0.31861039 3 57.24727 57.81809 57.51261 57.77795  
## BL/BR:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 52.59770 0.31933571 3 52.33272 52.95226 52.42042 52.50812  
## BLK:AftLow 48.63333 0.57735027 3 48.30000 49.30000 48.30000 48.30000  
## BRN:AftHigh 54.65869 1.59173431 3 53.67606 56.49516 53.74045 53.80484  
## BRN:AftLow 50.66667 3.16596483 3 48.50000 54.30000 48.85000 49.20000  
## WHT:AftHigh 52.54507 0.81669340 3 51.87798 53.45588 52.08967 52.30136  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.08359 0.67172166 3 57.63639 58.85602 57.69737 57.75835  
## WT/BLK:AftLow 55.36667 0.80829038 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 56.65487 0.13947738 3 56.51258 56.79136 56.58663 56.66068  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 57.79802  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 52.73019  
## BLK:AftLow 48.80000  
## BRN:AftHigh 55.15000  
## BRN:AftLow 51.75000  
## WHT:AftHigh 52.87862  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.30719  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 56.72602  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## BL/BR:AftHigh 57.61443 a  
## WT/BR:AftHigh 56.65487 ab  
## BL/BR:AftLow 55.43333 abc  
## WT/BLK:AftLow 55.36667 abc  
## BRN:AftHigh 54.65869 abc  
## WT/BR:AftLow 53.66667 bcd  
## BLK:AftHigh 52.59770 cd  
## WHT:AftHigh 52.54507 cd  
## BRN:AftLow 50.66667 de  
## BLK:AftLow 48.63333 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT49 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 279.655 55.931 74.1107 8.533e-14 \*\*\*  
## THIregime 1 101.322 101.322 134.2556 2.572e-11 \*\*\*  
## Colour:THIregime 5 10.454 2.091 2.7704 0.04107 \*   
## Residuals 24 18.113 0.755   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7546951   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.15303 1.488119 6 54.6 57.58661  
## BLK 53.87686 1.505029 6 51.3 55.51945  
## BRN 51.32693 2.773525 6 48.3 54.33704  
## WHT 49.99671 2.819801 6 46.1 53.22066  
## WT/BLK 58.06973 1.522321 6 56.1 59.97983  
## WT/BR 55.54262 1.880674 6 53.7 57.49700  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.550797   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.06973 a  
## BL/BR 56.15303 b  
## WT/BR 55.54262 b  
## BLK 53.87686 c  
## BRN 51.32693 d  
## WHT 49.99671 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7546951   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.83863 2.515090 18 51.60916 59.97983  
## AftLow 52.48333 3.435841 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5976581   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.83863 a  
## AftLow 52.48333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7546951 24 54.16098 1.603981 2.557533  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.50606 0.1191166 3 57.36923 57.58661 57.46578 57.56234  
## BL/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 54.88705 0.7469929 3 54.06286 55.51945 54.57084 55.07882  
## BLK:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## BRN:AftHigh 53.78720 0.5186626 3 53.30669 54.33704 53.51228 53.71788  
## BRN:AftLow 48.86667 0.8962886 3 48.30000 49.90000 48.35000 48.40000  
## WHT:AftHigh 52.29343 0.8327714 3 51.60916 53.22066 51.82981 52.05047  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.30612 0.6665611 3 58.64694 59.97983 58.96927 59.29160  
## WT/BLK:AftLow 56.83333 0.8736895 3 56.10000 57.80000 56.35000 56.60000  
## WT/BR:AftHigh 57.25191 0.2529766 3 56.99172 57.49700 57.12937 57.26701  
## WT/BR:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 57.57447  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 55.29914  
## BLK:AftLow 53.65000  
## BRN:AftHigh 54.02746  
## BRN:AftLow 49.15000  
## WHT:AftHigh 52.63556  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.63571  
## WT/BLK:AftLow 57.20000  
## WT/BR:AftHigh 57.38201  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.30612 a  
## BL/BR:AftHigh 57.50606 a  
## WT/BR:AftHigh 57.25191 ab  
## WT/BLK:AftLow 56.83333 ab  
## BLK:AftHigh 54.88705 bc  
## BL/BR:AftLow 54.80000 bcd  
## WT/BR:AftLow 53.83333 cd  
## BRN:AftHigh 53.78720 cd  
## BLK:AftLow 52.86667 cd  
## WHT:AftHigh 52.29343 d  
## BRN:AftLow 48.86667 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT50 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 273.289 54.658 17.9162 2.075e-07 \*\*\*  
## THIregime 1 103.523 103.523 33.9335 5.244e-06 \*\*\*  
## Colour:THIregime 5 9.115 1.823 0.5975 0.7021   
## Residuals 24 73.218 3.051   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.050747   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.24782 1.865883 6 53.9 59.15222  
## BLK 52.09504 3.136154 6 48.3 56.05377  
## BRN 54.83122 1.906666 6 52.4 56.98998  
## WHT 50.22389 3.040797 6 46.1 53.64535  
## WT/BLK 58.21776 2.016989 6 54.8 60.42412  
## WT/BR 54.52554 2.627551 6 51.4 58.11117  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.117972   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.21776 a  
## BL/BR 57.24782 ab  
## BRN 54.83122 bc  
## WT/BR 54.52554 bc  
## BLK 52.09504 cd  
## WHT 50.22389 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.050747   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.21931 2.617430 18 52.09452 60.42412  
## AftLow 52.82778 3.750734 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.201628   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.21931 a  
## AftLow 52.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.050747 24 54.52355 3.203458 5.142076  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.16230 1.2773487 3 56.72042 59.15222 57.66734 58.61427  
## BL/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 53.89008 1.8740642 3 52.77702 56.05377 52.80824 52.83947  
## BLK:AftLow 50.30000 3.3778692 3 48.30000 54.20000 48.35000 48.40000  
## BRN:AftHigh 56.49577 0.4614393 3 56.07621 56.98998 56.24866 56.42111  
## BRN:AftLow 53.16667 0.7505553 3 52.40000 53.90000 52.80000 53.20000  
## WHT:AftHigh 52.74778 0.8037635 3 52.09452 53.64535 52.29900 52.50347  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.53553 1.2771434 3 58.07197 60.42412 59.09124 60.11050  
## WT/BLK:AftLow 56.90000 1.8248288 3 54.80000 58.10000 56.30000 57.80000  
## WT/BR:AftHigh 56.48441 1.4160402 3 55.52816 58.11117 55.67103 55.81391  
## WT/BR:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 58.88324  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 54.44662  
## BLK:AftLow 51.30000  
## BRN:AftHigh 56.70555  
## BRN:AftLow 53.55000  
## WHT:AftHigh 53.07441  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.26731  
## WT/BLK:AftLow 57.95000  
## WT/BR:AftHigh 56.96254  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.53553 a  
## BL/BR:AftHigh 58.16230 ab  
## WT/BLK:AftLow 56.90000 abc  
## BRN:AftHigh 56.49577 abc  
## WT/BR:AftHigh 56.48441 abc  
## BL/BR:AftLow 56.33333 abc  
## BLK:AftHigh 53.89008 bcd  
## BRN:AftLow 53.16667 bcd  
## WHT:AftHigh 52.74778 cde  
## WT/BR:AftLow 52.56667 cde  
## BLK:AftLow 50.30000 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT51 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 217.010 43.402 43.5738 2.861e-11 \*\*\*  
## THIregime 1 95.635 95.635 96.0139 7.302e-10 \*\*\*  
## Colour:THIregime 5 10.851 2.170 2.1787 0.09027 .   
## Residuals 24 23.905 0.996   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9960559   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48783 1.8788475 6 53.1 57.66874  
## BLK 55.10532 0.9199788 6 54.2 56.00208  
## BRN 52.86447 2.7468072 6 49.2 56.35751  
## WHT 50.20292 3.0202110 6 46.1 53.60615  
## WT/BLK 57.25390 1.7025530 6 54.8 59.27418  
## WT/BR 56.99822 1.4616857 6 55.2 58.55547  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.781603   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.25390 a  
## WT/BR 56.99822 a  
## BL/BR 55.48783 ab  
## BLK 55.10532 b  
## BRN 52.86447 c  
## WHT 50.20292 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9960559   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28200 2.179242 18 52.04972 59.27418  
## AftLow 53.02222 3.171853 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6866081   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28200 a  
## AftLow 53.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9960559 24 54.65211 1.826144 2.938172  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.10899 0.54531186 3 56.57937 57.66874 56.82911 57.07884  
## BL/BR:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 55.94397 0.05059879 3 55.90964 56.00208 55.91492 55.92019  
## BLK:AftLow 54.26667 0.05773503 3 54.20000 54.30000 54.25000 54.30000  
## BRN:AftHigh 54.99562 1.23034453 3 53.96442 56.35751 54.31467 54.66492  
## BRN:AftLow 50.73333 1.92959409 3 49.20000 52.90000 49.65000 50.10000  
## WHT:AftHigh 52.70584 0.80643703 3 52.04972 53.60615 52.25569 52.46166  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.64113 0.72810635 3 57.84547 59.27418 58.32461 58.80375  
## WT/BLK:AftLow 55.86667 0.97125349 3 54.80000 56.70000 55.45000 56.10000  
## WT/BR:AftHigh 58.29644 0.27419801 3 58.00925 58.55547 58.16693 58.32461  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.37379  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 55.96113  
## BLK:AftLow 54.30000  
## BRN:AftHigh 55.51122  
## BRN:AftLow 51.50000  
## WHT:AftHigh 53.03390  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.03897  
## WT/BLK:AftLow 56.40000  
## WT/BR:AftHigh 58.44004  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.64113 a  
## WT/BR:AftHigh 58.29644 ab  
## BL/BR:AftHigh 57.10899 abc  
## BLK:AftHigh 55.94397 abcd  
## WT/BLK:AftLow 55.86667 abcd  
## WT/BR:AftLow 55.70000 bcd  
## BRN:AftHigh 54.99562 cde  
## BLK:AftLow 54.26667 cde  
## BL/BR:AftLow 53.86667 de  
## WHT:AftHigh 52.70584 ef  
## BRN:AftLow 50.73333 f  
## WHT:AftLow 47.70000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT52 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.894 61.779 77.6514 5.059e-14 \*\*\*  
## THIregime 1 97.709 97.709 122.8132 6.371e-11 \*\*\*  
## Colour:THIregime 5 16.227 3.245 4.0792 0.008028 \*\*   
## Residuals 24 19.094 0.796   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7955926   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.38618 0.8952747 6 57.1 59.49488  
## BLK 50.78210 2.4686093 6 48.4 53.24280  
## BRN 55.51479 1.8230124 6 53.2 57.37678  
## WHT 50.44233 3.2571934 6 46.1 54.05371  
## WT/BLK 56.47040 1.4401588 6 54.6 58.21136  
## WT/BR 55.58901 1.9245305 6 52.8 57.94130  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.592262   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.38618 a  
## WT/BLK 56.47040 b  
## WT/BR 55.58901 b  
## BRN 55.51479 b  
## BLK 50.78210 c  
## WHT 50.44233 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7955926   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.17827 2.396940 18 52.56122 59.49488  
## AftLow 52.88333 3.808234 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6136383   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.17827 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7955926 24 54.5308 1.635699 2.625916  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.10569 0.4328715 3 58.63947 59.49488 58.91109 59.18271  
## BL/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 53.03086 0.2023354 3 52.83974 53.24280 52.92489 53.01003  
## BLK:AftLow 48.53333 0.1527525 3 48.40000 48.70000 48.45000 48.50000  
## BRN:AftHigh 57.12958 0.3402949 3 56.74146 57.37678 57.00598 57.27050  
## BRN:AftLow 53.90000 0.6082763 3 53.20000 54.30000 53.70000 54.20000  
## WHT:AftHigh 53.18466 0.7759687 3 52.56122 54.05371 52.75014 52.93906  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.67414 0.5048509 3 57.20952 58.21136 57.40553 57.60154  
## WT/BLK:AftLow 55.26667 0.7637626 3 54.60000 56.10000 54.85000 55.10000  
## WT/BR:AftHigh 56.94468 0.9394990 3 56.07526 57.94130 56.44637 56.81749  
## WT/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 59.33879  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 53.12642  
## BLK:AftLow 48.60000  
## BRN:AftHigh 57.32364  
## BRN:AftLow 54.25000  
## WHT:AftHigh 53.49638  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.90645  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 57.37939  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.10569 a  
## WT/BLK:AftHigh 57.67414 ab  
## BL/BR:AftLow 57.66667 ab  
## BRN:AftHigh 57.12958 ab  
## WT/BR:AftHigh 56.94468 ab  
## WT/BLK:AftLow 55.26667 bc  
## WT/BR:AftLow 54.23333 c  
## BRN:AftLow 53.90000 c  
## WHT:AftHigh 53.18466 c  
## BLK:AftHigh 53.03086 c  
## BLK:AftLow 48.53333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT53 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 230.016 46.003 36.3663 1.931e-10 \*\*\*  
## THIregime 1 94.601 94.601 74.7840 7.742e-09 \*\*\*  
## Colour:THIregime 5 8.892 1.778 1.4058 0.2577   
## Residuals 24 30.360 1.265   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.264995   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.46633 1.350548 6 54.8 58.21136  
## BLK 51.22692 1.825242 6 49.3 52.95501  
## BRN 51.72400 2.635465 6 48.1 54.52284  
## WHT 49.95303 2.777857 6 46.1 53.13899  
## WT/BLK 55.94592 1.462462 6 53.8 57.82804  
## WT/BR 55.14346 2.194126 6 51.6 57.88903  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.007768   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.46633 a  
## WT/BLK 55.94592 a  
## WT/BR 55.14346 a  
## BRN 51.72400 b  
## BLK 51.22692 b  
## WHT 49.95303 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.264995   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03100 2.254802 18 51.51582 58.21136  
## AftLow 51.78889 3.279507 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7737692   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03100 a  
## AftLow 51.78889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.264995 24 53.40994 2.105825 3.311158  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.46599 0.64702674 3 57.04897 58.21136 57.09331 57.13764  
## BL/BR:AftLow 55.46667 1.06926766 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 52.88717 0.07835123 3 52.80141 52.95501 52.85325 52.90508  
## BLK:AftLow 49.56667 0.23094011 3 49.30000 49.70000 49.50000 49.70000  
## BRN:AftHigh 53.98134 0.82106270 3 53.03663 54.52284 53.71059 54.38456  
## BRN:AftLow 49.46667 1.18462371 3 48.10000 50.20000 49.10000 50.10000  
## WHT:AftHigh 52.20605 0.83836083 3 51.51582 53.13899 51.73958 51.96335  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.05851 0.79378216 3 56.24252 57.82804 56.67375 57.10498  
## WT/BLK:AftLow 54.83333 1.00166528 3 53.80000 55.80000 54.35000 54.90000  
## WT/BR:AftHigh 56.58692 1.25488688 3 55.38529 57.88903 55.93587 56.48645  
## WT/BR:AftLow 53.70000 2.05182845 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 57.67450  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 52.93005  
## BLK:AftLow 49.70000  
## BRN:AftHigh 54.45370  
## BRN:AftLow 50.15000  
## WHT:AftHigh 52.55117  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.46651  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 57.18774  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.46599 a  
## WT/BLK:AftHigh 57.05851 ab  
## WT/BR:AftHigh 56.58692 abc  
## BL/BR:AftLow 55.46667 abcd  
## WT/BLK:AftLow 54.83333 abcd  
## BRN:AftHigh 53.98134 bcd  
## WT/BR:AftLow 53.70000 cd  
## BLK:AftHigh 52.88717 d  
## WHT:AftHigh 52.20605 de  
## BLK:AftLow 49.56667 ef  
## BRN:AftLow 49.46667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT54 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 193.229 38.646 17.2909 2.871e-07 \*\*\*  
## THIregime 1 79.012 79.012 35.3516 3.894e-06 \*\*\*  
## Colour:THIregime 5 10.347 2.069 0.9259 0.4815   
## Residuals 24 53.641 2.235   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.235032   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.81696 1.809840 6 53.1 56.54867  
## BLK 55.16304 2.084070 6 52.4 57.50000  
## BRN 52.73753 2.978253 6 48.4 56.34706  
## WHT 50.00545 2.828213 6 46.1 53.23700  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 56.85520 1.312770 6 55.2 58.28976  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.668769   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.85520 a  
## WT/BLK 56.24402 a  
## BLK 55.16304 ab  
## BL/BR 54.81696 ab  
## BRN 52.73753 b  
## WHT 50.00545 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.235032   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.78518 2.104691 18 51.62783 58.28976  
## AftLow 52.82222 3.271185 18 46.10000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.028511   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.78518 a  
## AftLow 52.82222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.235032 24 54.3037 2.753039 4.401263  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.46726 0.07091625 3 56.41893 56.54867 56.42655 56.43418  
## BL/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## BLK:AftHigh 55.89274 1.39915599 3 54.83646 57.47958 55.09932 55.36218  
## BLK:AftLow 54.43333 2.70246801 3 52.40000 57.50000 52.90000 53.40000  
## BRN:AftHigh 54.67505 1.47747815 3 53.54539 56.34706 53.83905 54.13271  
## BRN:AftLow 50.80000 2.95465734 3 48.40000 54.10000 49.15000 49.90000  
## WHT:AftHigh 52.31090 0.83165396 3 51.62783 53.23700 51.84786 52.06789  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.35471 0.96343051 3 56.24252 57.93258 57.06577 57.88903  
## WT/BLK:AftLow 55.13333 1.15902258 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 58.01041 0.30810412 3 57.67995 58.28976 57.87073 58.06152  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 56.49142  
## BL/BR:AftLow 53.20000  
## BLK:AftHigh 56.42088  
## BLK:AftLow 55.45000  
## BRN:AftHigh 55.23989  
## BRN:AftLow 52.00000  
## WHT:AftHigh 52.65244  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.91080  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 58.17564  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.01041 a  
## WT/BLK:AftHigh 57.35471 ab  
## BL/BR:AftHigh 56.46726 abc  
## BLK:AftHigh 55.89274 abc  
## WT/BR:AftLow 55.70000 abc  
## WT/BLK:AftLow 55.13333 abcd  
## BRN:AftHigh 54.67505 abcd  
## BLK:AftLow 54.43333 abcd  
## BL/BR:AftLow 53.16667 bcd  
## WHT:AftHigh 52.31090 cd  
## BRN:AftLow 50.80000 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT55 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 275.777 55.155 81.0909 3.108e-14 \*\*\*  
## THIregime 1 111.764 111.764 164.3182 3.150e-12 \*\*\*  
## Colour:THIregime 5 8.212 1.642 2.4148 0.06573 .   
## Residuals 24 16.324 0.680   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6801681   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.38619 1.500757 6 54.6 58.17651  
## BLK 50.62585 2.217676 6 48.2 53.01920  
## BRN 52.24786 2.438019 6 49.6 54.53662  
## WHT 50.15224 2.970609 6 46.1 53.51141  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 56.03458 1.632462 6 53.6 57.94130  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.472236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## BL/BR 56.38619 a  
## WT/BR 56.03458 a  
## BRN 52.24786 b  
## BLK 50.62585 c  
## WHT 50.15224 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6801681   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.45728 2.434719 18 51.94145 58.85602  
## AftLow 51.93333 3.426025 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5673815   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.45728 a  
## AftLow 51.93333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6801681 24 53.69531 1.535931 2.427971  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.63905 0.46732334 3 57.32857 58.17651 57.37032 57.41206  
## BL/BR:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## BLK:AftHigh 52.61836 0.34864893 3 52.38554 53.01920 52.41794 52.45033  
## BLK:AftLow 48.63333 0.51316014 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 54.46238 0.06438287 3 54.42178 54.53662 54.42527 54.42875  
## BRN:AftLow 50.03333 0.37859389 3 49.60000 50.30000 49.90000 50.20000  
## WHT:AftHigh 52.60449 0.81290154 3 51.94145 53.51141 52.15102 52.36060  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.08359 0.67172166 3 57.63639 58.85602 57.69737 57.75835  
## WT/BLK:AftLow 55.36667 0.80829038 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 57.33583 0.60765046 3 56.72602 57.94130 57.03310 57.34019  
## WT/BR:AftLow 54.73333 1.10151411 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 57.79429  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 52.73477  
## BLK:AftLow 48.85000  
## BRN:AftHigh 54.48268  
## BRN:AftLow 50.25000  
## WHT:AftHigh 52.93601  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.30719  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 57.64074  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## BL/BR:AftHigh 57.63905 ab  
## WT/BR:AftHigh 57.33583 abc  
## WT/BLK:AftLow 55.36667 bcd  
## BL/BR:AftLow 55.13333 cd  
## WT/BR:AftLow 54.73333 de  
## BRN:AftHigh 54.46238 de  
## BLK:AftHigh 52.61836 e  
## WHT:AftHigh 52.60449 e  
## BRN:AftLow 50.03333 f  
## BLK:AftLow 48.63333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT56 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 242.189 48.438 30.9547 1.019e-09 \*\*\*  
## THIregime 1 111.028 111.028 70.9537 1.252e-08 \*\*\*  
## Colour:THIregime 5 4.392 0.878 0.5614 0.7284   
## Residuals 24 37.555 1.565   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.5648   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.48992 1.806572 6 52.5 56.42837  
## BLK 52.26993 1.611682 6 50.1 53.90963  
## BRN 51.40388 2.417495 6 49.2 53.81197  
## WHT 49.94079 2.766148 6 46.1 53.11612  
## WT/BLK 57.71083 2.259536 6 53.9 60.52866  
## WT/BR 55.25498 2.476413 6 51.6 58.54240  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.233051   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.71083 a  
## WT/BR 55.25498 b  
## BL/BR 54.48992 bc  
## BLK 52.26993 cd  
## BRN 51.40388 de  
## WHT 49.94079 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.5648   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.26789 2.542262 18 51.48968 60.52866  
## AftLow 51.75556 3.201695 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8605904   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.26789 a  
## AftLow 51.75556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.5648 24 53.51172 2.337656 3.682688  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.07983 0.3094360 3 55.83743 56.42837 55.90557 55.97370  
## BL/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## BLK:AftHigh 53.67319 0.3782006 3 53.23700 53.90963 53.55497 53.87295  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 53.60777 0.1984632 3 53.41558 53.81197 53.50567 53.59576  
## BRN:AftLow 49.20000 0.0000000 3 49.20000 49.20000 49.20000 49.20000  
## WHT:AftHigh 52.18159 0.8399265 3 51.48968 53.11612 51.71432 51.93896  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.08833 1.5836395 3 57.39246 60.52866 58.36817 59.34387  
## WT/BLK:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## WT/BR:AftHigh 56.97662 1.3950045 3 55.86618 58.54240 56.19373 56.52129  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 56.20104  
## BL/BR:AftLow 53.10000  
## BLK:AftHigh 53.89129  
## BLK:AftLow 51.25000  
## BRN:AftHigh 53.70386  
## BRN:AftLow 49.20000  
## WHT:AftHigh 52.52754  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.93627  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 57.53185  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.08833 a  
## WT/BR:AftHigh 56.97662 ab  
## WT/BLK:AftLow 56.33333 abc  
## BL/BR:AftHigh 56.07983 abc  
## BLK:AftHigh 53.67319 bcd  
## BRN:AftHigh 53.60777 bcd  
## WT/BR:AftLow 53.53333 bcd  
## BL/BR:AftLow 52.90000 cd  
## WHT:AftHigh 52.18159 de  
## BLK:AftLow 50.86667 def  
## BRN:AftLow 49.20000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT57 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 210.759 42.152 27.9678 2.847e-09 \*\*\*  
## THIregime 1 96.971 96.971 64.3407 3.011e-08 \*\*\*  
## Colour:THIregime 5 7.679 1.536 1.0191 0.4284   
## Residuals 24 36.172 1.507   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.507154   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.89163 1.676016 6 52.6 56.56195  
## BLK 52.35780 2.629966 6 49.1 55.61818  
## BRN 50.87711 2.604083 6 48.2 53.57200  
## WHT 49.91109 2.737779 6 46.1 53.06058  
## WT/BLK 55.76985 1.499148 6 53.8 57.39246  
## WT/BR 56.17326 1.383694 6 54.3 57.83676  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.191533   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.17326 a  
## WT/BLK 55.76985 a  
## BL/BR 54.89163 a  
## BLK 52.35780 b  
## BRN 50.87711 bc  
## WHT 49.91109 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.507154   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.97136 2.188906 18 51.42621 57.83676  
## AftLow 51.68889 3.191512 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8445898   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.97136 a  
## AftLow 51.68889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.507154 24 53.33012 2.302005 3.614217  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.34993 0.3454556 3 55.95130 56.56195 56.24392 56.53654  
## BL/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## BLK:AftHigh 53.74893 1.6194891 3 52.76794 55.61818 52.81430 52.86065  
## BLK:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 53.22089 0.3740188 3 52.82755 53.57200 53.04534 53.26313  
## BRN:AftLow 48.53333 0.5773503 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 52.12217 0.8437298 3 51.42621 53.06058 51.65297 51.87972  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.07303 0.4247626 3 56.59099 57.39246 56.91332 57.23565  
## WT/BLK:AftLow 54.46667 0.5859465 3 53.80000 54.90000 54.25000 54.70000  
## WT/BR:AftHigh 57.31318 0.4846639 3 56.88021 57.83676 57.05140 57.22258  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 56.54924  
## BL/BR:AftLow 53.85000  
## BLK:AftHigh 54.23942  
## BLK:AftLow 51.90000  
## BRN:AftHigh 53.41756  
## BRN:AftLow 48.70000  
## WHT:AftHigh 52.47015  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.31406  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 57.52967  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.31318 a  
## WT/BLK:AftHigh 57.07303 a  
## BL/BR:AftHigh 56.34993 ab  
## WT/BR:AftLow 55.03333 abc  
## WT/BLK:AftLow 54.46667 abcd  
## BLK:AftHigh 53.74893 abcd  
## BL/BR:AftLow 53.43333 bcd  
## BRN:AftHigh 53.22089 bcd  
## WHT:AftHigh 52.12217 cde  
## BLK:AftLow 50.96667 def  
## BRN:AftLow 48.53333 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT58 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 105.837 21.167 124.5381 2.349e-16 \*\*\*  
## THIregime 1 86.710 86.710 510.1610 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 3.193 0.639 3.7575 0.01181 \*   
## Residuals 24 4.079 0.170   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1699665   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.53628 1.698587 6 54.7 58.40519  
## BLK 54.94854 1.425084 6 53.2 56.52420  
## BRN 53.53539 2.353132 6 51.2 56.01776  
## WHT 54.19653 1.751016 6 52.5 55.84676  
## WT/BLK 58.51145 1.413007 6 56.9 60.14535  
## WT/BR 56.95032 1.811245 6 54.6 58.84295  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.7359543   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.51145 a  
## WT/BR 56.95032 b  
## BL/BR 56.53628 b  
## BLK 54.94854 c  
## WHT 54.19653 d  
## BRN 53.53539 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1699665   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.33172 1.609034 18 55.44105 60.14535  
## AftLow 54.22778 2.016055 18 51.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2836278   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.33172 a  
## AftLow 54.22778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.1699665 24 55.77975 0.7391033 1.213716  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.03923 0.3210774 3 57.80481 58.40519 57.85625 57.90769  
## BL/BR:AftLow 55.03333 0.5773503 3 54.70000 55.70000 54.70000 54.70000  
## BLK:AftHigh 56.19707 0.3010538 3 55.93165 56.52420 56.03351 56.13537  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 55.67077 0.3057163 3 55.44105 56.01776 55.49728 55.55351  
## BRN:AftLow 51.40000 0.2645751 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 55.79306 0.0917229 3 55.68715 55.84676 55.76621 55.84527  
## WHT:AftLow 52.60000 0.1000000 3 52.50000 52.70000 52.55000 52.60000  
## WT/BLK:AftHigh 59.75623 0.3459896 3 59.48326 60.14535 59.56167 59.64007  
## WT/BLK:AftLow 57.26667 0.4725816 3 56.90000 57.80000 57.00000 57.10000  
## WT/BR:AftHigh 58.53398 0.4840351 3 57.97614 58.84295 58.37949 58.78284  
## WT/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 58.15644  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 56.32978  
## BLK:AftLow 53.95000  
## BRN:AftHigh 55.78563  
## BRN:AftLow 51.50000  
## WHT:AftHigh 55.84601  
## WHT:AftLow 52.65000  
## WT/BLK:AftHigh 59.89271  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 58.81290  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.75623 a  
## WT/BR:AftHigh 58.53398 b  
## BL/BR:AftHigh 58.03923 bc  
## WT/BLK:AftLow 57.26667 cd  
## BLK:AftHigh 56.19707 de  
## WHT:AftHigh 55.79306 e  
## BRN:AftHigh 55.67077 e  
## WT/BR:AftLow 55.36667 e  
## BL/BR:AftLow 55.03333 e  
## BLK:AftLow 53.70000 f  
## WHT:AftLow 52.60000 fg  
## BRN:AftLow 51.40000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT59 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 178.239 35.648 15.9905 5.807e-07 \*\*\*  
## THIregime 1 86.303 86.303 38.7127 1.979e-06 \*\*\*  
## Colour:THIregime 5 10.146 2.029 0.9102 0.4909   
## Residuals 24 53.504 2.229   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.229319   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.69792 0.8226568 6 56.8 58.46773  
## BLK 53.92812 2.1092220 6 50.2 56.15724  
## BRN 53.92026 2.8315519 6 49.1 57.06934  
## WHT 50.64482 2.6943360 6 47.8 53.18473  
## WT/BLK 56.48574 1.5142996 6 54.8 58.33332  
## WT/BR 54.67974 2.7008628 6 51.2 58.28105  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.665356   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.69792 a  
## WT/BLK 56.48574 ab  
## WT/BR 54.67974 b  
## BLK 53.92812 b  
## BRN 53.92026 b  
## WHT 50.64482 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.229319   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.10776 2.012474 18 53.02269 58.46773  
## AftLow 53.01111 3.190406 18 47.80000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.027196   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.10776 a  
## AftLow 53.01111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.229319 24 54.55943 2.736631 4.395634  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.42918 0.06604583 3 58.35292 58.46773 58.40991 58.46690  
## BL/BR:AftLow 56.96667 0.28867513 3 56.80000 57.30000 56.80000 56.80000  
## BLK:AftHigh 55.22290 1.16160424 3 53.92231 56.15724 54.75573 55.58915  
## BLK:AftLow 52.63333 2.17791950 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 55.77386 1.55352106 3 54.05154 57.06934 55.12612 56.20070  
## BRN:AftLow 52.06667 2.70616580 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 53.08964 0.08460089 3 53.02269 53.18473 53.04210 53.06152  
## WHT:AftLow 48.20000 0.45825757 3 47.80000 48.70000 47.95000 48.10000  
## WT/BLK:AftHigh 57.80481 0.45778406 3 57.53185 58.33332 57.54056 57.54927  
## WT/BLK:AftLow 55.16667 0.55075705 3 54.80000 55.80000 54.85000 54.90000  
## WT/BR:AftHigh 56.32615 1.72085034 3 55.04031 58.28105 55.34870 55.65710  
## WT/BR:AftLow 53.03333 2.67270150 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 58.46731  
## BL/BR:AftLow 57.05000  
## BLK:AftHigh 55.87319  
## BLK:AftLow 53.85000  
## BRN:AftHigh 56.63502  
## BRN:AftLow 53.55000  
## WHT:AftHigh 53.12312  
## WHT:AftLow 48.40000  
## WT/BLK:AftHigh 57.94129  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 56.96907  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.42918 a  
## WT/BLK:AftHigh 57.80481 a  
## BL/BR:AftLow 56.96667 ab  
## WT/BR:AftHigh 56.32615 abc  
## BRN:AftHigh 55.77386 abc  
## BLK:AftHigh 55.22290 abc  
## WT/BLK:AftLow 55.16667 abc  
## WHT:AftHigh 53.08964 bc  
## WT/BR:AftLow 53.03333 bc  
## BLK:AftLow 52.63333 bc  
## BRN:AftLow 52.06667 cd  
## WHT:AftLow 48.20000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT60 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 230.379 46.076 74.4306 8.132e-14 \*\*\*  
## THIregime 1 85.593 85.593 138.2669 1.901e-11 \*\*\*  
## Colour:THIregime 5 12.364 2.473 3.9944 0.008879 \*\*   
## Residuals 24 14.857 0.619   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.619044   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.19739 1.417834 6 55.6 59.37125  
## BLK 50.74421 2.435842 6 48.1 53.43156  
## BRN 51.89730 2.625785 6 49.2 54.80510  
## WHT 54.29707 1.509151 6 52.6 55.95177  
## WT/BLK 56.48347 1.392851 6 54.8 58.07197  
## WT/BR 54.49889 1.872667 6 51.6 56.40978  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.404526   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.19739 a  
## WT/BLK 56.48347 b  
## WT/BR 54.49889 c  
## WHT 54.29707 c  
## BRN 51.89730 d  
## BLK 50.74421 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.619044   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89500 2.087525 18 52.66203 59.37125  
## AftLow 52.81111 3.285599 18 48.10000 58.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5412873   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89500 a  
## AftLow 52.81111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.619044 24 54.35306 1.447561 2.316307  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.82812 0.9321213 3 57.75182 59.37125 58.55656 59.36130  
## BL/BR:AftLow 57.56667 1.7214335 3 55.60000 58.80000 56.95000 58.30000  
## BLK:AftHigh 52.92174 0.4415354 3 52.66203 53.43156 52.66684 52.67165  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 54.26128 0.4779735 3 53.90779 54.80510 53.98937 54.07094  
## BRN:AftLow 49.53333 0.4932883 3 49.20000 50.10000 49.25000 49.30000  
## WHT:AftHigh 55.62747 0.2839315 3 55.42362 55.95177 55.46531 55.50701  
## WHT:AftLow 52.96667 0.5507571 3 52.60000 53.60000 52.65000 52.70000  
## WT/BLK:AftHigh 57.70027 0.3936028 3 57.28792 58.07197 57.51442 57.74093  
## WT/BLK:AftLow 55.26667 0.5033223 3 54.80000 55.80000 55.00000 55.20000  
## WT/BR:AftHigh 56.03112 0.5663262 3 55.38007 56.40978 55.84178 56.30350  
## WT/BR:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 59.36627  
## BL/BR:AftLow 58.55000  
## BLK:AftHigh 53.05160  
## BLK:AftLow 48.80000  
## BRN:AftHigh 54.43802  
## BRN:AftLow 49.70000  
## WHT:AftHigh 55.72939  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 57.90645  
## WT/BLK:AftLow 55.50000  
## WT/BR:AftHigh 56.35664  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.82812 a  
## WT/BLK:AftHigh 57.70027 ab  
## BL/BR:AftLow 57.56667 abc  
## WT/BR:AftHigh 56.03112 bcd  
## WHT:AftHigh 55.62747 bcd  
## WT/BLK:AftLow 55.26667 cde  
## BRN:AftHigh 54.26128 def  
## WHT:AftLow 52.96667 ef  
## WT/BR:AftLow 52.96667 ef  
## BLK:AftHigh 52.92174 f  
## BRN:AftLow 49.53333 g  
## BLK:AftLow 48.56667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT61 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.037 46.607 94.1951 5.717e-15 \*\*\*  
## THIregime 1 84.795 84.795 171.3745 2.021e-12 \*\*\*  
## Colour:THIregime 5 11.466 2.293 4.6346 0.00422 \*\*   
## Residuals 24 11.875 0.495   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4947956   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.77680 1.224068 6 55.2 58.03463  
## BLK 51.26017 2.148305 6 49.2 53.25732  
## BRN 55.59846 1.675412 6 53.2 57.46651  
## WHT 50.27981 3.095863 6 46.1 53.74989  
## WT/BLK 55.14310 1.338860 6 53.7 56.52129  
## WT/BR 56.51676 1.153171 6 55.1 57.93258  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.255689   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.77680 a  
## WT/BR 56.51676 a  
## BRN 55.59846 ab  
## WT/BLK 55.14310 b  
## BLK 51.26017 c  
## WHT 50.27981 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4947956   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.79726 2.095956 18 52.214 58.03463  
## AftLow 52.72778 3.269252 18 46.100 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4839271   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.79726 a  
## AftLow 52.72778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4947956 24 54.26252 1.296322 2.070849  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.85359 0.23956357 3 57.58194 58.03463 57.76307 57.94420  
## BL/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 53.22034 0.03516111 3 53.18734 53.25732 53.20185 53.21636  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 56.99692 0.49033367 3 56.48819 57.46651 56.76213 57.03607  
## BRN:AftLow 54.20000 0.95393920 3 53.20000 55.10000 53.75000 54.30000  
## WHT:AftHigh 52.85962 0.79663857 3 52.21400 53.74989 52.41449 52.61498  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.35287 0.16559807 3 56.19025 56.52129 56.26866 56.34706  
## WT/BLK:AftLow 53.93333 0.25166115 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 57.50019 0.39971300 3 57.14418 57.93258 57.28400 57.42382  
## WT/BR:AftLow 55.53333 0.51316014 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.98942  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 53.23684  
## BLK:AftLow 49.35000  
## BRN:AftHigh 57.25129  
## BRN:AftLow 54.70000  
## WHT:AftHigh 53.18244  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.43418  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 57.67820  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.85359 a  
## WT/BR:AftHigh 57.50019 ab  
## BRN:AftHigh 56.99692 ab  
## WT/BLK:AftHigh 56.35287 ab  
## BL/BR:AftLow 55.70000 bc  
## WT/BR:AftLow 55.53333 bc  
## BRN:AftLow 54.20000 cd  
## WT/BLK:AftLow 53.93333 cd  
## BLK:AftHigh 53.22034 d  
## WHT:AftHigh 52.85962 d  
## BLK:AftLow 49.30000 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT62 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 171.478 34.296 35.1876 2.721e-10 \*\*\*  
## THIregime 1 98.511 98.511 101.0731 4.428e-10 \*\*\*  
## Colour:THIregime 5 5.616 1.123 1.1523 0.3609   
## Residuals 24 23.392 0.975   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9746482   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.65330 1.973743 6 52.8 58.04874  
## BLK 52.06291 2.079457 6 50.1 54.02792  
## BRN 51.32738 2.804393 6 48.1 54.71624  
## WHT 53.93959 2.115613 6 50.2 56.13471  
## WT/BLK 57.46924 1.486529 6 55.6 59.14351  
## WT/BR 55.97283 1.653349 6 54.3 57.53882  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.762354   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.46924 a  
## WT/BR 55.97283 ab  
## BL/BR 55.65330 bc  
## WHT 53.93959 c  
## BLK 52.06291 d  
## BRN 51.32738 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9746482   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05842 1.997055 18 53.23264 59.14351  
## AftLow 52.75000 2.793743 18 48.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6791896   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05842 a  
## AftLow 52.75000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9746482 24 54.40421 1.814644 2.906427  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.07327 0.90932544 3 56.24905 58.04874 56.58554 56.92203  
## BL/BR:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## BLK:AftHigh 53.95916 0.09880231 3 53.84594 54.02792 53.92478 54.00362  
## BLK:AftLow 50.16667 0.11547005 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 53.75476 0.83369163 3 53.23264 54.71624 53.27402 53.31540  
## BRN:AftLow 48.90000 1.13578167 3 48.10000 50.20000 48.25000 48.40000  
## WHT:AftHigh 55.31252 1.10065391 3 54.06211 56.13471 54.90142 55.74073  
## WHT:AftLow 52.56667 2.07926269 3 50.20000 54.10000 51.80000 53.40000  
## WT/BLK:AftHigh 58.77181 0.36196250 3 58.42044 59.14351 58.58596 58.75148  
## WT/BLK:AftLow 56.16667 0.55075705 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 57.47900 0.07056629 3 57.40117 57.53882 57.44909 57.49700  
## WT/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 57.48538  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 54.01577  
## BLK:AftLow 50.20000  
## BRN:AftHigh 54.01582  
## BRN:AftLow 49.30000  
## WHT:AftHigh 55.93772  
## WHT:AftLow 53.75000  
## WT/BLK:AftHigh 58.94749  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 57.51791  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.77181 a  
## WT/BR:AftHigh 57.47900 ab  
## BL/BR:AftHigh 57.07327 abc  
## WT/BLK:AftLow 56.16667 abcd  
## WHT:AftHigh 55.31252 bcde  
## WT/BR:AftLow 54.46667 cde  
## BL/BR:AftLow 54.23333 cde  
## BLK:AftHigh 53.95916 de  
## BRN:AftHigh 53.75476 de  
## WHT:AftLow 52.56667 ef  
## BLK:AftLow 50.16667 fg  
## BRN:AftLow 48.90000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT63 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 15.813 3.163 1.7208 0.1682   
## THIregime 1 63.655 63.655 34.6342 4.523e-06 \*\*\*  
## Colour:THIregime 5 0.673 0.135 0.0732 0.9957   
## Residuals 24 44.110 1.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.837923   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.99231 2.055013 6 51.6 57.44473  
## BLK 53.27303 2.280493 6 49.4 55.73434  
## BRN 54.37271 2.465828 6 49.9 56.84798  
## WHT 54.30749 1.538088 6 52.6 56.04389  
## WT/BLK 55.14310 1.338860 6 53.7 56.52129  
## WT/BR 55.15643 1.423129 6 53.1 56.73909  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.420097   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.15643 a  
## WT/BLK 55.14310 a  
## BL/BR 54.99231 a  
## BRN 54.37271 a  
## WHT 54.30749 a  
## BLK 53.27303 a  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.837923   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.87058 0.9504926 18 53.61595 57.44473  
## AftLow 53.21111 1.6312712 18 49.40000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9326758   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.87058 a  
## AftLow 53.21111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.837923 24 54.54085 2.48566 3.99116  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.28463 1.1564908 3 55.13178 57.44473 55.70457 56.27737  
## BL/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## BLK:AftHigh 54.87940 1.1167133 3 53.61595 55.73434 54.45193 55.28790  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 55.71209 1.4851458 3 54.03150 56.84798 55.14414 56.25678  
## BRN:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## WHT:AftHigh 55.64832 0.3427739 3 55.43887 56.04389 55.45054 55.46220  
## WHT:AftLow 52.96667 0.6350853 3 52.60000 53.70000 52.60000 52.60000  
## WT/BLK:AftHigh 56.35287 0.1655981 3 56.19025 56.52129 56.26866 56.34706  
## WT/BLK:AftLow 53.93333 0.2516611 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 56.34619 0.4618605 3 55.83743 56.73909 56.14974 56.46205  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 56.86105  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 55.51112  
## BLK:AftLow 52.80000  
## BRN:AftHigh 56.55238  
## BRN:AftLow 54.60000  
## WHT:AftHigh 55.75305  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 56.43418  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 56.60057  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 56.35287 a  
## WT/BR:AftHigh 56.34619 a  
## BL/BR:AftHigh 56.28463 a  
## BRN:AftHigh 55.71209 a  
## WHT:AftHigh 55.64832 ab  
## BLK:AftHigh 54.87940 ab  
## WT/BR:AftLow 53.96667 ab  
## WT/BLK:AftLow 53.93333 ab  
## BL/BR:AftLow 53.70000 ab  
## BRN:AftLow 53.03333 ab  
## WHT:AftLow 52.96667 ab  
## BLK:AftLow 51.66667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT64 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 289.212 57.842 213.544 < 2.2e-16 \*\*\*  
## THIregime 1 91.913 91.913 339.326 1.148e-15 \*\*\*  
## Colour:THIregime 5 15.864 3.173 11.713 8.259e-06 \*\*\*  
## Residuals 24 6.501 0.271   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2708682   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.80855 1.262198 6 55.2 58.18232  
## BLK 55.18055 1.044629 6 53.3 56.19300  
## BRN 52.15678 2.566972 6 49.1 54.83646  
## WHT 49.26282 2.872209 6 46.2 52.29987  
## WT/BLK 57.46924 1.486529 6 55.6 59.14351  
## WT/BR 55.37586 1.767039 6 53.7 57.17031  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9290695   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.46924 a  
## BL/BR 56.80855 a  
## WT/BR 55.37586 b  
## BLK 55.18055 b  
## BRN 52.15678 c  
## WHT 49.26282 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2708682   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.97348 2.397619 18 51.40428 59.14351  
## AftLow 52.77778 3.546756 18 46.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.358052   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.97348 a  
## AftLow 52.77778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2708682 24 54.37563 0.9571384 1.532197  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.91710 0.29364238 3 57.60154 58.18232 57.78449 57.96743  
## BL/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 55.86109 0.50862272 3 55.27553 56.19300 55.69514 56.11475  
## BLK:AftLow 54.50000 1.03923048 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 54.44689 0.54425364 3 53.82503 54.83646 54.25210 54.67917  
## BRN:AftLow 49.86667 0.66583281 3 49.10000 50.30000 49.65000 50.20000  
## WHT:AftHigh 51.85896 0.44795429 3 51.40428 52.29987 51.63851 51.87275  
## WHT:AftLow 46.66667 0.45092498 3 46.20000 47.10000 46.45000 46.70000  
## WT/BLK:AftHigh 58.77181 0.36196250 3 58.42044 59.14351 58.58596 58.75148  
## WT/BLK:AftLow 56.16667 0.55075705 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 56.98504 0.18512309 3 56.80007 57.17031 56.89241 56.98475  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 58.07487  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 56.15387  
## BLK:AftLow 55.10000  
## BRN:AftHigh 54.75781  
## BRN:AftLow 50.25000  
## WHT:AftHigh 52.08631  
## WHT:AftLow 46.90000  
## WT/BLK:AftHigh 58.94749  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 57.07753  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.77181 a  
## BL/BR:AftHigh 57.91710 ab  
## WT/BR:AftHigh 56.98504 bc  
## WT/BLK:AftLow 56.16667 c  
## BLK:AftHigh 55.86109 cd  
## BL/BR:AftLow 55.70000 cd  
## BLK:AftLow 54.50000 de  
## BRN:AftHigh 54.44689 de  
## WT/BR:AftLow 53.76667 e  
## WHT:AftHigh 51.85896 f  
## BRN:AftLow 49.86667 g  
## WHT:AftLow 46.66667 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT65 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 280.831 56.166 58.5696 1.160e-12 \*\*\*  
## THIregime 1 108.680 108.680 113.3307 1.428e-10 \*\*\*  
## Colour:THIregime 5 7.140 1.428 1.4892 0.2303   
## Residuals 24 23.015 0.959   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9589637   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.15805 1.746098 6 53.6 58.14166  
## BLK 52.89967 2.152261 6 50.2 55.57869  
## BRN 51.42219 2.801539 6 48.3 54.36603  
## WHT 50.80606 2.444121 6 47.5 53.21783  
## WT/BLK 58.50071 1.685489 6 56.1 60.42412  
## WT/BR 56.10496 1.850080 6 53.7 57.95698  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.748116   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.50071 a  
## BL/BR 56.15805 b  
## WT/BR 56.10496 b  
## BLK 52.89967 c  
## BRN 51.42219 cd  
## WHT 50.80606 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9589637   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05277 2.63478 18 52.45668 60.42412  
## AftLow 52.57778 3.36916 18 47.50000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6737025   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05277 a  
## AftLow 52.57778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9589637 24 54.31527 1.802931 2.882946  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.58277 0.5651132 3 57.01164 58.14166 57.30332 57.59501  
## BL/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## BLK:AftHigh 54.19933 1.1971489 3 53.43094 55.57869 53.50965 53.58837  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 53.94438 0.5169271 3 53.36767 54.36603 53.73356 54.09945  
## BRN:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## WHT:AftHigh 52.94545 0.4242169 3 52.45668 53.21783 52.80927 53.16186  
## WHT:AftLow 48.66667 1.0115994 3 47.50000 49.30000 48.35000 49.20000  
## WT/BLK:AftHigh 59.90142 0.6528521 3 59.16964 60.42412 59.64007 60.11050  
## WT/BLK:AftLow 57.10000 0.8888194 3 56.10000 57.80000 56.75000 57.40000  
## WT/BR:AftHigh 57.74325 0.2483075 3 57.47087 57.95698 57.63639 57.80191  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 57.86833  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 54.58353  
## BLK:AftLow 52.30000  
## BRN:AftHigh 54.23274  
## BRN:AftLow 49.20000  
## WHT:AftHigh 53.18984  
## WHT:AftLow 49.25000  
## WT/BLK:AftHigh 60.26731  
## WT/BLK:AftLow 57.60000  
## WT/BR:AftHigh 57.87944  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.90142 a  
## WT/BR:AftHigh 57.74325 a  
## BL/BR:AftHigh 57.58277 ab  
## WT/BLK:AftLow 57.10000 abc  
## BL/BR:AftLow 54.73333 bcd  
## WT/BR:AftLow 54.46667 cde  
## BLK:AftHigh 54.19933 de  
## BRN:AftHigh 53.94438 de  
## WHT:AftHigh 52.94545 de  
## BLK:AftLow 51.60000 ef  
## BRN:AftLow 48.90000 fg  
## WHT:AftLow 48.66667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT66 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 109.193 21.839 13.8996 1.978e-06 \*\*\*  
## THIregime 1 75.120 75.120 47.8116 3.765e-07 \*\*\*  
## Colour:THIregime 5 6.543 1.309 0.8329 0.5391   
## Residuals 24 37.708 1.571   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.571166   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.02469 2.252650 6 51.6 57.87036  
## BLK 53.60221 2.417026 6 49.2 55.95916  
## BRN 50.97369 2.601433 6 48.2 53.85901  
## WHT 54.83885 1.154199 6 53.6 56.04041  
## WT/BLK 56.13960 1.422200 6 54.2 57.96743  
## WT/BR 55.88812 1.683901 6 53.6 57.95436  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.237588   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.13960 a  
## WT/BR 55.88812 a  
## BL/BR 55.02469 ab  
## WHT 54.83885 ab  
## BLK 53.60221 b  
## BRN 50.97369 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.571166   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.85572 1.622351 18 53.01485 57.96743  
## AftLow 52.96667 2.528659 18 48.20000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8623391   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.85572 a  
## AftLow 52.96667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.571166 24 54.4112 2.303683 3.690171  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.51604 1.2330228 3 55.45847 57.87036 55.83888 56.21929  
## BL/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## BLK:AftHigh 54.90443 1.4518088 3 53.24861 55.95916 54.37706 55.50551  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 53.31405 0.4727006 3 53.01485 53.85901 53.04158 53.06831  
## BRN:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## WHT:AftHigh 55.87771 0.1509452 3 55.74222 56.04041 55.79636 55.85050  
## WHT:AftLow 53.80000 0.2645751 3 53.60000 54.10000 53.65000 53.70000  
## WT/BLK:AftHigh 57.27921 0.6561568 3 56.66068 57.96743 56.93510 57.20952  
## WT/BLK:AftLow 55.00000 0.8544004 3 54.20000 55.90000 54.55000 54.90000  
## WT/BR:AftHigh 57.24291 0.6626643 3 56.64326 57.95436 56.88718 57.13111  
## WT/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 57.04482  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 55.73234  
## BLK:AftLow 53.85000  
## BRN:AftHigh 53.46366  
## BRN:AftLow 48.85000  
## WHT:AftHigh 55.94545  
## WHT:AftLow 53.90000  
## WT/BLK:AftHigh 57.58847  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.54274  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.27921 a  
## WT/BR:AftHigh 57.24291 a  
## BL/BR:AftHigh 56.51604 ab  
## WHT:AftHigh 55.87771 abc  
## WT/BLK:AftLow 55.00000 abc  
## BLK:AftHigh 54.90443 abc  
## WT/BR:AftLow 54.53333 abc  
## WHT:AftLow 53.80000 abc  
## BL/BR:AftLow 53.53333 bc  
## BRN:AftHigh 53.31405 bc  
## BLK:AftLow 52.30000 cd  
## BRN:AftLow 48.63333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT67 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 157.641 31.528 29.1091 1.903e-09 \*\*\*  
## THIregime 1 82.660 82.660 76.3174 6.421e-09 \*\*\*  
## Colour:THIregime 5 5.948 1.190 1.0983 0.3871   
## Residuals 24 25.994 1.083   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.083103   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.92484 1.146994 6 54.3 57.37504  
## BLK 50.66587 1.996593 6 48.4 52.98436  
## BRN 52.67537 2.046585 6 50.1 54.77896  
## WHT 50.29690 2.346804 6 47.8 52.90844  
## WT/BLK 54.71224 1.313066 6 53.2 56.05086  
## WT/BR 54.41651 2.489624 6 51.2 57.64074  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.857822   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.92484 a  
## WT/BLK 54.71224 a  
## WT/BR 54.41651 ab  
## BRN 52.67537 b  
## BLK 50.66587 c  
## WHT 50.29690 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.083103   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.63058 1.885285 18 52.04132 57.64074  
## AftLow 51.60000 2.756383 18 47.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7159817   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.63058 a  
## AftLow 51.60000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.083103 24 53.11529 1.959365 3.06387  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.81635 0.5012952 3 56.40586 57.37504 56.53701 56.66815  
## BL/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## BLK:AftHigh 52.39840 0.5075644 3 52.09490 52.98436 52.10542 52.11594  
## BLK:AftLow 48.93333 0.8386497 3 48.40000 49.90000 48.45000 48.50000  
## BRN:AftHigh 54.48408 0.4622392 3 53.95135 54.77896 54.33664 54.72194  
## BRN:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## WHT:AftHigh 52.39381 0.4557327 3 52.04132 52.90844 52.13649 52.23167  
## WHT:AftLow 48.20000 0.6082763 3 47.80000 48.90000 47.85000 47.90000  
## WT/BLK:AftHigh 55.89115 0.2399006 3 55.61528 56.05086 55.81129 56.00731  
## WT/BLK:AftLow 53.53333 0.2886751 3 53.20000 53.70000 53.45000 53.70000  
## WT/BR:AftHigh 55.79968 1.6163977 3 54.61344 57.64074 54.87914 55.14485  
## WT/BR:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 57.02159  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 52.55015  
## BLK:AftLow 49.20000  
## BRN:AftHigh 54.75045  
## BRN:AftLow 51.25000  
## WHT:AftHigh 52.57005  
## WHT:AftLow 48.40000  
## WT/BLK:AftHigh 56.02908  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 56.39280  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.81635 a  
## WT/BLK:AftHigh 55.89115 ab  
## WT/BR:AftHigh 55.79968 ab  
## BL/BR:AftLow 55.03333 abc  
## BRN:AftHigh 54.48408 abc  
## WT/BLK:AftLow 53.53333 bcd  
## WT/BR:AftLow 53.03333 bcd  
## BLK:AftHigh 52.39840 cd  
## WHT:AftHigh 52.39381 cd  
## BRN:AftLow 50.86667 de  
## BLK:AftLow 48.93333 e  
## WHT:AftLow 48.20000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT68 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 69.786 13.957 8.8500 7.200e-05 \*\*\*  
## THIregime 1 77.077 77.077 48.8731 3.147e-07 \*\*\*  
## Colour:THIregime 5 3.204 0.641 0.4064 0.8396   
## Residuals 24 37.850 1.577   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.577087   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.40489 1.230422 6 54.6 57.69955  
## BLK 53.50912 2.112598 6 50.1 55.82436  
## BRN 52.94478 3.079662 6 49.1 56.95862  
## WHT 54.79287 1.395488 6 53.2 56.14545  
## WT/BLK 56.76862 1.617219 6 54.6 58.85602  
## WT/BR 54.52575 1.897951 6 51.6 56.46205  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.241801   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.76862 a  
## BL/BR 56.40489 ab  
## WHT 54.79287 abc  
## WT/BR 54.52575 bc  
## BLK 53.50912 c  
## BRN 52.94478 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.577087   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28756 1.404158 18 53.88166 58.85602  
## AftLow 53.36111 2.132698 18 49.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8639626   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28756 a  
## AftLow 53.36111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.577087 24 54.82434 2.290628 3.697118  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.44311 0.3283506 3 57.07303 57.69955 57.31488 57.55674  
## BL/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## BLK:AftHigh 55.11823 0.8943793 3 54.11252 55.82436 54.76517 55.41782  
## BLK:AftLow 51.90000 1.6093477 3 50.10000 53.20000 51.25000 52.40000  
## BRN:AftHigh 54.92289 1.7631502 3 53.88166 56.95862 53.90502 53.92838  
## BRN:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## WHT:AftHigh 56.05241 0.1607165 3 55.86683 56.14545 56.00589 56.14495  
## WHT:AftLow 53.53333 0.2886751 3 53.20000 53.70000 53.45000 53.70000  
## WT/BLK:AftHigh 58.10391 0.6827598 3 57.52314 58.85602 57.72786 57.93258  
## WT/BLK:AftLow 55.43333 0.8504901 3 54.60000 56.30000 55.00000 55.40000  
## WT/BR:AftHigh 56.08484 0.5567450 3 55.44540 56.46205 55.89623 56.34706  
## WT/BR:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 57.62814  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 55.62109  
## BLK:AftLow 52.80000  
## BRN:AftHigh 55.44350  
## BRN:AftLow 51.90000  
## WHT:AftHigh 56.14520  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 58.39430  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 56.40456  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.10391 a  
## BL/BR:AftHigh 57.44311 a  
## WT/BR:AftHigh 56.08484 ab  
## WHT:AftHigh 56.05241 ab  
## WT/BLK:AftLow 55.43333 abc  
## BL/BR:AftLow 55.36667 abc  
## BLK:AftHigh 55.11823 abc  
## BRN:AftHigh 54.92289 abc  
## WHT:AftLow 53.53333 bcd  
## WT/BR:AftLow 52.96667 bcd  
## BLK:AftLow 51.90000 cd  
## BRN:AftLow 50.96667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT69 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 105.245 21.049 14.1617 1.685e-06 \*\*\*  
## THIregime 1 81.104 81.104 54.5667 1.256e-07 \*\*\*  
## Colour:THIregime 5 5.780 1.156 0.7778 0.5754   
## Residuals 24 35.672 1.486   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.486328   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.27816 1.384899 6 54.6 57.88529  
## BLK 51.65836 2.359534 6 49.2 54.19528  
## BRN 55.16392 1.655661 6 53.2 57.00566  
## WHT 53.23635 3.121496 6 47.7 56.48894  
## WT/BLK 55.17371 1.805159 6 53.1 57.70608  
## WT/BR 56.49528 1.132415 6 55.1 57.89774  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.176339   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.49528 a  
## BL/BR 56.27816 a  
## WT/BLK 55.17371 ab  
## BRN 55.16392 ab  
## WHT 53.23635 bc  
## BLK 51.65836 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.486328   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.16859 1.552551 18 53.07692 57.89774  
## AftLow 53.16667 2.493757 18 47.70000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8387342   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.16859 a  
## AftLow 53.16667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.486328 24 54.66763 2.230114 3.589159  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.45631 0.3751167 3 57.18991 57.88529 57.24182 57.29373  
## BL/BR:AftLow 55.10000 0.7000000 3 54.60000 55.90000 54.70000 54.80000  
## BLK:AftHigh 53.78338 0.3577175 3 53.55062 54.19528 53.57744 53.60426  
## BLK:AftLow 49.53333 0.4932883 3 49.20000 50.10000 49.25000 49.30000  
## BRN:AftHigh 56.62784 0.3374111 3 56.35656 57.00566 56.43893 56.52129  
## BRN:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## WHT:AftHigh 55.13936 1.8142788 3 53.07692 56.48894 54.46458 55.85224  
## WHT:AftLow 51.33333 3.1942657 3 47.70000 53.70000 50.15000 52.60000  
## WT/BLK:AftHigh 56.54743 1.0075825 3 55.87663 57.70608 55.96810 56.05958  
## WT/BLK:AftLow 53.80000 1.2124356 3 53.10000 55.20000 53.10000 53.10000  
## WT/BR:AftHigh 57.45722 0.4081454 3 57.09191 57.89774 57.23696 57.38201  
## WT/BR:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.58951  
## BL/BR:AftLow 55.35000  
## BLK:AftHigh 53.89977  
## BLK:AftLow 49.70000  
## BRN:AftHigh 56.76348  
## BRN:AftLow 53.95000  
## WHT:AftHigh 56.17059  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 56.88283  
## WT/BLK:AftLow 54.15000  
## WT/BR:AftHigh 57.63987  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.45722 a  
## BL/BR:AftHigh 57.45631 a  
## BRN:AftHigh 56.62784 ab  
## WT/BLK:AftHigh 56.54743 ab  
## WT/BR:AftLow 55.53333 ab  
## WHT:AftHigh 55.13936 ab  
## BL/BR:AftLow 55.10000 ab  
## WT/BLK:AftLow 53.80000 bc  
## BLK:AftHigh 53.78338 bc  
## BRN:AftLow 53.70000 bc  
## WHT:AftLow 51.33333 cd  
## BLK:AftLow 49.53333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT70 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 28.608 5.722 7.3135 0.0002747 \*\*\*  
## THIregime 1 66.326 66.326 84.7805 2.403e-09 \*\*\*  
## Colour:THIregime 5 1.128 0.226 0.2885 0.9146921   
## Residuals 24 18.776 0.782   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7823319   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.38243 1.475418 6 54.2 58.02551  
## BLK 55.36487 1.449093 6 53.2 57.02396  
## BRN 54.33440 2.423920 6 50.2 56.97430  
## WHT 55.03790 1.395154 6 53.7 56.38813  
## WT/BLK 57.06022 1.637004 6 54.7 58.85602  
## WT/BR 55.89762 1.570934 6 54.3 57.39246  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.578937   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.06022 a  
## BL/BR 56.38243 ab  
## WT/BR 55.89762 abc  
## BLK 55.36487 bc  
## WHT 55.03790 bc  
## BRN 54.33440 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7823319   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.03692 0.9899879 18 54.78941 58.85602  
## AftLow 54.32222 1.3687932 18 50.20000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6085028   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.03692 a  
## AftLow 54.32222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7823319 24 55.67957 1.588545 2.60394  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.59819 0.49456440 3 57.05644 58.02551 57.38453 57.71261  
## BL/BR:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## BLK:AftHigh 56.52975 0.51854680 3 55.98988 57.02396 56.28264 56.57540  
## BLK:AftLow 54.20000 0.95393920 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 56.03547 1.12437764 3 54.78941 56.97430 55.56606 56.34270  
## BRN:AftLow 52.63333 2.17791950 3 50.20000 54.40000 51.75000 53.30000  
## WHT:AftHigh 56.30913 0.06854437 3 56.26539 56.38813 56.26964 56.27388  
## WHT:AftLow 53.76667 0.11547005 3 53.70000 53.90000 53.70000 53.70000  
## WT/BLK:AftHigh 58.42044 0.62359957 3 57.70608 58.85602 58.20265 58.69921  
## WT/BLK:AftLow 55.70000 0.87177979 3 54.70000 56.30000 55.40000 56.10000  
## WT/BR:AftHigh 57.32857 0.05800514 3 57.27921 57.39246 57.29663 57.31406  
## WT/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 57.86906  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 56.79968  
## BLK:AftLow 54.70000  
## BRN:AftHigh 56.65850  
## BRN:AftLow 53.85000  
## WHT:AftHigh 56.33101  
## WHT:AftLow 53.80000  
## WT/BLK:AftHigh 58.77762  
## WT/BLK:AftLow 56.20000  
## WT/BR:AftHigh 57.35326  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.42044 a  
## BL/BR:AftHigh 57.59819 ab  
## WT/BR:AftHigh 57.32857 ab  
## BLK:AftHigh 56.52975 abc  
## WHT:AftHigh 56.30913 abcd  
## BRN:AftHigh 56.03547 abcd  
## WT/BLK:AftLow 55.70000 bcd  
## BL/BR:AftLow 55.16667 bcde  
## WT/BR:AftLow 54.46667 cde  
## BLK:AftLow 54.20000 cde  
## WHT:AftLow 53.76667 de  
## BRN:AftLow 52.63333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT71 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 226.286 45.257 38.8033 9.781e-11 \*\*\*  
## THIregime 1 101.162 101.162 86.7352 1.936e-09 \*\*\*  
## Colour:THIregime 5 9.264 1.853 1.5886 0.2013   
## Residuals 24 27.992 1.166   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.166326   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.82914 1.348690 6 53.8 57.47377  
## BLK 50.67733 2.117899 6 48.1 53.22538  
## BRN 50.87935 2.589192 6 48.1 53.82242  
## WHT 49.73959 2.683026 6 46.1 52.80017  
## WT/BLK 55.18034 2.356076 6 52.5 58.64694  
## WT/BR 55.11882 1.387569 6 53.1 56.67810  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.927876   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.82914 a  
## WT/BLK 55.18034 a  
## WT/BR 55.11882 a  
## BRN 50.87935 b  
## BLK 50.67733 b  
## WHT 49.73959 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.166326   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58041 2.242448 18 51.32217 58.64694  
## AftLow 51.22778 3.236339 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7429797   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58041 a  
## AftLow 51.22778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.166326 24 52.9041 2.041365 3.179401  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.85828 0.6082898 3 56.25745 57.47377 56.55054 56.84363  
## BL/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## BLK:AftHigh 52.45467 0.6685748 3 52.03066 53.22538 52.06931 52.10796  
## BLK:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 53.19204 0.5485568 3 52.82319 53.82242 52.87685 52.93050  
## BRN:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## WHT:AftHigh 52.04584 0.7394750 3 51.32217 52.80017 51.66868 52.01518  
## WHT:AftLow 47.43333 1.2220202 3 46.10000 48.50000 46.90000 47.70000  
## WT/BLK:AftHigh 56.66068 1.7272843 3 55.51074 58.64694 55.66755 55.82436  
## WT/BLK:AftLow 53.70000 2.0784610 3 52.50000 56.10000 52.50000 52.50000  
## WT/BR:AftHigh 56.27098 0.4771269 3 55.74596 56.67810 56.06742 56.38888  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 57.15870  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 52.66667  
## BLK:AftLow 49.30000  
## BRN:AftHigh 53.37646  
## BRN:AftLow 48.80000  
## WHT:AftHigh 52.40768  
## WHT:AftLow 48.10000  
## WT/BLK:AftHigh 57.23565  
## WT/BLK:AftLow 54.30000  
## WT/BR:AftHigh 56.53349  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.85828 a  
## WT/BLK:AftHigh 56.66068 a  
## WT/BR:AftHigh 56.27098 ab  
## BL/BR:AftLow 54.80000 abc  
## WT/BR:AftLow 53.96667 abc  
## WT/BLK:AftLow 53.70000 abc  
## BRN:AftHigh 53.19204 bc  
## BLK:AftHigh 52.45467 c  
## WHT:AftHigh 52.04584 cd  
## BLK:AftLow 48.90000 de  
## BRN:AftLow 48.56667 e  
## WHT:AftLow 47.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT72 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 95.999 19.200 5.8832 0.0011 \*\*   
## THIregime 1 78.104 78.104 23.9326 5.465e-05 \*\*\*  
## Colour:THIregime 5 4.897 0.979 0.3001 0.9080   
## Residuals 24 78.324 3.264   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.263508   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.85380 1.265841 6 54.6 57.04150  
## BLK 54.11930 2.313335 6 49.9 56.34445  
## BRN 51.51405 2.427937 6 49.2 53.87992  
## WHT 53.22208 3.042276 6 47.6 55.90451  
## WT/BLK 56.28359 2.806570 6 52.6 60.42412  
## WT/BR 55.14485 1.511289 6 53.7 56.60841  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.224865   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.28359 a  
## BL/BR 55.85380 a  
## WT/BR 55.14485 a  
## BLK 54.11930 ab  
## WHT 53.22208 ab  
## BRN 51.51405 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.263508   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.82922 1.848920 18 52.46041 60.42412  
## AftLow 52.88333 2.669049 18 47.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.242823   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.82922 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.263508 24 54.35628 3.323477 5.318361  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.00759 0.04641069 3 56.95470 57.04150 56.99063 57.02657  
## BL/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## BLK:AftHigh 55.20527 1.49247850 3 53.51577 56.34445 54.63568 55.75558  
## BLK:AftLow 53.03333 2.75922694 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 53.72810 0.14552264 3 53.58982 53.87992 53.65219 53.71455  
## BRN:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## WHT:AftHigh 54.67749 1.92369755 3 52.46041 55.90451 54.06398 55.66755  
## WHT:AftLow 51.76667 3.61708907 3 47.60000 54.10000 50.60000 53.60000  
## WT/BLK:AftHigh 57.83385 2.25141111 3 56.34706 60.42412 56.53872 56.73037  
## WT/BLK:AftLow 54.73333 2.72274371 3 52.60000 57.80000 53.20000 53.80000  
## WT/BR:AftHigh 56.52304 0.09208030 3 56.42547 56.60841 56.48035 56.53523  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 57.03404  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 56.05002  
## BLK:AftLow 54.60000  
## BRN:AftHigh 53.79723  
## BRN:AftLow 49.35000  
## WHT:AftHigh 55.78603  
## WHT:AftLow 53.85000  
## WT/BLK:AftHigh 58.57725  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 56.57182  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.83385 a  
## BL/BR:AftHigh 57.00759 ab  
## WT/BR:AftHigh 56.52304 ab  
## BLK:AftHigh 55.20527 ab  
## WT/BLK:AftLow 54.73333 ab  
## BL/BR:AftLow 54.70000 ab  
## WHT:AftHigh 54.67749 ab  
## WT/BR:AftLow 53.76667 abc  
## BRN:AftHigh 53.72810 abc  
## BLK:AftLow 53.03333 abc  
## WHT:AftLow 51.76667 bc  
## BRN:AftLow 49.30000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT73 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 134.603 26.921 162.7405 < 2.2e-16 \*\*\*  
## THIregime 1 88.768 88.768 536.6236 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 4.797 0.959 5.7993 0.001199 \*\*   
## Residuals 24 3.970 0.165   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1654201   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.33532 1.383699 6 54.7 57.79755  
## BLK 51.79708 2.173047 6 49.1 53.98620  
## BRN 52.35183 2.398055 6 50.1 54.69533  
## WHT 53.92017 1.645208 6 52.1 55.58915  
## WT/BLK 56.73151 1.373607 6 55.1 58.35074  
## WT/BR 55.85247 1.589362 6 53.7 57.46564  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.7260446   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.73151 a  
## BL/BR 56.33532 ab  
## WT/BR 55.85247 b  
## WHT 53.92017 c  
## BRN 52.35183 d  
## BLK 51.79708 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1654201   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.06834 1.666156 18 53.23438 58.35074  
## AftLow 52.92778 2.378533 18 49.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2798087   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.06834 a  
## AftLow 52.92778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.1654201 24 54.49806 0.7462993 1.197373  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.57063 0.2202986 3 57.35761 57.79755 57.45718 57.55674  
## BL/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## BLK:AftHigh 53.72749 0.4272194 3 53.23438 53.98620 53.59814 53.96190  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 54.53699 0.1963801 3 54.31724 54.69533 54.45782 54.59839  
## BRN:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## WHT:AftHigh 55.40700 0.2035252 3 55.18732 55.58915 55.31593 55.44453  
## WHT:AftLow 52.43333 0.3055050 3 52.10000 52.70000 52.30000 52.50000  
## WT/BLK:AftHigh 57.92968 0.3831483 3 57.60154 58.35074 57.71915 57.83676  
## WT/BLK:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## WT/BR:AftHigh 57.23826 0.3324697 3 56.85669 57.46564 57.12458 57.39246  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 57.67714  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 53.97405  
## BLK:AftLow 50.25000  
## BRN:AftHigh 54.64686  
## BRN:AftLow 50.20000  
## WHT:AftHigh 55.51684  
## WHT:AftLow 52.60000  
## WT/BLK:AftHigh 58.09375  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 57.42905  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.92968 a  
## BL/BR:AftHigh 57.57063 a  
## WT/BR:AftHigh 57.23826 a  
## WT/BLK:AftLow 55.53333 b  
## WHT:AftHigh 55.40700 b  
## BL/BR:AftLow 55.10000 b  
## BRN:AftHigh 54.53699 bc  
## WT/BR:AftLow 54.46667 bc  
## BLK:AftHigh 53.72749 c  
## WHT:AftLow 52.43333 d  
## BRN:AftLow 50.16667 e  
## BLK:AftLow 49.86667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT74 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 179.588 35.918 56.8425 1.612e-12 \*\*\*  
## THIregime 1 92.699 92.699 146.7026 1.031e-11 \*\*\*  
## Colour:THIregime 5 5.193 1.039 1.6437 0.1868   
## Residuals 24 15.165 0.632   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6318804   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.70723 1.363443 6 54.3 57.02004  
## BLK 50.79422 2.112577 6 48.3 52.92918  
## BRN 53.47764 2.473377 6 49.4 56.22161  
## WHT 50.69299 2.412902 6 48.1 52.98436  
## WT/BLK 55.68709 1.342726 6 54.3 57.00044  
## WT/BR 55.80217 1.595874 6 53.6 57.74528  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.419014   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.80217 a  
## BL/BR 55.70723 a  
## WT/BLK 55.68709 a  
## BRN 53.47764 b  
## BLK 50.79422 c  
## WHT 50.69299 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6318804   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.29822 1.988629 18 52.28568 57.74528  
## AftLow 52.08889 2.794088 18 48.10000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5468705   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.29822 a  
## AftLow 52.08889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6318804 24 53.69356 1.480455 2.340199  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.94778 0.08452947 3 56.85483 57.02004 56.91166 56.96849  
## BL/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## BLK:AftHigh 52.68845 0.35101731 3 52.28568 52.92918 52.56808 52.85047  
## BLK:AftLow 48.90000 0.51961524 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 55.28862 1.20072716 3 53.93393 56.22161 54.82212 55.71032  
## BRN:AftLow 51.66667 2.00333056 3 49.40000 53.20000 50.90000 52.40000  
## WHT:AftHigh 52.88599 0.08706447 3 52.81884 52.98436 52.83680 52.85477  
## WHT:AftLow 48.50000 0.34641016 3 48.10000 48.70000 48.40000 48.70000  
## WT/BLK:AftHigh 56.90751 0.12513706 3 56.76522 57.00044 56.86105 56.95688  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 57.07100 0.62760470 3 56.50387 57.74528 56.73386 56.96385  
## WT/BR:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 56.99426  
## BL/BR:AftLow 54.55000  
## BLK:AftHigh 52.88983  
## BLK:AftLow 49.20000  
## BRN:AftHigh 55.96596  
## BRN:AftLow 52.80000  
## WHT:AftHigh 52.91956  
## WHT:AftLow 48.70000  
## WT/BLK:AftHigh 56.97866  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 57.35456  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.07100 a  
## BL/BR:AftHigh 56.94778 a  
## WT/BLK:AftHigh 56.90751 a  
## BRN:AftHigh 55.28862 ab  
## WT/BR:AftLow 54.53333 bc  
## BL/BR:AftLow 54.46667 bc  
## WT/BLK:AftLow 54.46667 bc  
## WHT:AftHigh 52.88599 cd  
## BLK:AftHigh 52.68845 cd  
## BRN:AftLow 51.66667 d  
## BLK:AftLow 48.90000 e  
## WHT:AftLow 48.50000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT75 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 102.806 20.561 26.4737 4.929e-09 \*\*\*  
## THIregime 1 71.534 71.534 92.1035 1.091e-09 \*\*\*  
## Colour:THIregime 5 6.294 1.259 1.6207 0.1927   
## Residuals 24 18.640 0.777   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7766662   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.25564 2.469782 6 50.2 56.50387  
## BLK 50.80775 2.415010 6 48.2 53.40252  
## BRN 55.50102 1.321939 6 53.3 56.84600  
## WHT 54.53498 1.449447 6 52.6 55.98117  
## WT/BLK 55.08862 1.383054 6 53.1 56.74780  
## WT/BR 55.66975 1.264962 6 54.2 56.94817  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.573209   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.66975 a  
## BRN 55.50102 a  
## WT/BLK 55.08862 a  
## WHT 54.53498 ab  
## BL/BR 53.25564 b  
## BLK 50.80775 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7766662   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.55259 1.431982 18 52.74868 56.94817  
## AftLow 52.73333 2.337419 18 48.20000 55.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6062954   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.55259 a  
## AftLow 52.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7766662 24 54.14296 1.627703 2.594494  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 55.01127 1.2933623 3 54.22141 56.50387 54.26497 54.30853  
## BL/BR:AftLow 51.50000 2.0808652 3 50.20000 53.90000 50.30000 50.40000  
## BLK:AftHigh 52.98217 0.3647758 3 52.74868 53.40252 52.77200 52.79531  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 56.50205 0.5316553 3 55.88970 56.84600 56.33007 56.77045  
## BRN:AftLow 54.50000 1.0392305 3 53.30000 55.10000 54.20000 55.10000  
## WHT:AftHigh 55.80329 0.3050912 3 55.45100 55.98117 55.71434 55.97769  
## WHT:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## WT/BLK:AftHigh 56.21058 0.6343585 3 55.51074 56.74780 55.94197 56.37320  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 56.80616 0.2065547 3 56.56921 56.94817 56.73516 56.90112  
## WT/BR:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 55.40620  
## BL/BR:AftLow 52.15000  
## BLK:AftHigh 53.09892  
## BLK:AftLow 48.85000  
## BRN:AftHigh 56.80822  
## BRN:AftLow 55.10000  
## WHT:AftHigh 55.97943  
## WHT:AftLow 53.60000  
## WT/BLK:AftHigh 56.56050  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 56.92464  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.80616 a  
## BRN:AftHigh 56.50205 ab  
## WT/BLK:AftHigh 56.21058 ab  
## WHT:AftHigh 55.80329 abc  
## BL/BR:AftHigh 55.01127 abcd  
## WT/BR:AftLow 54.53333 abcd  
## BRN:AftLow 54.50000 abcd  
## WT/BLK:AftLow 53.96667 bcde  
## WHT:AftLow 53.26667 cde  
## BLK:AftHigh 52.98217 de  
## BL/BR:AftLow 51.50000 e  
## BLK:AftLow 48.63333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT76 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)  
## Colour 5 1410791 282158 1.1457 0.3640  
## THIregime 1 389682 389682 1.5822 0.2205  
## Colour:THIregime 5 1405997 281199 1.1418 0.3659  
## Residuals 24 5910840 246285   
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 246285   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.12141 1.449429 6 55.3 58.90829  
## BLK 128.51323 85.222413 6 50.1 214.53350  
## BRN 53.48807 2.611130 6 50.2 56.66504  
## WHT 596.41995 1238.559093 6 54.2 3120.26810  
## WT/BLK 54.99298 1.344094 6 53.7 56.24252  
## WT/BR 56.30976 1.285145 6 54.3 57.72699  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 885.9071   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WHT 596.41995 a  
## BLK 128.51323 a  
## BL/BR 57.12141 a  
## WT/BR 56.30976 a  
## WT/BLK 54.99298 a  
## BRN 53.48807 a  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 246285   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 261.84846 716.508843 18 54.57463 3120.268  
## AftLow 53.76667 2.231591 18 50.10000 57.700  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 341.4177   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 261.84846 a  
## AftLow 53.76667 a  
## $statistics  
## MSerror Df Mean CV MSD  
## 246285 24 157.8076 314.4787 1461.014  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25  
## BL/BR:AftHigh 58.10948 6.927618e-01 3 57.67341 58.90829 57.71007  
## BL/BR:AftLow 56.13333 1.357694e+00 3 55.30000 57.70000 55.35000  
## BLK:AftHigh 206.15979 8.351096e+00 3 197.83150 214.53350 201.97293  
## BLK:AftLow 50.86667 6.658328e-01 3 50.10000 51.30000 50.65000  
## BRN:AftHigh 55.37613 1.127218e+00 3 54.57463 56.66504 54.73168  
## BRN:AftLow 51.60000 2.253886e+00 3 50.20000 54.20000 50.30000  
## WHT:AftHigh 1137.93990 1.719110e+03 3 56.66068 3120.26810 146.77579  
## WHT:AftLow 54.90000 6.557439e-01 3 54.20000 55.50000 54.60000  
## WT/BLK:AftHigh 56.21929 4.023746e-02 3 56.17283 56.24252 56.20767  
## WT/BLK:AftLow 53.76667 5.773503e-02 3 53.70000 53.80000 53.75000  
## WT/BR:AftHigh 57.28618 6.367579e-01 3 56.55614 57.72699 57.06577  
## WT/BR:AftLow 55.33333 9.291573e-01 3 54.30000 56.10000 54.95000  
## Q50 Q75  
## BL/BR:AftHigh 57.74673 58.32751  
## BL/BR:AftLow 55.40000 56.55000  
## BLK:AftHigh 206.11437 210.32393  
## BLK:AftLow 51.20000 51.25000  
## BRN:AftHigh 54.88873 55.77688  
## BRN:AftLow 50.40000 52.30000  
## WHT:AftHigh 236.89091 1678.57951  
## WHT:AftLow 55.00000 55.25000  
## WT/BLK:AftHigh 56.24252 56.24252  
## WT/BLK:AftLow 53.80000 53.80000  
## WT/BR:AftHigh 57.57541 57.65120  
## WT/BR:AftLow 55.60000 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WHT:AftHigh 1137.93990 a  
## BLK:AftHigh 206.15979 a  
## BL/BR:AftHigh 58.10948 a  
## WT/BR:AftHigh 57.28618 a  
## WT/BLK:AftHigh 56.21929 a  
## BL/BR:AftLow 56.13333 a  
## BRN:AftHigh 55.37613 a  
## WT/BR:AftLow 55.33333 a  
## WHT:AftLow 54.90000 a  
## WT/BLK:AftLow 53.76667 a  
## BRN:AftLow 51.60000 a  
## BLK:AftLow 50.86667 a  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT77 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 122.646 24.529 5.6261 0.0014355 \*\*   
## THIregime 1 70.024 70.024 16.0610 0.0005169 \*\*\*  
## Colour:THIregime 5 8.805 1.761 0.4039 0.8412622   
## Residuals 24 104.637 4.360   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.35989   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.70789 0.504437 6 58.2 59.37872  
## BLK 52.88973 3.016038 6 49.1 56.73909  
## BRN 54.09655 2.760965 6 49.2 56.95054  
## WHT 54.07282 3.926485 6 46.8 57.24872  
## WT/BLK 55.62175 1.378753 6 53.7 57.11369  
## WT/BR 54.57929 1.549545 6 53.1 56.04651  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.727408   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.70789 a  
## WT/BLK 55.62175 ab  
## WT/BR 54.57929 b  
## BRN 54.09655 b  
## WHT 54.07282 b  
## BLK 52.88973 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.35989   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.38934 1.829618 18 52.72923 59.37872  
## AftLow 53.60000 3.246537 18 46.80000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.436497   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.38934 a  
## AftLow 53.60000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.35989 24 54.99467 3.796795 6.147141  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.14911 0.22087318 3 58.93816 59.37872 59.03430 59.13044  
## BL/BR:AftLow 58.26667 0.05773503 3 58.20000 58.30000 58.25000 58.30000  
## BLK:AftHigh 54.81280 1.66833111 3 53.82985 56.73909 53.84965 53.86946  
## BLK:AftLow 50.96667 2.97713509 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 55.89310 1.40161483 3 54.30330 56.95054 55.36438 56.42547  
## BRN:AftLow 52.30000 2.72213152 3 49.20000 54.30000 51.30000 53.40000  
## WHT:AftHigh 55.71231 2.58381441 3 52.72923 57.24872 54.94411 57.15899  
## WHT:AftLow 52.43333 4.87886599 3 46.80000 55.30000 51.00000 55.20000  
## WT/BLK:AftHigh 56.77684 0.55353942 3 56.13798 57.11369 56.60841 57.07884  
## WT/BLK:AftLow 54.46667 0.66583281 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 55.99191 0.05360566 3 55.93935 56.04651 55.96462 55.98988  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 59.25458  
## BL/BR:AftLow 58.30000  
## BLK:AftHigh 55.30427  
## BLK:AftLow 51.90000  
## BRN:AftHigh 56.68800  
## BRN:AftLow 53.85000  
## WHT:AftHigh 57.20385  
## WHT:AftLow 55.25000  
## WT/BLK:AftHigh 57.09626  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 56.01819  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.14911 a  
## BL/BR:AftLow 58.26667 ab  
## WT/BLK:AftHigh 56.77684 abc  
## WT/BR:AftHigh 55.99191 abc  
## BRN:AftHigh 55.89310 abc  
## WHT:AftHigh 55.71231 abc  
## BLK:AftHigh 54.81280 abc  
## WT/BLK:AftLow 54.46667 abc  
## WT/BR:AftLow 53.16667 abc  
## WHT:AftLow 52.43333 bc  
## BRN:AftLow 52.30000 bc  
## BLK:AftLow 50.96667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT78 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 184.967 36.993 34.4640 3.377e-10 \*\*\*  
## THIregime 1 80.842 80.842 75.3143 7.254e-09 \*\*\*  
## Colour:THIregime 5 10.135 2.027 1.8884 0.1338   
## Residuals 24 25.761 1.073   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.073394   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.28788 1.9979029 6 53.5 58.79628  
## BLK 54.52547 0.9856685 6 53.2 55.63270  
## BRN 51.08450 2.7207374 6 48.3 53.88562  
## WHT 51.16133 2.4265018 6 47.3 53.79563  
## WT/BLK 55.91353 1.7443483 6 53.6 58.22878  
## WT/BR 56.31851 1.4322929 6 54.6 58.03277  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.849476   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.31851 a  
## BL/BR 56.28788 a  
## WT/BLK 55.91353 a  
## BLK 54.52547 a  
## WHT 51.16133 b  
## BRN 51.08450 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.073394   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.71374 2.019010 18 52.10572 58.79628  
## AftLow 52.71667 2.985898 18 47.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7127655   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.71374 a  
## AftLow 52.71667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.073394 24 54.2152 1.910991 3.050107  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.54243 1.1153702 3 56.66068 58.79628 56.91550 57.17031  
## BL/BR:AftLow 55.03333 2.0033306 3 53.50000 57.30000 53.90000 54.30000  
## BLK:AftHigh 55.35093 0.2732534 3 55.08708 55.63270 55.21005 55.33302  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 53.53567 0.3847011 3 53.12374 53.88562 53.36070 53.59766  
## BRN:AftLow 48.63333 0.5773503 3 48.30000 49.30000 48.30000 48.30000  
## WHT:AftHigh 53.05599 0.8644185 3 52.10572 53.79563 52.68617 53.26661  
## WHT:AftLow 49.26667 1.7897858 3 47.30000 50.80000 48.50000 49.70000  
## WT/BLK:AftHigh 57.29373 0.8652809 3 56.52129 58.22878 56.82620 57.13111  
## WT/BLK:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 57.50368 0.4598046 3 57.20080 58.03277 57.23913 57.27747  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.98330  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 55.48286  
## BLK:AftLow 53.95000  
## BRN:AftHigh 53.74164  
## BRN:AftLow 48.80000  
## WHT:AftHigh 53.53112  
## WHT:AftLow 50.25000  
## WT/BLK:AftHigh 57.67995  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.65512  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.54243 a  
## WT/BR:AftHigh 57.50368 a  
## WT/BLK:AftHigh 57.29373 a  
## BLK:AftHigh 55.35093 ab  
## WT/BR:AftLow 55.13333 ab  
## BL/BR:AftLow 55.03333 ab  
## WT/BLK:AftLow 54.53333 ab  
## BLK:AftLow 53.70000 b  
## BRN:AftHigh 53.53567 b  
## WHT:AftHigh 53.05599 b  
## WHT:AftLow 49.26667 c  
## BRN:AftLow 48.63333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT79 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 78.745 15.749 10.3318 2.240e-05 \*\*\*  
## THIregime 1 67.122 67.122 44.0334 7.294e-07 \*\*\*  
## Colour:THIregime 5 3.442 0.688 0.4516 0.8079   
## Residuals 24 36.584 1.524   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.524335   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.37527 1.042583 6 55.1 57.52967  
## BLK 53.84681 2.051829 6 50.2 55.99493  
## BRN 54.39809 1.978030 6 51.3 56.65023  
## WHT 51.72958 2.775524 6 47.3 54.97824  
## WT/BLK 55.73494 1.337531 6 54.2 57.09626  
## WT/BR 54.34142 1.651508 6 52.5 56.14669  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.203989   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.37527 a  
## WT/BLK 55.73494 ab  
## BRN 54.39809 ab  
## WT/BR 54.34142 ab  
## BLK 53.84681 bc  
## WHT 51.72958 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.524335   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.76981 1.421451 18 52.37827 57.52967  
## AftLow 53.03889 2.228463 18 47.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8493902   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.76981 a  
## AftLow 53.03889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.524335 24 54.40435 2.269376 3.634759  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.28388 0.2782581 3 56.98177 57.52967 57.16098 57.34019  
## BL/BR:AftLow 55.46667 0.4041452 3 55.10000 55.90000 55.25000 55.40000  
## BLK:AftHigh 55.06029 1.1679461 3 53.75098 55.99493 54.59297 55.43495  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 55.92951 0.8381081 3 55.00982 56.65023 55.56915 56.12848  
## BRN:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## WHT:AftHigh 53.62584 1.3031497 3 52.37827 54.97824 52.94963 53.52100  
## WHT:AftLow 49.83333 2.6025628 3 47.30000 52.50000 48.50000 49.70000  
## WT/BLK:AftHigh 56.93655 0.2399006 3 56.66068 57.09626 56.85669 57.05271  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 55.78283 0.3250355 3 55.52119 56.14669 55.60091 55.68062  
## WT/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 57.43493  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 55.71494  
## BLK:AftLow 53.85000  
## BRN:AftHigh 56.38935  
## BRN:AftLow 53.65000  
## WHT:AftHigh 54.24962  
## WHT:AftLow 51.10000  
## WT/BLK:AftHigh 57.07448  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 55.91365  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.28388 a  
## WT/BLK:AftHigh 56.93655 ab  
## BRN:AftHigh 55.92951 abc  
## WT/BR:AftHigh 55.78283 abc  
## BL/BR:AftLow 55.46667 abc  
## BLK:AftHigh 55.06029 abc  
## WT/BLK:AftLow 54.53333 abc  
## WHT:AftHigh 53.62584 bc  
## WT/BR:AftLow 52.90000 cd  
## BRN:AftLow 52.86667 cd  
## BLK:AftLow 52.63333 cd  
## WHT:AftLow 49.83333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT80 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.837 42.367 34.8597 2.999e-10 \*\*\*  
## THIregime 1 94.904 94.904 78.0868 5.193e-09 \*\*\*  
## Colour:THIregime 5 5.690 1.138 0.9363 0.4753   
## Residuals 24 29.169 1.215   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.215372   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.84857 1.908065 6 53.5 58.27452  
## BLK 50.42863 2.096097 6 48.1 52.76657  
## BRN 51.25318 2.535580 6 48.3 53.62902  
## WHT 51.39755 2.527390 6 47.3 54.31506  
## WT/BLK 56.48776 1.476138 6 54.3 58.17651  
## WT/BR 54.92620 1.709533 6 52.6 56.59970  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.967994   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.48776 a  
## BL/BR 55.84857 a  
## WT/BR 54.92620 a  
## WHT 51.39755 b  
## BRN 51.25318 b  
## BLK 50.42863 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.215372   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.01396 2.231545 18 52.00118 58.27452  
## AftLow 51.76667 3.087356 18 47.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7584407   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.01396 a  
## AftLow 51.76667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.215372 24 53.39032 2.064867 3.245563  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.03048 1.0806241 3 56.32466 58.27452 56.40846 56.49225  
## BL/BR:AftLow 54.66667 1.9347696 3 53.50000 56.90000 53.55000 53.60000  
## BLK:AftHigh 52.29059 0.4123540 3 52.04166 52.76657 52.05260 52.06353  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 53.53969 0.1232838 3 53.39903 53.62902 53.49502 53.59101  
## BRN:AftLow 48.96667 0.6110101 3 48.30000 49.50000 48.70000 49.10000  
## WHT:AftHigh 53.16176 1.1569576 3 52.00118 54.31506 52.58511 53.16904  
## WHT:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## WT/BLK:AftHigh 57.64219 0.7655039 3 56.76522 58.17651 57.37504 57.98485  
## WT/BLK:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 56.41908 0.3113386 3 56.05958 56.59970 56.32877 56.59796  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 57.38339  
## BL/BR:AftLow 55.25000  
## BLK:AftHigh 52.41505  
## BLK:AftLow 48.80000  
## BRN:AftHigh 53.61001  
## BRN:AftLow 49.30000  
## WHT:AftHigh 53.74205  
## WHT:AftLow 50.80000  
## WT/BLK:AftHigh 58.08068  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 56.59883  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.64219 a  
## BL/BR:AftHigh 57.03048 a  
## WT/BR:AftHigh 56.41908 ab  
## WT/BLK:AftLow 55.33333 abc  
## BL/BR:AftLow 54.66667 abc  
## BRN:AftHigh 53.53969 bc  
## WT/BR:AftLow 53.43333 bc  
## WHT:AftHigh 53.16176 c  
## BLK:AftHigh 52.29059 cd  
## WHT:AftLow 49.63333 de  
## BRN:AftLow 48.96667 e  
## BLK:AftLow 48.56667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT81 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 171.492 34.298 24.1710 1.210e-08 \*\*\*  
## THIregime 1 77.085 77.085 54.3240 1.305e-07 \*\*\*  
## Colour:THIregime 5 7.956 1.591 1.1214 0.3757   
## Residuals 24 34.056 1.419   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.418983   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.57414 1.239685 6 54.9 57.86870  
## BLK 51.21332 2.096974 6 49.2 53.15859  
## BRN 54.24060 2.410178 6 50.2 56.82272  
## WHT 51.65094 2.739848 6 47.3 54.78876  
## WT/BLK 54.32506 1.726428 6 51.6 56.13798  
## WT/BR 56.94241 1.260550 6 54.8 58.39430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.126463   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.94241 a  
## BL/BR 56.57414 a  
## WT/BLK 54.32506 b  
## BRN 54.24060 b  
## WHT 51.65094 c  
## BLK 51.21332 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.418983   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.62104 1.939893 18 52.54255 58.3943  
## AftLow 52.69444 2.965780 18 47.30000 57.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8195127   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.62104 a  
## AftLow 52.69444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.418983 24 54.15774 2.199521 3.506906  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.64828 0.33274959 3 57.26552 57.86870 57.53807 57.81062  
## BL/BR:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 53.12663 0.03023541 3 53.09848 53.15859 53.11065 53.12283  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 55.98120 1.18462797 3 54.62651 56.82272 55.56044 56.49437  
## BRN:AftLow 52.50000 2.00748599 3 50.20000 53.90000 51.80000 53.40000  
## WHT:AftHigh 53.66854 1.12311610 3 52.54255 54.78876 53.10844 53.67432  
## WHT:AftLow 49.63333 2.30072452 3 47.30000 51.90000 48.50000 49.70000  
## WT/BLK:AftHigh 55.65013 0.84498676 3 54.67442 56.13798 55.40620 56.13798  
## WT/BLK:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 57.65149 0.94908454 3 56.58228 58.39430 57.28008 57.97788  
## WT/BR:AftLow 56.23333 1.25033329 3 54.80000 57.10000 55.80000 56.80000  
## Q75  
## BL/BR:AftHigh 57.83966  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 53.14071  
## BLK:AftLow 49.35000  
## BRN:AftHigh 56.65854  
## BRN:AftLow 53.65000  
## WHT:AftHigh 54.23154  
## WHT:AftLow 50.80000  
## WT/BLK:AftHigh 56.13798  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 58.18609  
## WT/BR:AftLow 56.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.65149 a  
## BL/BR:AftHigh 57.64828 a  
## WT/BR:AftLow 56.23333 ab  
## BRN:AftHigh 55.98120 abc  
## WT/BLK:AftHigh 55.65013 abc  
## BL/BR:AftLow 55.50000 abc  
## WHT:AftHigh 53.66854 bc  
## BLK:AftHigh 53.12663 bcd  
## WT/BLK:AftLow 53.00000 bcd  
## BRN:AftLow 52.50000 cde  
## WHT:AftLow 49.63333 de  
## BLK:AftLow 49.30000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT82 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 140.788 28.158 5.0662 0.002611 \*\*  
## THIregime 1 77.419 77.419 13.9295 0.001034 \*\*  
## Colour:THIregime 5 7.995 1.599 0.2877 0.915141   
## Residuals 24 133.389 5.558   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.557895   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.66915 1.430802 6 54.7 58.14664  
## BLK 52.01055 2.022075 6 50.1 53.92338  
## BRN 53.42883 2.684759 6 50.1 56.68682  
## WHT 52.10036 3.069632 6 47.3 55.74922  
## WT/BLK 56.01298 3.801421 6 50.1 59.29160  
## WT/BR 56.34359 2.557998 6 51.7 58.57376  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.208471   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.66915 a  
## WT/BR 56.34359 a  
## WT/BLK 56.01298 ab  
## BRN 53.42883 ab  
## WHT 52.10036 b  
## BLK 52.01055 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.557895   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89404 2.283576 18 52.37454 59.2916  
## AftLow 52.96111 3.373973 18 47.30000 58.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.621893   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89404 a  
## AftLow 52.96111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 5.557895 24 54.42758 4.331479 6.940498  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.90496 0.35063439 3 57.50281 58.14664 57.78412 58.06544  
## BL/BR:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 53.85443 0.09456398 3 53.74663 53.92338 53.81995 53.89327  
## BLK:AftLow 50.16667 0.11547005 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 55.39099 1.12527299 3 54.66016 56.68682 54.74308 54.82600  
## BRN:AftLow 51.46667 2.28108161 3 50.10000 54.10000 50.15000 50.20000  
## WHT:AftHigh 54.00073 1.61630587 3 52.56122 55.74922 53.12648 53.69174  
## WHT:AftLow 50.20000 3.17962262 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 56.69262 3.76535863 3 52.37454 59.29160 55.39313 58.41173  
## WT/BLK:AftLow 55.33333 4.53468117 3 50.10000 58.10000 53.95000 57.80000  
## WT/BR:AftHigh 57.52052 1.77470506 3 55.47154 58.57376 56.99390 58.51627  
## WT/BR:AftLow 55.16667 3.00887576 3 51.70000 57.10000 54.20000 56.70000  
## Q75  
## BL/BR:AftHigh 58.10604  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 53.90833  
## BLK:AftLow 50.20000  
## BRN:AftHigh 55.75641  
## BRN:AftLow 52.15000  
## WHT:AftHigh 54.72048  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 58.85166  
## WT/BLK:AftLow 57.95000  
## WT/BR:AftHigh 58.54501  
## WT/BR:AftLow 56.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.90496 a  
## WT/BR:AftHigh 57.52052 a  
## WT/BLK:AftHigh 56.69262 ab  
## BL/BR:AftLow 55.43333 ab  
## BRN:AftHigh 55.39099 ab  
## WT/BLK:AftLow 55.33333 ab  
## WT/BR:AftLow 55.16667 ab  
## WHT:AftHigh 54.00073 ab  
## BLK:AftHigh 53.85443 ab  
## BRN:AftLow 51.46667 ab  
## WHT:AftLow 50.20000 b  
## BLK:AftLow 50.16667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT83 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 143.171 28.634 95.3289 4.991e-15 \*\*\*  
## THIregime 1 63.528 63.528 211.4976 2.126e-13 \*\*\*  
## Colour:THIregime 5 9.291 1.858 6.1865 0.0008094 \*\*\*  
## Residuals 24 7.209 0.300   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3003717   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.46303 0.7366826 6 54.6 56.19678  
## BLK 50.76391 1.7615806 6 48.6 52.77441  
## BRN 50.40068 2.2774991 6 48.1 52.79793  
## WHT 50.01695 2.1598238 6 47.3 52.58710  
## WT/BLK 51.71383 1.3243425 6 50.2 53.21086  
## WT/BR 53.94537 0.8683371 6 53.1 54.96191  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.97836   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.46303 a  
## WT/BR 53.94537 b  
## WT/BLK 51.71383 c  
## BLK 50.76391 cd  
## BRN 50.40068 d  
## WHT 50.01695 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3003717   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.37904 1.613902 18 51.37768 56.19678  
## AftLow 50.72222 2.605324 18 47.30000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3770479   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.37904 a  
## AftLow 50.72222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3003717 24 52.05063 1.05294 1.613485  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.12605 0.08910756 3 56.02597 56.19678 56.09069 56.15540  
## BL/BR:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 52.26115 0.45758194 3 51.89586 52.77441 52.00452 52.11319  
## BLK:AftLow 49.26667 0.90737717 3 48.60000 50.30000 48.75000 48.90000  
## BRN:AftHigh 52.46802 0.28714762 3 52.27436 52.79793 52.30306 52.33177  
## BRN:AftLow 48.33333 0.25166115 3 48.10000 48.60000 48.20000 48.30000  
## WHT:AftHigh 51.80058 0.68179819 3 51.37768 52.58710 51.40731 51.43695  
## WHT:AftLow 48.23333 1.28582010 3 47.30000 49.70000 47.50000 47.70000  
## WT/BLK:AftHigh 52.89434 0.28394332 3 52.66203 53.21086 52.73607 52.81012  
## WT/BLK:AftLow 50.53333 0.35118846 3 50.20000 50.90000 50.35000 50.50000  
## WT/BR:AftHigh 54.72408 0.22922943 3 54.50454 54.96191 54.60516 54.70578  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 56.17609  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 52.44380  
## BLK:AftLow 49.60000  
## BRN:AftHigh 52.56485  
## BRN:AftLow 48.45000  
## WHT:AftHigh 52.01203  
## WHT:AftLow 48.70000  
## WT/BLK:AftHigh 53.01049  
## WT/BLK:AftLow 50.70000  
## WT/BR:AftHigh 54.83384  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.12605 a  
## BL/BR:AftLow 54.80000 a  
## WT/BR:AftHigh 54.72408 ab  
## WT/BR:AftLow 53.16667 bc  
## WT/BLK:AftHigh 52.89434 c  
## BRN:AftHigh 52.46802 c  
## BLK:AftHigh 52.26115 c  
## WHT:AftHigh 51.80058 cd  
## WT/BLK:AftLow 50.53333 de  
## BLK:AftLow 49.26667 ef  
## BRN:AftLow 48.33333 f  
## WHT:AftLow 48.23333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT84 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 127.574 25.515 12.1848 5.982e-06 \*\*\*  
## THIregime 1 76.681 76.681 36.6194 3.003e-06 \*\*\*  
## Colour:THIregime 5 5.955 1.191 0.5687 0.7231   
## Residuals 24 50.256 2.094   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.093986   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.53834 2.037135 6 53.9 59.66330  
## BLK 55.80273 1.172551 6 54.3 57.02107  
## BRN 56.13177 1.783697 6 54.2 57.97614  
## WHT 52.40793 3.299629 6 47.3 56.32419  
## WT/BLK 58.35028 1.836107 6 55.3 60.40670  
## WT/BR 56.75903 1.900775 6 54.6 59.10430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.583189   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.35028 a  
## BL/BR 57.53834 a  
## WT/BR 56.75903 a  
## BRN 56.13177 a  
## BLK 55.80273 a  
## WHT 52.40793 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.093986   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.62447 1.834550 18 53.21833 60.4067  
## AftLow 54.70556 2.728601 18 47.30000 58.3000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9955292   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.62447 a  
## AftLow 54.70556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.093986 24 56.16501 2.576446 4.260125  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.74336 1.2063592 3 57.37753 59.66330 58.28338 59.18924  
## BL/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 56.83879 0.2087727 3 56.61102 57.02107 56.74765 56.88428  
## BLK:AftLow 54.76667 0.4163332 3 54.30000 55.10000 54.60000 54.90000  
## BRN:AftHigh 57.73021 0.2135263 3 57.59204 57.97614 57.60724 57.62245  
## BRN:AftLow 54.53333 0.4932883 3 54.20000 55.10000 54.25000 54.30000  
## WHT:AftHigh 54.61585 1.5760872 3 53.21833 56.32419 53.76169 54.30505  
## WHT:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 59.43389 1.4150046 3 57.81062 60.40670 58.94749 60.08437  
## WT/BLK:AftLow 57.26667 1.7039171 3 55.30000 58.30000 56.75000 58.20000  
## WT/BR:AftHigh 58.38472 0.6327711 3 57.91516 59.10430 58.02493 58.13469  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 59.42627  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 56.95267  
## BLK:AftLow 55.00000  
## BRN:AftHigh 57.79929  
## BRN:AftLow 54.70000  
## WHT:AftHigh 55.31462  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 60.24553  
## WT/BLK:AftLow 58.25000  
## WT/BR:AftHigh 58.61950  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.43389 a  
## BL/BR:AftHigh 58.74336 ab  
## WT/BR:AftHigh 58.38472 ab  
## BRN:AftHigh 57.73021 ab  
## WT/BLK:AftLow 57.26667 ab  
## BLK:AftHigh 56.83879 ab  
## BL/BR:AftLow 56.33333 ab  
## WT/BR:AftLow 55.13333 b  
## BLK:AftLow 54.76667 b  
## WHT:AftHigh 54.61585 b  
## BRN:AftLow 54.53333 b  
## WHT:AftLow 50.20000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT85 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 254.343 50.869 54.1791 2.724e-12 \*\*\*  
## THIregime 1 108.960 108.960 116.0504 1.127e-10 \*\*\*  
## Colour:THIregime 5 3.590 0.718 0.7648 0.5841   
## Residuals 24 22.534 0.939   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9388987   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.64299 2.044590 6 53.1 58.01970  
## BLK 51.37455 2.273632 6 49.2 53.49835  
## BRN 55.62877 1.758705 6 53.4 57.37504  
## WHT 51.90375 2.943262 6 47.3 55.27553  
## WT/BLK 58.73997 1.436062 6 57.3 60.16277  
## WT/BR 57.21500 1.961841 6 54.3 59.56689  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.729731   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.73997 a  
## WT/BR 57.21500 ab  
## BL/BR 55.64299 b  
## BRN 55.62877 b  
## WHT 51.90375 c  
## BLK 51.37455 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9388987   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.82390 2.480307 18 52.97191 60.16277  
## AftLow 53.34444 3.216542 18 47.30000 57.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.666617   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.82390 a  
## AftLow 53.34444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9388987 24 55.08417 1.759068 2.852626  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.41932 0.58439772 3 56.85234 58.01970 57.11913 57.38593  
## BL/BR:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 53.44910 0.04719719 3 53.40426 53.49835 53.42448 53.44470  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 57.19088 0.26220974 3 56.89067 57.37504 57.09880 57.30693  
## BRN:AftLow 54.06667 0.58594653 3 53.40000 54.50000 53.85000 54.30000  
## WHT:AftHigh 54.10750 1.15214937 3 52.97191 55.27553 53.52348 54.07506  
## WHT:AftLow 49.70000 2.40000000 3 47.30000 52.10000 48.50000 49.70000  
## WT/BLK:AftHigh 60.04661 0.10209142 3 59.97111 60.16277 59.98854 60.00596  
## WT/BLK:AftLow 57.43333 0.15275252 3 57.30000 57.60000 57.35000 57.40000  
## WT/BR:AftHigh 58.72999 0.79146119 3 57.99356 59.56689 58.31154 58.62952  
## WT/BR:AftLow 55.70000 1.45258390 3 54.30000 57.20000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 57.70281  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 53.47152  
## BLK:AftLow 49.35000  
## BRN:AftHigh 57.34098  
## BRN:AftLow 54.40000  
## WHT:AftHigh 54.67529  
## WHT:AftLow 50.90000  
## WT/BLK:AftHigh 60.08437  
## WT/BLK:AftLow 57.50000  
## WT/BR:AftHigh 59.09820  
## WT/BR:AftLow 56.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.04661 a  
## WT/BR:AftHigh 58.72999 ab  
## WT/BLK:AftLow 57.43333 abc  
## BL/BR:AftHigh 57.41932 abc  
## BRN:AftHigh 57.19088 bc  
## WT/BR:AftLow 55.70000 cd  
## WHT:AftHigh 54.10750 d  
## BRN:AftLow 54.06667 d  
## BL/BR:AftLow 53.86667 d  
## BLK:AftHigh 53.44910 d  
## WHT:AftLow 49.70000 e  
## BLK:AftLow 49.30000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT86 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 306.097 61.219 48.730 8.609e-12 \*\*\*  
## THIregime 1 108.559 108.559 86.412 2.006e-09 \*\*\*  
## Colour:THIregime 5 10.201 2.040 1.624 0.1918   
## Residuals 24 30.151 1.256   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.256298   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.62718 1.126015 6 57.1 59.91884  
## BLK 52.22139 2.253144 6 50.1 54.34429  
## BRN 56.19389 1.850137 6 54.2 58.08939  
## WHT 51.18315 2.986122 6 47.3 54.39565  
## WT/BLK 58.78347 1.484246 6 57.1 60.55480  
## WT/BR 56.27675 2.982416 6 51.5 59.97983  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.000854   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.78347 a  
## BL/BR 58.62718 a  
## WT/BR 56.27675 b  
## BRN 56.19389 b  
## BLK 52.22139 c  
## WHT 51.18315 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.256298   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.28417 2.594470 18 53.3154 60.5548  
## AftLow 53.81111 3.694334 18 47.3000 58.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7711047   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.28417 a  
## AftLow 53.81111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.256298 24 55.54764 2.017812 3.299755  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.58770 0.3723883 3 59.18457 59.91884 59.42212 59.65967  
## BL/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 54.27612 0.1123093 3 54.14649 54.34429 54.24203 54.33757  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 57.85444 0.2045940 3 57.71558 58.08939 57.73697 57.75835  
## BRN:AftLow 54.53333 0.4932883 3 54.20000 55.10000 54.25000 54.30000  
## WHT:AftHigh 53.79962 0.5487327 3 53.31540 54.39565 53.50161 53.68782  
## WHT:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## WT/BLK:AftHigh 60.06694 0.4422404 3 59.69234 60.55480 59.82302 59.95369  
## WT/BLK:AftLow 57.50000 0.6082763 3 57.10000 58.20000 57.15000 57.20000  
## WT/BR:AftHigh 58.12017 1.9050137 3 56.17283 59.97983 57.19035 58.20787  
## WT/BR:AftLow 54.43333 2.9005747 3 51.50000 57.30000 53.00000 54.50000  
## Q75  
## BL/BR:AftHigh 59.78926  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 54.34093  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.92387  
## BRN:AftLow 54.70000  
## WHT:AftHigh 54.04174  
## WHT:AftLow 49.20000  
## WT/BLK:AftHigh 60.25424  
## WT/BLK:AftLow 57.70000  
## WT/BR:AftHigh 59.09385  
## WT/BR:AftLow 55.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.06694 a  
## BL/BR:AftHigh 59.58770 a  
## WT/BR:AftHigh 58.12017 a  
## BRN:AftHigh 57.85444 a  
## BL/BR:AftLow 57.66667 ab  
## WT/BLK:AftLow 57.50000 abc  
## BRN:AftLow 54.53333 bcd  
## WT/BR:AftLow 54.43333 bcd  
## BLK:AftHigh 54.27612 cd  
## WHT:AftHigh 53.79962 d  
## BLK:AftLow 50.16667 e  
## WHT:AftLow 48.56667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT87 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 144.186 28.837 11.5270 9.406e-06 \*\*\*  
## THIregime 1 81.616 81.616 32.6240 6.950e-06 \*\*\*  
## Colour:THIregime 5 5.952 1.190 0.4758 0.7906   
## Residuals 24 60.041 2.502   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.501712   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.62150 1.486025 6 54.8 58.48432  
## BLK 53.10491 2.138145 6 49.4 55.38007  
## BRN 52.19708 2.506138 6 49.4 54.82600  
## WHT 52.00076 2.999527 6 47.3 55.56301  
## WT/BLK 56.07875 1.358939 6 54.6 57.58412  
## WT/BR 56.39784 2.370071 6 53.1 59.32645  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.8235   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.62150 a  
## WT/BR 56.39784 a  
## WT/BLK 56.07875 a  
## BLK 53.10491 b  
## BRN 52.19708 b  
## WHT 52.00076 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.501712   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.90583 1.933756 18 52.34841 59.32645  
## AftLow 52.89444 2.936679 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.088142   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.90583 a  
## AftLow 52.89444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.501712 24 54.40014 2.907493 4.656441  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.77633 0.6135514 3 57.39993 58.48432 57.42233 57.44473  
## BL/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 54.54315 1.1000995 3 53.29711 55.38007 54.12469 54.95228  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 54.46083 0.3388844 3 54.15647 54.82600 54.27824 54.40000  
## BRN:AftLow 49.93333 0.4618802 3 49.40000 50.20000 49.80000 50.20000  
## WHT:AftHigh 53.80151 1.6293407 3 52.34841 55.56301 52.92076 53.49312  
## WHT:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 57.29082 0.2570065 3 57.10498 57.58412 57.14418 57.18338  
## WT/BLK:AftLow 54.86667 0.3785939 3 54.60000 55.30000 54.65000 54.70000  
## WT/BR:AftHigh 57.56234 1.6004887 3 56.20332 59.32645 56.68028 57.15725  
## WT/BR:AftLow 55.23333 2.7227437 3 53.10000 58.30000 53.70000 54.30000  
## Q75  
## BL/BR:AftHigh 57.96453  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 55.16617  
## BLK:AftLow 52.80000  
## BRN:AftHigh 54.61300  
## BRN:AftLow 50.20000  
## WHT:AftHigh 54.52806  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 57.38375  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 58.24185  
## WT/BR:AftLow 56.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.77633 a  
## WT/BR:AftHigh 57.56234 a  
## WT/BLK:AftHigh 57.29082 a  
## BL/BR:AftLow 55.46667 ab  
## WT/BR:AftLow 55.23333 ab  
## WT/BLK:AftLow 54.86667 ab  
## BLK:AftHigh 54.54315 abc  
## BRN:AftHigh 54.46083 abc  
## WHT:AftHigh 53.80151 abc  
## BLK:AftLow 51.66667 bc  
## WHT:AftLow 50.20000 c  
## BRN:AftLow 49.93333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT88 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 161.398 32.280 27.5124 3.357e-09 \*\*\*  
## THIregime 1 76.506 76.506 65.2072 2.674e-08 \*\*\*  
## Colour:THIregime 5 7.853 1.571 1.3386 0.2821   
## Residuals 24 28.159 1.173   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.173271   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.79634 1.303279 6 55.2 58.12424  
## BLK 55.44100 1.267826 6 53.3 56.71295  
## BRN 55.65102 1.727137 6 53.2 57.56234  
## WHT 51.25685 2.726608 6 47.3 53.97400  
## WT/BLK 58.14795 1.918257 6 55.1 60.42412  
## WT/BR 54.98694 2.258395 6 51.4 57.46215  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.933608   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.14795 a  
## BL/BR 56.79634 ab  
## BRN 55.65102 b  
## BLK 55.44100 b  
## WT/BR 54.98694 b  
## WHT 51.25685 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.173271   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.83781 1.902285 18 52.86364 60.42412  
## AftLow 53.92222 2.827295 18 47.30000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7451888   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.83781 a  
## AftLow 53.92222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.173271 24 55.38002 1.955898 3.188854  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.95934 0.2127835 3 57.71915 58.12424 57.87689 58.03463  
## BL/BR:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## BLK:AftHigh 56.38200 0.5310379 3 55.76948 56.71295 56.21653 56.66358  
## BLK:AftLow 54.50000 1.0392305 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 57.10204 0.4807390 3 56.60318 57.56234 56.87190 57.14061  
## BRN:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## WHT:AftHigh 53.58036 0.6217008 3 52.86364 53.97400 53.38354 53.90344  
## WHT:AftLow 48.93333 1.4153916 3 47.30000 49.80000 48.50000 49.70000  
## WT/BLK:AftHigh 59.26256 1.4760899 3 57.60154 60.42412 58.68179 59.76203  
## WT/BLK:AftLow 57.03333 1.8147543 3 55.10000 58.70000 56.20000 57.30000  
## WT/BR:AftHigh 56.74054 0.7630089 3 55.94197 57.46215 56.37973 56.81749  
## WT/BR:AftLow 53.23333 1.7156146 3 51.40000 54.80000 52.45000 53.50000  
## Q75  
## BL/BR:AftHigh 58.07944  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 56.68827  
## BLK:AftLow 55.10000  
## BRN:AftHigh 57.35148  
## BRN:AftLow 54.70000  
## WHT:AftHigh 53.93872  
## WHT:AftLow 49.75000  
## WT/BLK:AftHigh 60.09308  
## WT/BLK:AftLow 58.00000  
## WT/BR:AftHigh 57.13982  
## WT/BR:AftLow 54.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.26256 a  
## BL/BR:AftHigh 57.95934 ab  
## BRN:AftHigh 57.10204 abc  
## WT/BLK:AftLow 57.03333 abc  
## WT/BR:AftHigh 56.74054 abcd  
## BLK:AftHigh 56.38200 abcde  
## BL/BR:AftLow 55.63333 bcde  
## BLK:AftLow 54.50000 cde  
## BRN:AftLow 54.20000 cde  
## WHT:AftHigh 53.58036 de  
## WT/BR:AftLow 53.23333 e  
## WHT:AftLow 48.93333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT89 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 218.032 43.606 15.9893 5.811e-07 \*\*\*  
## THIregime 1 95.833 95.833 35.1394 4.070e-06 \*\*\*  
## Colour:THIregime 5 7.364 1.473 0.5401 0.744   
## Residuals 24 65.453 2.727   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.72722   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.09469 1.829571 6 53.7 58.25201  
## BLK 52.96444 2.198633 6 50.2 55.70153  
## BRN 51.45400 2.938675 6 48.1 54.99327  
## WHT 51.97658 2.977107 6 47.3 55.51074  
## WT/BLK 57.06022 1.766970 6 54.3 59.11737  
## WT/BR 57.53950 2.219822 6 53.6 59.92756  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.948012   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.53950 a  
## WT/BLK 57.06022 a  
## BL/BR 56.09469 a  
## BLK 52.96444 b  
## WHT 51.97658 b  
## BRN 51.45400 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.72722   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.14648 2.398832 18 52.35214 59.92756  
## AftLow 52.88333 3.369631 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.136128   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.14648 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.72722 24 54.5149 3.029318 4.861782  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.58937 0.5797114 3 57.17591 58.25201 57.25805 57.34019  
## BL/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## BLK:AftHigh 54.32887 1.1915980 3 53.56024 55.70153 53.64255 53.72485  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 54.00800 0.8548383 3 53.46350 54.99327 53.51537 53.56725  
## BRN:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## WHT:AftHigh 53.78649 1.5991305 3 52.35214 55.51074 52.92437 53.49660  
## WHT:AftLow 50.16667 3.1262331 3 47.30000 53.50000 48.50000 49.70000  
## WT/BLK:AftHigh 58.42044 0.8335932 3 57.49700 59.11737 58.07197 58.64694  
## WT/BLK:AftLow 55.70000 1.2489996 3 54.30000 56.70000 55.20000 56.10000  
## WT/BR:AftHigh 58.74567 1.4110838 3 57.18338 59.92756 58.15473 59.12608  
## WT/BR:AftLow 56.33333 2.4419937 3 53.60000 58.30000 55.35000 57.10000  
## Q75  
## BL/BR:AftHigh 57.79610  
## BL/BR:AftLow 55.05000  
## BLK:AftHigh 54.71319  
## BLK:AftLow 52.30000  
## BRN:AftHigh 54.28026  
## BRN:AftLow 49.30000  
## WHT:AftHigh 54.50367  
## WHT:AftLow 51.60000  
## WT/BLK:AftHigh 58.88216  
## WT/BLK:AftLow 56.40000  
## WT/BR:AftHigh 59.52682  
## WT/BR:AftLow 57.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.74567 a  
## WT/BLK:AftHigh 58.42044 ab  
## BL/BR:AftHigh 57.58937 ab  
## WT/BR:AftLow 56.33333 abc  
## WT/BLK:AftLow 55.70000 abc  
## BL/BR:AftLow 54.60000 abcd  
## BLK:AftHigh 54.32887 abcd  
## BRN:AftHigh 54.00800 abcd  
## WHT:AftHigh 53.78649 bcd  
## BLK:AftLow 51.60000 cde  
## WHT:AftLow 50.16667 de  
## BRN:AftLow 48.90000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT90 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 77.453 15.491 5.9266 0.001052 \*\*   
## THIregime 1 63.814 63.814 24.4147 4.826e-05 \*\*\*  
## Colour:THIregime 5 4.744 0.949 0.3630 0.868695   
## Residuals 24 62.730 2.614   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.613738   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91400 1.496437 6 54.8 58.66187  
## BLK 53.02521 2.886466 6 49.3 56.58228  
## BRN 54.71435 2.692347 6 49.9 57.47087  
## WHT 56.56720 1.276805 6 55.1 57.93756  
## WT/BLK 55.39310 2.018551 6 52.4 58.08939  
## WT/BR 57.27447 1.653175 6 54.3 58.92920  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.886026   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.27447 a  
## BL/BR 56.91400 a  
## WHT 56.56720 a  
## WT/BLK 55.39310 ab  
## BRN 54.71435 ab  
## BLK 53.02521 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.613738   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.97945 1.545804 18 54.14301 58.9292  
## AftLow 54.31667 2.477012 18 49.30000 57.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.112239   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.97945 a  
## AftLow 54.31667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.613738 24 55.64806 2.905234 4.759557  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data1[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.12801 0.5166123 3 57.63058 58.66187 57.86108 58.09157  
## BL/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## BLK:AftHigh 54.98376 1.3849758 3 54.14301 56.58228 54.18450 54.22600  
## BLK:AftLow 51.06667 2.7209067 3 49.30000 54.20000 49.50000 49.70000  
## BRN:AftHigh 56.39537 1.4251422 3 54.77896 57.47087 55.85762 56.93629  
## BRN:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## WHT:AftHigh 57.70106 0.2128514 3 57.52488 57.93756 57.58281 57.64074  
## WHT:AftLow 55.43333 0.4163332 3 55.10000 55.90000 55.20000 55.30000  
## WT/BLK:AftHigh 56.35287 1.6611970 3 54.77896 58.08939 55.48461 56.19025  
## WT/BLK:AftLow 54.43333 2.1594752 3 52.40000 56.70000 53.30000 54.20000  
## WT/BR:AftHigh 58.31561 0.8816105 3 57.30534 58.92920 58.00881 58.71228  
## WT/BR:AftLow 56.23333 1.6743158 3 54.30000 57.20000 55.75000 57.20000  
## Q75  
## BL/BR:AftHigh 58.37672  
## BL/BR:AftLow 56.15000  
## BLK:AftHigh 55.40414  
## BLK:AftLow 51.95000  
## BRN:AftHigh 57.20358  
## BRN:AftLow 54.60000  
## WHT:AftHigh 57.78915  
## WHT:AftLow 55.60000  
## WT/BLK:AftHigh 57.13982  
## WT/BLK:AftLow 55.45000  
## WT/BR:AftHigh 58.82074  
## WT/BR:AftLow 57.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.31561 a  
## BL/BR:AftHigh 58.12801 a  
## WHT:AftHigh 57.70106 ab  
## BRN:AftHigh 56.39537 ab  
## WT/BLK:AftHigh 56.35287 ab  
## WT/BR:AftLow 56.23333 ab  
## BL/BR:AftLow 55.70000 abc  
## WHT:AftLow 55.43333 abc  
## BLK:AftHigh 54.98376 abc  
## WT/BLK:AftLow 54.43333 abc  
## BRN:AftLow 53.03333 bc  
## BLK:AftLow 51.06667 c  
##   
## attr(,"class")  
## [1] "group"

# Pulse Rate (Sheet Two for Morning High THI)

# Fit the second model for Pulse Rate

## [1] "---- PULRAT1 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 56.014 11.203 7.9600 0.0001537 \*\*\*  
## THIregime 1 184.314 184.314 130.9622 3.316e-11 \*\*\*  
## Colour:THIregime 5 68.895 13.779 9.7906 3.388e-05 \*\*\*  
## Residuals 24 33.777 1.407   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.407386   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.27512 2.374199 6 51.30000 56.53291  
## BLK 53.49331 5.180136 6 48.40000 59.33745  
## BRN 51.96055 2.237444 6 49.30000 54.50193  
## WHT 55.71876 0.382997 6 55.09911 56.10000  
## WT/BLK 55.41521 3.628547 6 50.10000 59.70976  
## WT/BR 54.37996 2.570521 6 51.40000 57.17031  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.117755   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WHT 55.71876 a  
## WT/BLK 55.41521 ab  
## WT/BR 54.37996 ab  
## BL/BR 54.27512 ab  
## BLK 53.49331 bc  
## BRN 51.96055 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.407386   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.46986 1.81824 18 53.53755 59.70976  
## AftLow 51.94444 2.45530 18 48.40000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8161569   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.46986 a  
## AftLow 51.94444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.407386 24 54.20715 2.188517 3.492545  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.31691 0.3492661 3 55.91397 56.53291 56.20892 56.50387  
## BL/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## BLK:AftHigh 58.05328 2.0002854 3 55.74857 59.33745 57.41119 59.07381  
## BLK:AftLow 48.93333 0.8386497 3 48.40000 49.90000 48.45000 48.50000  
## BRN:AftHigh 53.95444 0.4952771 3 53.53755 54.50193 53.68070 53.82384  
## BRN:AftLow 49.96667 0.5859465 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 55.60418 0.4837365 3 55.09911 56.06331 55.37462 55.65013  
## WHT:AftLow 55.83333 0.3055050 3 55.50000 56.10000 55.70000 55.90000  
## WT/BLK:AftHigh 58.33042 1.7608417 3 56.34706 59.70976 57.64074 58.93443  
## WT/BLK:AftLow 52.50000 2.0784610 3 50.10000 53.70000 51.90000 53.70000  
## WT/BR:AftHigh 56.55992 0.8844793 3 55.54559 57.17031 56.25472 56.96385  
## WT/BR:AftLow 52.20000 1.2165525 3 51.40000 53.60000 51.50000 51.60000  
## Q75  
## BL/BR:AftHigh 56.51839  
## BL/BR:AftLow 52.70000  
## BLK:AftHigh 59.20563  
## BLK:AftLow 49.20000  
## BRN:AftHigh 54.16289  
## BRN:AftLow 50.30000  
## WHT:AftHigh 55.85672  
## WHT:AftLow 56.00000  
## WT/BLK:AftHigh 59.32209  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 57.06708  
## WT/BR:AftLow 52.60000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 58.33042 a  
## BLK:AftHigh 58.05328 a  
## WT/BR:AftHigh 56.55992 ab  
## BL/BR:AftHigh 56.31691 ab  
## WHT:AftLow 55.83333 abc  
## WHT:AftHigh 55.60418 abcd  
## BRN:AftHigh 53.95444 bcd  
## WT/BLK:AftLow 52.50000 cde  
## BL/BR:AftLow 52.23333 def  
## WT/BR:AftLow 52.20000 def  
## BRN:AftLow 49.96667 ef  
## BLK:AftLow 48.93333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT2 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 86.385 17.277 32.067 7.101e-10 \*\*\*  
## THIregime 1 75.010 75.010 139.224 1.771e-11 \*\*\*  
## Colour:THIregime 5 96.598 19.320 35.858 2.236e-10 \*\*\*  
## Residuals 24 12.931 0.539   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5387749   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.83871 0.7803515 6 53.60000 56.01602  
## BLK 54.45543 2.9828506 6 50.10000 57.24436  
## BRN 52.06053 4.6882986 6 47.20000 56.47774  
## WHT 55.54226 0.7599316 6 54.30000 56.42220  
## WT/BLK 57.27877 1.0054861 6 55.91148 58.50000  
## WT/BR 55.15184 1.9577631 6 52.60000 57.35064  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.310306   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.27877 a  
## WHT 55.54226 b  
## WT/BR 55.15184 b  
## BL/BR 54.83871 b  
## BLK 54.45543 b  
## BRN 52.06053 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5387749   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.33140 0.7149497 18 54.94324 57.35064  
## AftLow 53.44444 3.3186146 18 47.20000 58.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.504976   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.33140 a  
## AftLow 53.44444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5387749 24 54.88792 1.337294 2.160922  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 55.34408 0.5855210 3 54.94324 56.01602 55.00811 55.07298  
## BL/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## BLK:AftHigh 57.01086 0.2506781 3 56.74596 57.24436 56.89411 57.04225  
## BLK:AftLow 51.90000 1.6093477 3 50.10000 53.20000 51.25000 52.40000  
## BRN:AftHigh 56.32106 0.2530818 3 56.02908 56.47774 56.24272 56.45635  
## BRN:AftLow 47.80000 0.6557439 3 47.20000 48.50000 47.45000 47.70000  
## WHT:AftHigh 55.91785 0.6059654 3 55.24566 56.42220 55.66568 56.08571  
## WHT:AftLow 55.16667 0.8082904 3 54.30000 55.90000 54.80000 55.30000  
## WT/BLK:AftHigh 56.52420 0.6372233 3 55.91148 57.18338 56.19461 56.47774  
## WT/BLK:AftLow 58.03333 0.6429101 3 57.30000 58.50000 57.80000 58.30000  
## WT/BR:AftHigh 56.87034 0.4460861 3 56.46902 57.35064 56.63019 56.79136  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 55.54450  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 57.14331  
## BLK:AftLow 52.80000  
## BRN:AftHigh 56.46704  
## BRN:AftLow 48.10000  
## WHT:AftHigh 56.25395  
## WHT:AftLow 55.60000  
## WT/BLK:AftHigh 56.83056  
## WT/BLK:AftLow 58.40000  
## WT/BR:AftHigh 57.07100  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftLow 58.03333 a  
## BLK:AftHigh 57.01086 ab  
## WT/BR:AftHigh 56.87034 ab  
## WT/BLK:AftHigh 56.52420 ab  
## BRN:AftHigh 56.32106 abc  
## WHT:AftHigh 55.91785 abc  
## BL/BR:AftHigh 55.34408 bcd  
## WHT:AftLow 55.16667 bcd  
## BL/BR:AftLow 54.33333 cd  
## WT/BR:AftLow 53.43333 de  
## BLK:AftLow 51.90000 e  
## BRN:AftLow 47.80000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT3 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 77.729 15.546 12.596 4.545e-06 \*\*\*  
## THIregime 1 261.264 261.264 211.695 2.104e-13 \*\*\*  
## Colour:THIregime 5 85.686 17.137 13.886 1.995e-06 \*\*\*  
## Residuals 24 29.620 1.234   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.234153   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.81175 1.6461397 6 53.7 57.56420  
## BLK 54.15828 5.1036936 6 49.2 59.75245  
## BRN 52.77405 5.1369184 6 47.3 57.81062  
## WHT 55.36708 0.6741457 6 54.2 55.90451  
## WT/BLK 57.52413 3.4958389 6 53.1 60.51124  
## WT/BR 54.62835 2.7373652 6 51.3 57.30099  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.983141   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.52413 a  
## BL/BR 55.81175 ab  
## WHT 55.36708 b  
## WT/BR 54.62835 bc  
## BLK 54.15828 bc  
## BRN 52.77405 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.234153   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.73788 1.474683 18 55.72962 60.51124  
## AftLow 52.35000 3.029900 18 47.30000 58.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7642782   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.73788 a  
## AftLow 52.35000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.234153 24 55.04394 2.01825 3.270543  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.25684 0.40776692 3 56.79426 57.56420 57.10316 57.41206  
## BL/BR:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## BLK:AftHigh 58.78323 0.83987333 3 58.26943 59.75245 58.29863 58.32782  
## BLK:AftLow 49.53333 0.49328829 3 49.20000 50.10000 49.25000 49.30000  
## BRN:AftHigh 57.41477 0.34312318 3 57.20239 57.81062 57.21684 57.23129  
## BRN:AftLow 48.13333 1.11504858 3 47.30000 49.40000 47.50000 47.70000  
## WHT:AftHigh 55.80083 0.09185395 3 55.72962 55.90451 55.74899 55.76836  
## WHT:AftLow 54.93333 0.75055535 3 54.20000 55.70000 54.55000 54.90000  
## WT/BLK:AftHigh 60.14825 0.41728186 3 59.69234 60.51124 59.96676 60.24118  
## WT/BLK:AftLow 54.90000 3.11769145 3 53.10000 58.50000 53.10000 53.10000  
## WT/BR:AftHigh 57.02338 0.24740264 3 56.82620 57.30099 56.88457 56.94294  
## WT/BR:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 57.48813  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 59.04013  
## BLK:AftLow 49.70000  
## BRN:AftHigh 57.52096  
## BRN:AftLow 48.55000  
## WHT:AftHigh 55.83643  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 60.37621  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 57.12196  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.14825 a  
## BLK:AftHigh 58.78323 ab  
## BRN:AftHigh 57.41477 abc  
## BL/BR:AftHigh 57.25684 abc  
## WT/BR:AftHigh 57.02338 abc  
## WHT:AftHigh 55.80083 bc  
## WHT:AftLow 54.93333 cd  
## WT/BLK:AftLow 54.90000 cd  
## BL/BR:AftLow 54.36667 cd  
## WT/BR:AftLow 52.23333 de  
## BLK:AftLow 49.53333 ef  
## BRN:AftLow 48.13333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT4 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 63.581 12.716 4.8488 0.003319 \*\*   
## THIregime 1 306.847 306.847 117.0030 1.038e-10 \*\*\*  
## Colour:THIregime 5 46.765 9.353 3.5664 0.014923 \*   
## Residuals 24 62.941 2.623   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.622555   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.49272 4.902109 6 50.4 60.84809  
## BLK 56.44821 2.624810 6 53.2 59.93168  
## BRN 54.95274 3.352125 6 50.1 58.86125  
## WHT 52.39048 5.290180 6 46.1 57.97490  
## WT/BLK 55.69729 3.046314 6 50.1 58.62952  
## WT/BR 56.06893 1.971687 6 53.6 58.39866  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.890889   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.44821 a  
## WT/BR 56.06893 a  
## WT/BLK 55.69729 a  
## BL/BR 55.49272 a  
## BRN 54.95274 ab  
## WHT 52.39048 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.622555   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.09457 1.452037 18 54.82252 60.84809  
## AftLow 52.25556 2.843408 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.114113   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.09457 a  
## AftLow 52.25556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.622555 24 55.17506 2.935077 4.767577  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.78544 1.6954010 3 57.83022 60.84809 59.25411 60.67800  
## BL/BR:AftLow 51.20000 1.3856406 3 50.40000 52.80000 50.40000 50.40000  
## BLK:AftHigh 58.69642 1.0727092 3 57.99937 59.93168 58.07879 58.15822  
## BLK:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 57.43882 2.2686610 3 54.82252 58.86125 56.72760 58.63268  
## BRN:AftLow 52.46667 2.0984121 3 50.10000 54.10000 51.65000 53.20000  
## WHT:AftHigh 57.08097 0.7766080 3 56.57247 57.97490 56.63400 56.69553  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.76125 0.7529588 3 57.28792 58.62952 57.32712 57.36633  
## WT/BLK:AftLow 53.63333 3.1390020 3 50.10000 56.10000 52.40000 54.70000  
## WT/BR:AftHigh 57.80452 0.5183456 3 57.44473 58.39866 57.50745 57.57018  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 60.76305  
## BL/BR:AftLow 51.60000  
## BLK:AftHigh 59.04495  
## BLK:AftLow 54.70000  
## BRN:AftHigh 58.74697  
## BRN:AftLow 53.65000  
## WHT:AftHigh 57.33521  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.99792  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.98442  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.78544 a  
## BLK:AftHigh 58.69642 ab  
## WT/BR:AftHigh 57.80452 abc  
## WT/BLK:AftHigh 57.76125 abc  
## BRN:AftHigh 57.43882 abc  
## WHT:AftHigh 57.08097 abcd  
## WT/BR:AftLow 54.33333 bcde  
## BLK:AftLow 54.20000 bcde  
## WT/BLK:AftLow 53.63333 cde  
## BRN:AftLow 52.46667 def  
## BL/BR:AftLow 51.20000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT5 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 92.452 18.490 8.3621 0.0001085 \*\*\*  
## THIregime 1 279.248 279.248 126.2879 4.802e-11 \*\*\*  
## Colour:THIregime 5 148.535 29.707 13.4348 2.644e-06 \*\*\*  
## Residuals 24 53.069 2.211   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.211199   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.06500 2.177779 6 50.1 56.20000  
## BLK 53.39954 4.989673 6 48.1 58.39604  
## BRN 53.36126 5.490171 6 47.4 58.60338  
## WHT 52.70043 5.617611 6 46.1 58.49386  
## WT/BLK 57.49911 1.928920 6 53.6 58.70000  
## WT/BR 55.25203 1.053774 6 53.7 56.43418  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.654502   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.49911 a  
## WT/BR 55.25203 ab  
## BL/BR 54.06500 b  
## BLK 53.39954 b  
## BRN 53.36126 b  
## WHT 52.70043 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.211199   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.16468 1.393385 18 54.17495 58.60338  
## AftLow 51.59444 3.918654 18 46.10000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.023013   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.16468 a  
## AftLow 51.59444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.211199 24 54.37956 2.734502 4.377734  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 54.79666 0.9205833 3 54.17495 55.85423 54.26788 54.36080  
## BL/BR:AftLow 53.33333 3.0664855 3 50.10000 56.20000 51.90000 53.70000  
## BLK:AftHigh 57.89908 0.4631175 3 57.47958 58.39604 57.65060 57.82162  
## BLK:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 58.28918 0.3718987 3 57.87857 58.60338 58.13208 58.38559  
## BRN:AftLow 48.43333 1.5373137 3 47.40000 50.20000 47.55000 47.70000  
## WHT:AftHigh 57.70086 0.7217604 3 57.08232 58.49386 57.30436 57.52640  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.16489 0.2621232 3 57.86289 58.33332 58.08068 58.29847  
## WT/BLK:AftLow 56.83333 2.8112868 3 53.60000 58.70000 55.90000 58.20000  
## WT/BR:AftHigh 56.13740 0.2848613 3 55.86618 56.43418 55.98901 56.11185  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 55.10751  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 58.10883  
## BLK:AftLow 49.30000  
## BRN:AftHigh 58.49449  
## BRN:AftLow 48.95000  
## WHT:AftHigh 58.01013  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.31590  
## WT/BLK:AftLow 58.45000  
## WT/BR:AftHigh 56.27301  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.28918 a  
## WT/BLK:AftHigh 58.16489 a  
## BLK:AftHigh 57.89908 a  
## WHT:AftHigh 57.70086 ab  
## WT/BLK:AftLow 56.83333 ab  
## WT/BR:AftHigh 56.13740 ab  
## BL/BR:AftHigh 54.79666 ab  
## WT/BR:AftLow 54.36667 ab  
## BL/BR:AftLow 53.33333 b  
## BLK:AftLow 48.90000 c  
## BRN:AftLow 48.43333 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT6 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 51.912 10.382 6.3753 0.0006710 \*\*\*  
## THIregime 1 93.993 93.993 57.7166 7.779e-08 \*\*\*  
## Colour:THIregime 5 68.551 13.710 8.4187 0.0001034 \*\*\*  
## Residuals 24 39.085 1.629   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.628531   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.16846 1.3744618 6 54.12932 57.49700  
## BLK 54.84131 2.7120341 6 49.90000 57.31818  
## BRN 53.96501 0.3187902 6 53.40000 54.30000  
## WHT 51.92449 4.7971647 6 46.10000 57.06764  
## WT/BLK 54.55439 2.7387221 6 50.50000 57.75835  
## WT/BR 55.64135 0.6829440 6 54.70000 56.40804  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.27807   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 55.64135 a  
## BL/BR 55.16846 a  
## BLK 54.84131 a  
## WT/BLK 54.55439 a  
## BRN 53.96501 ab  
## WHT 51.92449 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.628531   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 55.96500 1.220578 18 53.89473 57.75835  
## AftLow 52.73333 2.809857 18 46.10000 55.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8779404   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 55.96500 a  
## AftLow 52.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.628531 24 54.34917 2.348038 3.756932  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 55.93692 1.6974304 3 54.12932 57.49700 55.15688 56.18444  
## BL/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BLK:AftHigh 56.64928 0.9839691 3 55.51945 57.31818 56.31483 57.11020  
## BLK:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 54.06336 0.1473691 3 53.89473 54.16740 54.01134 54.12796  
## BRN:AftLow 53.86667 0.4509250 3 53.40000 54.30000 53.65000 53.90000  
## WHT:AftHigh 56.14898 0.7956000 3 55.68388 57.06764 55.68966 55.69543  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.80878 0.8453908 3 56.13798 57.75835 56.33399 56.53001  
## WT/BLK:AftLow 52.30000 1.6703293 3 50.50000 53.80000 51.55000 52.60000  
## WT/BR:AftHigh 56.18270 0.3561627 3 55.77209 56.40804 56.07003 56.36797  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 56.84072  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 57.21419  
## BLK:AftLow 54.60000  
## BRN:AftHigh 54.14768  
## BRN:AftLow 54.10000  
## WHT:AftHigh 56.38153  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.14418  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 56.38800  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 56.80878 a  
## BLK:AftHigh 56.64928 ab  
## WT/BR:AftHigh 56.18270 ab  
## WHT:AftHigh 56.14898 ab  
## BL/BR:AftHigh 55.93692 abc  
## WT/BR:AftLow 55.10000 abc  
## BL/BR:AftLow 54.40000 abc  
## BRN:AftHigh 54.06336 abc  
## BRN:AftLow 53.86667 abc  
## BLK:AftLow 53.03333 bc  
## WT/BLK:AftLow 52.30000 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT7 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 94.774 18.955 15.173 9.243e-07 \*\*\*  
## THIregime 1 216.784 216.784 173.529 1.771e-12 \*\*\*  
## Colour:THIregime 5 108.473 21.695 17.366 2.760e-07 \*\*\*  
## Residuals 24 29.982 1.249   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.249269   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.46431 0.5958456 6 55.7 57.20000  
## BLK 53.03096 3.5443282 6 49.1 57.08668  
## BRN 52.59934 4.1280080 6 47.3 58.40127  
## WHT 52.25468 5.1424962 6 46.1 57.52488  
## WT/BLK 55.04071 3.8033415 6 51.3 59.27418  
## WT/BR 55.70027 0.4237795 6 55.3 56.22510  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.995249   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.46431 a  
## WT/BR 55.70027 a  
## WT/BLK 55.04071 a  
## BLK 53.03096 b  
## BRN 52.59934 b  
## WHT 52.25468 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.249269   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.63564 1.332711 18 53.85117 59.27418  
## AftLow 51.72778 3.455908 18 46.10000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7689445   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.63564 a  
## AftLow 51.72778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.249269 24 54.18171 2.062886 3.290511  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.69528 0.1555553 3 56.55614 56.86323 56.61131 56.66649  
## BL/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## BLK:AftHigh 56.19526 0.9612610 3 55.17679 57.08668 55.74955 56.32230  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 55.99867 2.2857526 3 53.85117 58.40127 54.79737 55.74358  
## BRN:AftLow 49.20000 1.6462078 3 47.30000 50.20000 48.70000 50.10000  
## WHT:AftHigh 56.80936 0.7196181 3 56.08571 57.52488 56.45160 56.81749  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.48142 0.7603144 3 57.75835 59.27418 58.08504 58.41173  
## WT/BLK:AftLow 51.60000 0.2645751 3 51.30000 51.80000 51.50000 51.70000  
## WT/BR:AftHigh 55.63386 0.5122618 3 55.32257 56.22510 55.33825 55.35393  
## WT/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 56.76486  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 56.70449  
## BLK:AftLow 50.25000  
## BRN:AftHigh 57.07243  
## BRN:AftLow 50.15000  
## WHT:AftHigh 57.17118  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.84295  
## WT/BLK:AftLow 51.75000  
## WT/BR:AftHigh 55.78951  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 58.48142 a  
## WHT:AftHigh 56.80936 a  
## BL/BR:AftHigh 56.69528 a  
## BL/BR:AftLow 56.23333 a  
## BLK:AftHigh 56.19526 a  
## BRN:AftHigh 55.99867 a  
## WT/BR:AftLow 55.76667 a  
## WT/BR:AftHigh 55.63386 a  
## WT/BLK:AftLow 51.60000 b  
## BLK:AftLow 49.86667 bc  
## BRN:AftLow 49.20000 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT8 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 178.609 35.722 46.014 1.597e-11 \*\*\*  
## THIregime 1 212.344 212.344 273.522 1.272e-14 \*\*\*  
## Colour:THIregime 5 93.574 18.715 24.107 1.242e-08 \*\*\*  
## Residuals 24 18.632 0.776   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7763332   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.87771 0.407194 6 57.3 58.57227  
## BLK 53.00725 4.552484 6 48.3 57.77211  
## BRN 51.99064 4.109304 6 48.1 56.54664  
## WHT 51.85941 4.708003 6 46.1 56.46653  
## WT/BLK 55.92106 1.169987 6 54.6 57.75835  
## WT/BR 55.48262 1.896992 6 52.7 57.20952  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.572872   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.87771 a  
## WT/BLK 55.92106 b  
## WT/BR 55.48262 b  
## BLK 53.00725 c  
## BRN 51.99064 c  
## WHT 51.85941 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7763332   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.78512 0.9767656 18 55.20148 58.57227  
## AftLow 51.92778 4.0190437 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6061654   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.78512 a  
## AftLow 51.92778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7763332 24 54.35645 1.620963 2.593938  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.12210 0.3898934 3 57.89193 58.57227 57.89701 57.90209  
## BL/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BLK:AftHigh 57.11450 0.9665915 3 56.00469 57.77211 56.78569 57.56669  
## BLK:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 55.71462 0.7270656 3 55.20148 56.54664 55.29861 55.39575  
## BRN:AftLow 48.26667 0.2886751 3 48.10000 48.60000 48.10000 48.10000  
## WHT:AftHigh 56.01882 0.3888478 3 55.76556 56.46653 55.79496 55.82436  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.80878 0.8453908 3 56.13798 57.75835 56.33399 56.53001  
## WT/BLK:AftLow 55.03333 0.5859465 3 54.60000 55.70000 54.70000 54.80000  
## WT/BR:AftHigh 56.93190 0.3896612 3 56.48645 57.20952 56.79310 57.09975  
## WT/BR:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 58.23718  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 57.66940  
## BLK:AftLow 49.20000  
## BRN:AftHigh 55.97119  
## BRN:AftLow 48.35000  
## WHT:AftHigh 56.14545  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.14418  
## WT/BLK:AftLow 55.25000  
## WT/BR:AftHigh 57.15463  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.12210 a  
## BL/BR:AftLow 57.63333 a  
## BLK:AftHigh 57.11450 ab  
## WT/BR:AftHigh 56.93190 ab  
## WT/BLK:AftHigh 56.80878 ab  
## WHT:AftHigh 56.01882 abc  
## BRN:AftHigh 55.71462 abc  
## WT/BLK:AftLow 55.03333 bc  
## WT/BR:AftLow 54.03333 c  
## BLK:AftLow 48.90000 d  
## BRN:AftLow 48.26667 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT9 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 131.83 26.37 13.3692 2.757e-06 \*\*\*  
## THIregime 1 348.97 348.97 176.9498 1.439e-12 \*\*\*  
## Colour:THIregime 5 47.21 9.44 4.7872 0.003555 \*\*   
## Residuals 24 47.33 1.97   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.972159   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.33281 2.647281 6 54.6 60.76678  
## BLK 52.81220 4.650884 6 48.2 57.93442  
## BRN 53.49049 5.059316 6 47.3 59.10311  
## WHT 52.15752 5.022096 6 46.1 56.91876  
## WT/BLK 56.27404 2.497914 6 53.7 59.27418  
## WT/BR 55.74709 1.733658 6 53.2 57.45518  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.506918   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.33281 a  
## WT/BLK 56.27404 a  
## WT/BR 55.74709 ab  
## BRN 53.49049 bc  
## BLK 52.81220 c  
## WHT 52.15752 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.972159   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.74916 1.312760 18 55.64926 60.76678  
## AftLow 51.52222 3.404764 18 46.10000 55.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9661356   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.74916 a  
## AftLow 51.52222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.972159 24 54.63569 2.570364 4.134342  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.66562 0.9561658 3 59.04550 60.76678 59.11504 59.18457  
## BL/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BLK:AftHigh 56.99108 1.1935580 3 55.64926 57.93442 56.51941 57.38956  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 57.51432 1.4052955 3 56.43418 59.10311 56.71992 57.00566  
## BRN:AftLow 49.46667 3.6665151 3 47.30000 53.70000 47.35000 47.40000  
## WHT:AftHigh 56.61504 0.2919017 3 56.33661 56.91876 56.46317 56.58974  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.48142 0.7603144 3 57.75835 59.27418 58.08504 58.41173  
## WT/BLK:AftLow 54.06667 0.6350853 3 53.70000 54.80000 53.70000 53.70000  
## WT/BR:AftHigh 57.22752 0.2749650 3 56.92203 57.45518 57.11369 57.30534  
## WT/BR:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 59.97568  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 57.66199  
## BLK:AftLow 48.85000  
## BRN:AftHigh 58.05439  
## BRN:AftLow 50.55000  
## WHT:AftHigh 56.75425  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.84295  
## WT/BLK:AftLow 54.25000  
## WT/BR:AftHigh 57.38026  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.66562 a  
## WT/BLK:AftHigh 58.48142 ab  
## BRN:AftHigh 57.51432 abc  
## WT/BR:AftHigh 57.22752 abc  
## BLK:AftHigh 56.99108 abc  
## WHT:AftHigh 56.61504 abc  
## BL/BR:AftLow 55.00000 bc  
## WT/BR:AftLow 54.26667 c  
## WT/BLK:AftLow 54.06667 c  
## BRN:AftLow 49.46667 d  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT10 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 90.787 18.157 11.663 8.556e-06 \*\*\*  
## THIregime 1 147.115 147.115 94.493 8.521e-10 \*\*\*  
## Colour:THIregime 5 97.670 19.534 12.547 4.696e-06 \*\*\*  
## Residuals 24 37.365 1.557   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.556877   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.14914 0.6577834 6 56.1 57.90000  
## BLK 53.52132 3.0233612 6 50.1 57.38723  
## BRN 54.09785 1.1770714 6 52.4 55.82911  
## WHT 52.41187 5.3612593 6 46.1 58.26363  
## WT/BLK 56.15091 3.8884073 6 50.4 60.00596  
## WT/BR 54.43132 1.2681673 6 53.2 56.68682  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.22739   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.14914 a  
## WT/BLK 56.15091 ab  
## WT/BR 54.43132 bc  
## BRN 54.09785 bc  
## BLK 53.52132 c  
## WHT 52.41187 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.556877   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.64858 1.718278 18 53.87469 60.00596  
## AftLow 52.60556 3.214210 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8584088   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.64858 a  
## AftLow 52.60556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.556877 24 54.62707 2.284122 3.673352  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.06494 0.2951230 3 56.88469 57.40553 56.89465 56.90461  
## BL/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BLK:AftHigh 56.17598 1.1255588 3 55.16227 57.38723 55.57035 55.97842  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 54.82904 0.9780133 3 53.87469 55.82911 54.32900 54.78332  
## BRN:AftLow 53.36667 0.9504385 3 52.40000 54.30000 52.90000 53.40000  
## WHT:AftHigh 57.12375 1.3756830 3 55.59568 58.26363 56.55381 57.51193  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.33516 0.5810754 3 58.98670 60.00596 58.99976 59.01283  
## WT/BLK:AftLow 52.96667 2.6539279 3 50.40000 55.70000 51.60000 52.80000  
## WT/BR:AftHigh 55.36264 1.1612688 3 54.51761 56.68682 54.70056 54.88350  
## WT/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 57.15507  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 56.68283  
## BLK:AftLow 51.25000  
## BRN:AftHigh 55.30621  
## BRN:AftLow 53.85000  
## WHT:AftHigh 57.88778  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.50940  
## WT/BLK:AftLow 54.25000  
## WT/BR:AftHigh 55.78516  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.33516 a  
## BL/BR:AftLow 57.23333 ab  
## WHT:AftHigh 57.12375 abc  
## BL/BR:AftHigh 57.06494 abc  
## BLK:AftHigh 56.17598 abcd  
## WT/BR:AftHigh 55.36264 bcd  
## BRN:AftHigh 54.82904 bcd  
## WT/BR:AftLow 53.50000 cde  
## BRN:AftLow 53.36667 de  
## WT/BLK:AftLow 52.96667 de  
## BLK:AftLow 50.86667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT11 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 54.149 10.830 3.8915 0.010043 \*   
## THIregime 1 227.146 227.146 81.6212 3.436e-09 \*\*\*  
## Colour:THIregime 5 59.893 11.979 4.3043 0.006164 \*\*   
## Residuals 24 66.790 2.783   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.782928   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.36876 2.575713 6 53.7 59.08833  
## BLK 54.09845 3.923526 6 49.1 57.71158  
## BRN 53.70689 1.701374 6 50.3 54.84168  
## WHT 52.44900 5.333152 6 46.1 57.53434  
## WT/BLK 55.07059 3.763361 6 50.1 58.17651  
## WT/BR 54.97768 1.799277 6 53.6 57.88380  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.977969   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.36876 a  
## WT/BLK 55.07059 ab  
## WT/BR 54.97768 ab  
## BLK 54.09845 ab  
## BRN 53.70689 ab  
## WHT 52.44900 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.782928   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.95712 1.527638 18 53.92522 59.08833  
## AftLow 51.93333 2.881585 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.147673   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.95712 a  
## AftLow 51.93333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.782928 24 54.44523 3.064017 4.911187  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.67086 0.68077214 3 57.88529 59.08833 58.46213 59.03896  
## BL/BR:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## BLK:AftHigh 57.23022 0.44462352 3 56.83491 57.71158 56.98955 57.14418  
## BLK:AftLow 50.96667 2.97713509 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 54.48044 0.48805656 3 53.92522 54.84168 54.29982 54.67442  
## BRN:AftLow 52.93333 2.28108161 3 50.30000 54.30000 52.25000 54.20000  
## WHT:AftHigh 57.19800 0.29536587 3 56.98083 57.53434 57.02984 57.07884  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.87451 0.42189418 3 57.39246 58.17651 57.72350 58.05455  
## WT/BLK:AftLow 52.26667 3.41223290 3 50.10000 56.20000 50.30000 50.50000  
## WT/BR:AftHigh 56.28869 1.71286233 3 54.47841 57.88380 55.49114 56.50387  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 59.06365  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 57.42788  
## BLK:AftLow 51.90000  
## BRN:AftHigh 54.75805  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.30659  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.11553  
## WT/BLK:AftLow 53.35000  
## WT/BR:AftHigh 57.19383  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.67086 a  
## WT/BLK:AftHigh 57.87451 ab  
## BLK:AftHigh 57.23022 abc  
## WHT:AftHigh 57.19800 abc  
## WT/BR:AftHigh 56.28869 abcd  
## BRN:AftHigh 54.48044 abcde  
## BL/BR:AftLow 54.06667 abcde  
## WT/BR:AftLow 53.66667 bcde  
## BRN:AftLow 52.93333 cde  
## WT/BLK:AftLow 52.26667 def  
## BLK:AftLow 50.96667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT12 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 108.328 21.666 29.566 1.625e-09 \*\*\*  
## THIregime 1 81.953 81.953 111.837 1.631e-10 \*\*\*  
## Colour:THIregime 5 76.311 15.262 20.828 5.085e-08 \*\*\*  
## Residuals 24 17.587 0.733   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7327894   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.03198 0.4919168 6 55.40000 56.67561  
## BLK 54.92739 1.5671668 6 53.20000 57.09046  
## BRN 52.06914 2.6716912 6 49.40000 54.87305  
## WHT 51.84256 4.6896317 6 46.10000 56.41566  
## WT/BLK 56.02506 1.1499105 6 54.67442 57.30000  
## WT/BR 55.12330 1.4209914 6 53.70000 56.59796  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.528125   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.03198 a  
## WT/BLK 56.02506 a  
## WT/BR 55.12330 a  
## BLK 54.92739 a  
## BRN 52.06914 b  
## WHT 51.84256 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7327894   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 55.84537 0.8801745 18 53.82939 57.09046  
## AftLow 52.82778 3.3348085 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5889205   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 55.84537 a  
## AftLow 52.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7327894 24 54.33657 1.575424 2.520142  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.39729 0.2475150 3 56.20187 56.67561 56.25813 56.31439  
## BL/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BLK:AftHigh 56.15478 1.1447988 3 54.87827 57.09046 55.68694 56.49562  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 54.47162 0.5619591 3 53.82939 54.87305 54.27091 54.71243  
## BRN:AftLow 49.66667 0.4618802 3 49.40000 50.20000 49.40000 49.40000  
## WHT:AftHigh 55.98512 0.3730772 3 55.75716 56.41566 55.76985 55.78254  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.65013 0.8449868 3 54.67442 56.13798 55.40620 56.13798  
## WT/BLK:AftLow 56.40000 1.4730920 3 54.70000 57.30000 55.95000 57.20000  
## WT/BR:AftHigh 56.41327 0.2065382 3 56.19025 56.59796 56.32093 56.45160  
## WT/BR:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 56.49500  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.79304  
## BLK:AftLow 53.95000  
## BRN:AftHigh 54.79274  
## BRN:AftLow 49.80000  
## WHT:AftHigh 56.09910  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.13798  
## WT/BLK:AftLow 57.25000  
## WT/BR:AftHigh 56.52478  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 56.41327 a  
## WT/BLK:AftLow 56.40000 a  
## BL/BR:AftHigh 56.39729 a  
## BLK:AftHigh 56.15478 ab  
## WHT:AftHigh 55.98512 ab  
## BL/BR:AftLow 55.66667 ab  
## WT/BLK:AftHigh 55.65013 ab  
## BRN:AftHigh 54.47162 ab  
## WT/BR:AftLow 53.83333 b  
## BLK:AftLow 53.70000 b  
## BRN:AftLow 49.66667 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT13 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 92.518 18.504 11.7770 7.904e-06 \*\*\*  
## THIregime 1 158.237 158.237 100.7132 4.586e-10 \*\*\*  
## Colour:THIregime 5 70.894 14.179 9.0244 6.239e-05 \*\*\*  
## Residuals 24 37.708 1.571   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.571167   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.30574 1.5437563 6 54.2 58.34079  
## BLK 54.94708 2.8860794 6 50.2 57.38696  
## BRN 55.52858 1.9848185 6 53.2 57.89140  
## WHT 52.29664 5.1728225 6 46.1 57.33646  
## WT/BLK 56.79093 0.6822975 6 55.8 57.70608  
## WT/BR 55.44360 3.3900128 6 51.4 58.77762  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.237589   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.30574 a  
## WT/BLK 56.79093 ab  
## BRN 55.52858 ab  
## WT/BR 55.44360 ab  
## BLK 54.94708 b  
## WHT 52.29664 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.571167   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.48197 0.7460855 18 55.73289 58.77762  
## AftLow 53.28889 3.3576758 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8623395   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.48197 a  
## AftLow 53.28889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.571167 24 55.38543 2.263162 3.690172  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.11148 0.2007475 3 57.96743 58.34079 57.99683 58.02623  
## BL/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## BLK:AftHigh 57.26082 0.1416423 3 57.10759 57.38696 57.19775 57.28792  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 57.15717 1.2336591 3 55.73289 57.89140 56.79005 57.84721  
## BRN:AftLow 53.90000 0.6082763 3 53.20000 54.30000 53.70000 54.20000  
## WHT:AftHigh 56.89327 0.3847817 3 56.64435 57.33646 56.67168 56.69901  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.14853 0.5261731 3 56.66068 57.70608 56.86976 57.07884  
## WT/BLK:AftLow 56.43333 0.7094599 3 55.80000 57.20000 56.05000 56.30000  
## WT/BR:AftHigh 58.32054 0.3959980 3 58.08068 58.77762 58.09201 58.10333  
## WT/BR:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 58.18351  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 57.33744  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.86930  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.01773  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.39246  
## WT/BLK:AftLow 56.75000  
## WT/BR:AftHigh 58.44047  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.32054 a  
## BL/BR:AftHigh 58.11148 a  
## BLK:AftHigh 57.26082 ab  
## BRN:AftHigh 57.15717 ab  
## WT/BLK:AftHigh 57.14853 ab  
## WHT:AftHigh 56.89327 ab  
## BL/BR:AftLow 56.50000 ab  
## WT/BLK:AftLow 56.43333 ab  
## BRN:AftLow 53.90000 bc  
## BLK:AftLow 52.63333 c  
## WT/BR:AftLow 52.56667 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT14 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 122.879 24.576 31.292 9.122e-10 \*\*\*  
## THIregime 1 269.468 269.468 343.113 1.013e-15 \*\*\*  
## Colour:THIregime 5 165.648 33.130 42.184 4.041e-11 \*\*\*  
## Residuals 24 18.849 0.785   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.785362   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.99072 1.903394 6 54.70000 59.25676  
## BLK 53.32277 5.226740 6 48.10000 58.18476  
## BRN 53.90877 4.934010 6 48.10000 58.91304  
## WHT 52.65883 5.574125 6 46.10000 58.21833  
## WT/BLK 56.41193 1.186846 6 55.51074 58.40000  
## WT/BR 57.25580 1.739915 6 55.20000 59.16964  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.581991   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 57.25580 a  
## BL/BR 56.99072 a  
## WT/BLK 56.41193 a  
## BRN 53.90877 b  
## BLK 53.32277 b  
## WHT 52.65883 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.785362   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.82739 1.228853 18 55.51074 59.25676  
## AftLow 52.35556 4.070731 18 46.10000 58.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6096801   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.82739 a  
## AftLow 52.35556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.785362 24 55.09147 1.608609 2.608978  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.54810 1.16943958 3 57.19831 59.25676 58.19378 59.18924  
## BL/BR:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 58.07888 0.14832870 3 57.90935 58.18476 58.02594 58.14253  
## BLK:AftLow 48.56667 0.64291005 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 58.35088 0.51081744 3 57.91516 58.91304 58.06979 58.22442  
## BRN:AftLow 49.46667 1.18462371 3 48.10000 50.20000 49.10000 50.10000  
## WHT:AftHigh 57.61766 0.73975940 3 56.79136 58.21833 57.31732 57.84329  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.55720 0.08047493 3 55.51074 55.65013 55.51074 55.51074  
## WT/BLK:AftLow 57.26667 1.15036226 3 56.10000 58.40000 56.70000 57.30000  
## WT/BR:AftHigh 58.81159 0.31107238 3 58.60774 59.16964 58.63257 58.65739  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 59.22300  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 58.16365  
## BLK:AftLow 48.80000  
## BRN:AftHigh 58.56873  
## BRN:AftLow 50.15000  
## WHT:AftHigh 58.03081  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 55.58043  
## WT/BLK:AftLow 57.85000  
## WT/BR:AftHigh 58.91352  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.81159 a  
## BL/BR:AftHigh 58.54810 a  
## BRN:AftHigh 58.35088 a  
## BLK:AftHigh 58.07888 ab  
## WHT:AftHigh 57.61766 abc  
## WT/BLK:AftLow 57.26667 abc  
## WT/BR:AftLow 55.70000 bc  
## WT/BLK:AftHigh 55.55720 bc  
## BL/BR:AftLow 55.43333 c  
## BRN:AftLow 49.46667 d  
## BLK:AftLow 48.56667 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT15 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 82.380 16.476 9.4214 4.530e-05 \*\*\*  
## THIregime 1 275.435 275.435 157.5013 4.916e-12 \*\*\*  
## Colour:THIregime 5 93.300 18.660 10.6703 1.741e-05 \*\*\*  
## Residuals 24 41.971 1.749   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.748778   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.31617 1.678524 6 54.6 58.06450  
## BLK 53.45716 4.559616 6 49.2 58.00870  
## BRN 53.70882 3.830214 6 48.4 57.75835  
## WHT 53.16584 6.105342 6 46.1 59.02677  
## WT/BLK 56.95897 1.454090 6 54.8 58.64694  
## WT/BR 55.88927 2.115029 6 52.8 57.89425  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.360677   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.95897 a  
## BL/BR 56.31617 a  
## WT/BR 55.88927 ab  
## BRN 53.70882 bc  
## BLK 53.45716 c  
## WHT 53.16584 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.748778   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.68208 0.8906425 18 54.78767 59.02677  
## AftLow 52.15000 3.4655023 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9097759   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.68208 a  
## AftLow 52.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.748778 24 54.91604 2.408065 3.893165  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.83233 0.3425424 3 57.43892 58.06450 57.71624 57.99357  
## BL/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 57.61433 0.3452931 3 57.36633 58.00870 57.41714 57.46796  
## BLK:AftLow 49.30000 0.1000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 56.61765 1.6007999 3 54.78767 57.75835 56.04730 57.30693  
## BRN:AftLow 50.80000 2.9546573 3 48.40000 54.10000 49.15000 49.90000  
## WHT:AftHigh 58.63167 0.4493141 3 58.14291 59.02677 58.43413 58.72535  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.85127 0.6956981 3 57.35761 58.64694 57.45344 57.54927  
## WT/BLK:AftLow 56.06667 1.5534907 3 54.80000 57.80000 55.20000 55.60000  
## WT/BR:AftHigh 57.54520 0.3060578 3 57.32277 57.89425 57.37068 57.41860  
## WT/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 58.02903  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 57.73833  
## BLK:AftLow 49.35000  
## BRN:AftHigh 57.53264  
## BRN:AftLow 52.00000  
## WHT:AftHigh 58.87606  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.09811  
## WT/BLK:AftLow 56.70000  
## WT/BR:AftHigh 57.65642  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.63167 a  
## WT/BLK:AftHigh 57.85127 ab  
## BL/BR:AftHigh 57.83233 ab  
## BLK:AftHigh 57.61433 ab  
## WT/BR:AftHigh 57.54520 ab  
## BRN:AftHigh 56.61765 ab  
## WT/BLK:AftLow 56.06667 ab  
## BL/BR:AftLow 54.80000 ab  
## WT/BR:AftLow 54.23333 bc  
## BRN:AftLow 50.80000 cd  
## BLK:AftLow 49.30000 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT16 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 98.756 19.751 15.491 7.698e-07 \*\*\*  
## THIregime 1 182.233 182.233 142.923 1.351e-11 \*\*\*  
## Colour:THIregime 5 128.798 25.760 20.203 6.784e-08 \*\*\*  
## Residuals 24 30.601 1.275   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.27504   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.86687 1.473621 6 53.9000 57.90000  
## BLK 53.71932 3.895363 6 50.1000 57.54666  
## BRN 53.24988 3.591916 6 49.6000 57.48750  
## WHT 52.43082 5.313182 6 46.1000 57.43353  
## WT/BLK 56.03114 1.155494 6 54.8835 57.90000  
## WT/BR 56.03466 2.917873 6 51.6000 58.94314  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.015724   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.86687 a  
## WT/BR 56.03466 a  
## WT/BLK 56.03114 a  
## BLK 53.71932 b  
## BRN 53.24988 b  
## WHT 52.43082 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.27504   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.97201 1.130307 18 54.8835 58.94314  
## AftLow 52.47222 3.729344 18 46.1000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7768352   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.97201 a  
## AftLow 52.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.27504 24 54.72212 2.063474 3.324278  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.40041 0.1075808 3 57.27630 57.46713 57.36705 57.45780  
## BL/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 57.27197 0.2393852 3 57.10788 57.54666 57.13463 57.16137  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 56.46644 1.0357199 3 55.41665 57.48750 55.95591 56.49516  
## BRN:AftLow 50.03333 0.3785939 3 49.60000 50.30000 49.90000 50.20000  
## WHT:AftHigh 57.16164 0.2697152 3 56.89415 57.43353 57.02570 57.15725  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.16227 0.4828496 3 54.88350 55.71982 54.88350 54.88350  
## WT/BLK:AftLow 56.90000 0.9165151 3 56.10000 57.90000 56.40000 56.70000  
## WT/BR:AftHigh 58.36933 0.8502896 3 57.39246 58.94314 58.08242 58.77239  
## WT/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 57.46246  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 57.35401  
## BLK:AftLow 50.20000  
## BRN:AftHigh 56.99133  
## BRN:AftLow 50.25000  
## WHT:AftHigh 57.29539  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 55.30166  
## WT/BLK:AftLow 57.30000  
## WT/BR:AftHigh 58.85776  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.36933 a  
## BL/BR:AftHigh 57.40041 a  
## BLK:AftHigh 57.27197 a  
## WHT:AftHigh 57.16164 a  
## WT/BLK:AftLow 56.90000 ab  
## BRN:AftHigh 56.46644 ab  
## BL/BR:AftLow 56.33333 ab  
## WT/BLK:AftHigh 55.16227 ab  
## WT/BR:AftLow 53.70000 b  
## BLK:AftLow 50.16667 c  
## BRN:AftLow 50.03333 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT17 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 74.823 14.965 14.350 1.504e-06 \*\*\*  
## THIregime 1 190.331 190.331 182.509 1.036e-12 \*\*\*  
## Colour:THIregime 5 94.435 18.887 18.111 1.879e-07 \*\*\*  
## Residuals 24 25.029 1.043   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.042857   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.81970 2.3530552 6 53.1 58.80956  
## BLK 54.48595 3.3412174 6 49.4 57.56379  
## BRN 52.20494 3.3854869 6 49.2 56.64761  
## WHT 52.82222 5.7343578 6 46.1 58.36468  
## WT/BLK 55.10335 0.8241140 6 53.9 56.10313  
## WT/BR 56.02658 0.4845494 6 55.2 56.62148  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.822979   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.02658 a  
## BL/BR 55.81970 a  
## WT/BLK 55.10335 a  
## BLK 54.48595 ab  
## WHT 52.82222 bc  
## BRN 52.20494 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.042857   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.70980 1.265567 18 54.3703 58.80956  
## AftLow 52.11111 3.134793 18 46.1000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7025537   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.70980 a  
## AftLow 52.11111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.042857 24 54.41045 1.876852 3.006408  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.77273 1.3250787 3 56.27986 58.80956 57.25432 58.22878  
## BL/BR:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 57.30523 0.2257037 3 57.14762 57.56379 57.17595 57.20429  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 55.20987 1.2509571 3 54.37030 56.64761 54.49100 54.61170  
## BRN:AftLow 49.20000 0.0000000 3 49.20000 49.20000 49.20000 49.20000  
## WHT:AftHigh 57.94444 0.3684782 3 57.67668 58.36468 57.73432 57.79195  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.67336 0.5998622 3 54.98804 56.10313 55.45847 55.92890  
## WT/BLK:AftLow 54.53333 0.6027714 3 53.90000 55.10000 54.25000 54.60000  
## WT/BR:AftHigh 56.35316 0.2387648 3 56.16412 56.62148 56.21900 56.27388  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 58.51917  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 57.38404  
## BLK:AftLow 52.80000  
## BRN:AftHigh 55.62965  
## BRN:AftLow 49.20000  
## WHT:AftHigh 58.07832  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.01602  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 56.44768  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 57.94444 a  
## BL/BR:AftHigh 57.77273 a  
## BLK:AftHigh 57.30523 ab  
## WT/BR:AftHigh 56.35316 abc  
## WT/BR:AftLow 55.70000 abc  
## WT/BLK:AftHigh 55.67336 abc  
## BRN:AftHigh 55.20987 abc  
## WT/BLK:AftLow 54.53333 bcd  
## BL/BR:AftLow 53.86667 cd  
## BLK:AftLow 51.66667 de  
## BRN:AftLow 49.20000 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT18 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 96.112 19.222 24.267 1.164e-08 \*\*\*  
## THIregime 1 104.085 104.085 131.397 3.206e-11 \*\*\*  
## Colour:THIregime 5 179.404 35.881 45.296 1.890e-11 \*\*\*  
## Residuals 24 19.011 0.792   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7921419   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.02467 0.8260258 6 55.94052 58.10000  
## BLK 55.76052 1.5294051 6 53.30000 57.03964  
## BRN 52.46865 4.4097911 6 48.20000 57.37504  
## WHT 52.96247 5.8902940 6 46.10000 58.61906  
## WT/BLK 55.12819 1.0715554 6 53.62902 56.20000  
## WT/BR 55.92438 1.4794280 6 53.60000 57.15725  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.588805   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.02467 a  
## WT/BR 55.92438 ab  
## BLK 55.76052 ab  
## WT/BLK 55.12819 b  
## WHT 52.96247 c  
## BRN 52.46865 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7921419   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.57852 1.356400 18 53.62902 58.61906  
## AftLow 53.17778 3.935144 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6123061   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.57852 a  
## AftLow 53.17778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7921419 24 54.87815 1.621818 2.620215  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.38267 0.45384148 3 55.94052 56.84736 56.15032 56.36013  
## BL/BR:AftLow 57.66667 0.51316014 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 57.02104 0.03095871 3 56.98530 57.03964 57.01174 57.03819  
## BLK:AftLow 54.50000 1.03923048 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 56.40398 1.34983201 3 54.86259 57.37504 55.91845 56.97430  
## BRN:AftLow 48.53333 0.57735027 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 58.22493 0.54613085 3 57.60154 58.61906 58.02787 58.45419  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 54.32305 0.88458099 3 53.62902 55.31908 53.82503 54.02105  
## WT/BLK:AftLow 55.93333 0.37859389 3 55.50000 56.20000 55.80000 56.10000  
## WT/BR:AftHigh 57.11543 0.05147998 3 57.05793 57.15725 57.09452 57.13111  
## WT/BR:AftLow 54.73333 1.10151411 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 56.60374  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 57.03891  
## BLK:AftLow 55.10000  
## BRN:AftHigh 57.17467  
## BRN:AftLow 48.70000  
## WHT:AftHigh 58.53663  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 54.67006  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.14418  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.22493 a  
## BL/BR:AftLow 57.66667 a  
## WT/BR:AftHigh 57.11543 ab  
## BLK:AftHigh 57.02104 ab  
## BRN:AftHigh 56.40398 abc  
## BL/BR:AftHigh 56.38267 abc  
## WT/BLK:AftLow 55.93333 abc  
## WT/BR:AftLow 54.73333 bc  
## BLK:AftLow 54.50000 bc  
## WT/BLK:AftHigh 54.32305 c  
## BRN:AftLow 48.53333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT19 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 64.143 12.829 7.1893 0.0003081 \*\*\*  
## THIregime 1 295.825 295.825 165.7839 2.869e-12 \*\*\*  
## Colour:THIregime 5 78.293 15.659 8.7753 7.660e-05 \*\*\*  
## Residuals 24 42.826 1.784   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.784402   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.41823 2.256453 6 54.8 59.72719  
## BLK 54.66940 3.658095 6 50.2 58.10856  
## BRN 55.05763 4.043767 6 51.2 59.66383  
## WHT 53.15090 6.105809 6 46.1 59.54300  
## WT/BLK 56.22263 1.476783 6 54.2 57.70000  
## WT/BR 55.88077 3.016911 6 51.6 59.07381  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.3846   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.41823 a  
## WT/BLK 56.22263 ab  
## WT/BR 55.88077 ab  
## BRN 55.05763 abc  
## BLK 54.66940 bc  
## WHT 53.15090 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.784402   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.26652 1.025050 18 56.41675 59.72719  
## AftLow 52.53333 3.138002 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9189956   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.26652 a  
## AftLow 52.53333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.784402 24 55.39993 2.411222 3.932618  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.36980 0.3997210 3 58.93816 59.72719 59.19111 59.44406  
## BL/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 57.73881 0.3323189 3 57.46506 58.10856 57.55393 57.64281  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 58.71526 0.8217966 3 58.21833 59.66383 58.24098 58.26363  
## BRN:AftLow 51.40000 0.2645751 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 58.60181 0.8397799 3 57.92910 59.54300 58.13121 58.33332  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.94526 0.4643681 3 56.41675 57.28792 56.77393 57.13111  
## WT/BLK:AftLow 55.50000 1.9157244 3 54.20000 57.70000 54.40000 54.60000  
## WT/BR:AftHigh 58.22820 1.3151909 3 56.71295 59.07381 57.80539 58.89784  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 59.58562  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.87568  
## BLK:AftLow 52.30000  
## BRN:AftHigh 58.96373  
## BRN:AftLow 51.50000  
## WHT:AftHigh 58.93816  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.20952  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 58.98582  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.36980 a  
## BRN:AftHigh 58.71526 a  
## WHT:AftHigh 58.60181 a  
## WT/BR:AftHigh 58.22820 a  
## BLK:AftHigh 57.73881 a  
## WT/BLK:AftHigh 56.94526 ab  
## WT/BLK:AftLow 55.50000 abc  
## BL/BR:AftLow 55.46667 abc  
## WT/BR:AftLow 53.53333 bcd  
## BLK:AftLow 51.60000 cde  
## BRN:AftLow 51.40000 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT20 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 73.604 14.721 7.8617 0.0001676 \*\*\*  
## THIregime 1 143.865 143.865 76.8313 6.035e-09 \*\*\*  
## Colour:THIregime 5 84.200 16.840 8.9934 6.399e-05 \*\*\*  
## Residuals 24 44.939 1.872   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.872472   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.67512 1.230213 6 55.2 58.43205  
## BLK 54.53327 2.995769 6 49.2 57.05532  
## BRN 53.42460 2.366945 6 49.1 56.02037  
## WHT 52.96945 5.897899 6 46.1 58.85602  
## WT/BLK 55.91588 1.169022 6 53.8 57.00044  
## WT/BR 56.34270 1.535724 6 54.3 57.83676  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.442738   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.67512 a  
## WT/BR 56.34270 a  
## WT/BLK 55.91588 a  
## BLK 54.53327 ab  
## BRN 53.42460 b  
## WHT 52.96945 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.872472   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.97590 1.261936 18 54.12321 58.85602  
## AftLow 52.97778 3.214591 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9414013   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.97590 a  
## AftLow 52.97778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.872472 24 54.97684 2.489018 4.028498  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.71690 0.6199106 3 57.33272 58.43205 57.35932 57.38593  
## BL/BR:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## BLK:AftHigh 56.76655 0.2530296 3 56.58365 57.05532 56.62217 56.66068  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 54.78252 1.0727690 3 54.12321 56.02037 54.16360 54.20399  
## BRN:AftLow 52.06667 2.7061658 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 58.23890 0.5492512 3 57.80365 58.85602 57.93034 58.05704  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.69843 0.4858528 3 56.13798 57.00044 56.54743 56.95688  
## WT/BLK:AftLow 55.13333 1.1590226 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 57.65207 0.3153720 3 57.28792 57.83676 57.55972 57.83153  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 57.90899  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 56.85800  
## BLK:AftLow 53.85000  
## BRN:AftHigh 55.11218  
## BRN:AftLow 53.55000  
## WHT:AftHigh 58.45653  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.97866  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 57.83414  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.23890 a  
## BL/BR:AftHigh 57.71690 a  
## WT/BR:AftHigh 57.65207 a  
## BLK:AftHigh 56.76655 a  
## WT/BLK:AftHigh 56.69843 a  
## BL/BR:AftLow 55.63333 ab  
## WT/BLK:AftLow 55.13333 ab  
## WT/BR:AftLow 55.03333 ab  
## BRN:AftHigh 54.78252 ab  
## BLK:AftLow 52.30000 b  
## BRN:AftLow 52.06667 b  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT21 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 100.099 20.020 16.719 3.893e-07 \*\*\*  
## THIregime 1 223.292 223.292 186.480 8.231e-13 \*\*\*  
## Colour:THIregime 5 78.139 15.628 13.051 3.377e-06 \*\*\*  
## Residuals 24 28.738 1.197   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.197402   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.24335 1.947074 6 53.7 58.06035  
## BLK 52.89792 4.687666 6 48.3 57.30534  
## BRN 54.71934 2.957517 6 50.2 58.09811  
## WHT 52.43284 5.316845 6 46.1 57.47833  
## WT/BLK 56.50153 1.354440 6 54.9 57.91516  
## WT/BR 56.38131 1.190860 6 54.6 57.47087  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.953391   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.50153 a  
## WT/BR 56.38131 a  
## BL/BR 56.24335 a  
## BRN 54.71934 ab  
## BLK 52.89792 bc  
## WHT 52.43284 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.197402   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.35321 0.7475518 18 54.73105 58.09811  
## AftLow 52.37222 3.4082608 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7528129   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.35321 a  
## AftLow 52.37222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.197402 24 54.86271 1.99454 3.22148  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.88671 0.2142530 3 57.64728 58.06035 57.79989 57.95250  
## BL/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## BLK:AftHigh 57.16250 0.2052835 3 56.92726 57.30534 57.09108 57.25491  
## BLK:AftLow 48.63333 0.5773503 3 48.30000 49.30000 48.30000 48.30000  
## BRN:AftHigh 56.87200 1.8606435 3 54.73105 58.09811 56.25895 57.78686  
## BRN:AftLow 52.56667 2.1221059 3 50.20000 54.30000 51.70000 53.20000  
## WHT:AftHigh 57.16569 0.3356725 3 56.81096 57.47833 57.00936 57.20777  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.63639 0.2630866 3 57.39246 57.91516 57.49700 57.60154  
## WT/BLK:AftLow 55.36667 0.8082904 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 57.39594 0.1164499 3 57.26179 57.47087 57.35848 57.45518  
## WT/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 58.00643  
## BL/BR:AftLow 55.05000  
## BLK:AftHigh 57.28013  
## BLK:AftLow 48.80000  
## BRN:AftHigh 57.94248  
## BRN:AftLow 53.75000  
## WHT:AftHigh 57.34305  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.75835  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 57.46302  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.88671 a  
## WT/BLK:AftHigh 57.63639 ab  
## WT/BR:AftHigh 57.39594 ab  
## WHT:AftHigh 57.16569 ab  
## BLK:AftHigh 57.16250 ab  
## BRN:AftHigh 56.87200 ab  
## WT/BLK:AftLow 55.36667 abc  
## WT/BR:AftLow 55.36667 abc  
## BL/BR:AftLow 54.60000 bc  
## BRN:AftLow 52.56667 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT22 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 85.285 17.057 3.8080 0.011108 \*   
## THIregime 1 110.765 110.765 24.7282 4.454e-05 \*\*\*  
## Colour:THIregime 5 139.299 27.860 6.2197 0.000783 \*\*\*  
## Residuals 24 107.503 4.479   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 4.479305   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.38057 1.041034 6 54.8 57.78739  
## BLK 55.00063 2.510426 6 51.3 57.39246  
## BRN 55.88897 3.548304 6 50.2 59.11737  
## WHT 52.98684 5.907593 6 46.1 58.40052  
## WT/BLK 56.23420 1.947514 6 53.9 58.64694  
## WT/BR 58.06663 3.583942 6 54.8 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.778109   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 58.06663 a  
## BL/BR 56.38057 ab  
## WT/BLK 56.23420 ab  
## BRN 55.88897 ab  
## BLK 55.00063 ab  
## WHT 52.98684 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 4.479305   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.51373 1.305599 18 54.48276 59.11737  
## AftLow 54.00556 4.222555 18 46.10000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.456037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.51373 a  
## AftLow 54.00556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.479305 24 55.75964 3.795643 6.230756  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.06114 0.6401969 3 56.57854 57.78739 56.69802 56.81749  
## BL/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## BLK:AftHigh 57.13459 0.2255094 3 56.97430 57.39246 57.00566 57.03702  
## BLK:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## BRN:AftHigh 58.81127 0.3365170 3 58.45093 59.11737 58.65823 58.86552  
## BRN:AftLow 52.96667 2.3965253 3 50.20000 54.40000 52.25000 54.30000  
## WHT:AftHigh 58.27369 0.1923485 3 58.05237 58.40052 58.21027 58.36817  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.13508 2.2111565 3 54.48276 58.64694 54.87914 55.27553  
## WT/BLK:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## WT/BR:AftHigh 57.66659 1.4792465 3 56.00731 58.84731 57.07623 58.14515  
## WT/BR:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## Q75  
## BL/BR:AftHigh 57.30244  
## BL/BR:AftLow 56.15000  
## BLK:AftHigh 57.21474  
## BLK:AftLow 53.65000  
## BRN:AftHigh 58.99145  
## BRN:AftLow 54.35000  
## WHT:AftHigh 58.38435  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.96123  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 58.49623  
## WT/BR:AftLow 60.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.81127 a  
## WT/BR:AftLow 58.46667 a  
## WHT:AftHigh 58.27369 a  
## WT/BR:AftHigh 57.66659 a  
## BLK:AftHigh 57.13459 a  
## BL/BR:AftHigh 57.06114 a  
## WT/BLK:AftLow 56.33333 a  
## WT/BLK:AftHigh 56.13508 a  
## BL/BR:AftLow 55.70000 a  
## BRN:AftLow 52.96667 ab  
## BLK:AftLow 52.86667 ab  
## WHT:AftLow 47.70000 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT23 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 94.439 18.888 23.687 1.474e-08 \*\*\*  
## THIregime 1 208.891 208.891 261.964 2.049e-14 \*\*\*  
## Colour:THIregime 5 149.838 29.968 37.581 1.369e-10 \*\*\*  
## Residuals 24 19.138 0.797   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7974019   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.98434 0.6664390 6 56.1 57.80315  
## BLK 53.06851 4.5101244 6 48.3 57.24610  
## BRN 52.84021 4.7932203 6 48.1 58.43786  
## WHT 52.59507 5.5270681 6 46.1 58.70901  
## WT/BLK 54.77236 0.7984426 6 53.8 55.70240  
## WT/BR 55.62590 0.7917880 6 54.2 56.50387  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.594072   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.98434 a  
## WT/BR 55.62590 ab  
## WT/BLK 54.77236 b  
## BLK 53.06851 c  
## BRN 52.84021 c  
## WHT 52.59507 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7974019   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.72324 1.113691 18 53.94264 58.70901  
## AftLow 51.90556 3.775536 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6143356   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.72324 a  
## AftLow 51.90556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7974019 24 54.3144 1.644083 2.6289  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.36868 0.42095768 3 56.96268 57.80315 57.15144 57.34019  
## BL/BR:AftLow 56.60000 0.70000000 3 56.10000 57.40000 56.20000 56.30000  
## BLK:AftHigh 57.17036 0.06561208 3 57.13111 57.24610 57.13249 57.13386  
## BLK:AftLow 48.96667 0.61101009 3 48.30000 49.50000 48.70000 49.10000  
## BRN:AftHigh 57.14708 1.16042158 3 56.19025 58.43786 56.50169 56.81313  
## BRN:AftLow 48.53333 0.66583281 3 48.10000 49.30000 48.15000 48.20000  
## WHT:AftHigh 57.49014 1.06113272 3 56.77219 58.70901 56.88071 56.98923  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.07806 0.98493216 3 53.94264 55.70240 54.76589 55.58915  
## WT/BLK:AftLow 54.46667 0.58594653 3 53.80000 54.90000 54.25000 54.70000  
## WT/BR:AftHigh 56.08513 0.41389250 3 55.67626 56.50387 55.87576 56.07526  
## WT/BR:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## Q75  
## BL/BR:AftHigh 57.57167  
## BL/BR:AftLow 56.85000  
## BLK:AftHigh 57.18998  
## BLK:AftLow 49.30000  
## BRN:AftHigh 57.62550  
## BRN:AftLow 48.75000  
## WHT:AftHigh 57.84912  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 55.64577  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 56.28956  
## WT/BR:AftLow 55.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 57.49014 a  
## BL/BR:AftHigh 57.36868 a  
## BLK:AftHigh 57.17036 a  
## BRN:AftHigh 57.14708 a  
## BL/BR:AftLow 56.60000 ab  
## WT/BR:AftHigh 56.08513 ab  
## WT/BR:AftLow 55.16667 ab  
## WT/BLK:AftHigh 55.07806 ab  
## WT/BLK:AftLow 54.46667 b  
## BLK:AftLow 48.96667 c  
## BRN:AftLow 48.53333 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT24 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 117.169 23.434 26.122 5.629e-09 \*\*\*  
## THIregime 1 300.409 300.409 334.872 1.332e-15 \*\*\*  
## Colour:THIregime 5 99.657 19.931 22.218 2.741e-08 \*\*\*  
## Residuals 24 21.530 0.897   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8970871   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.33138 2.0832110 6 54.9 59.64754  
## BLK 55.32358 3.3592498 6 50.2 58.56854  
## BRN 53.92270 5.2030451 6 49.1 59.57212  
## WHT 52.91116 5.8373901 6 46.1 58.52498  
## WT/BLK 57.59817 0.5290843 6 56.9 58.35074  
## WT/BR 57.17865 2.6959796 6 53.8 59.95369  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.690778   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.59817 a  
## BL/BR 57.33138 a  
## WT/BR 57.17865 a  
## BLK 55.32358 b  
## BRN 53.92270 bc  
## WHT 52.91116 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8970871   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.59966 0.7755801 18 57.43353 59.95369  
## AftLow 52.82222 3.6632604 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6516049   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.59966 a  
## AftLow 52.82222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8970871 24 55.71094 1.700109 2.788385  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.19609 0.3932679 3 58.92789 59.64754 58.97036 59.01283  
## BL/BR:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## BLK:AftHigh 58.14717 0.5133613 3 57.57540 58.56854 57.93648 58.29756  
## BLK:AftLow 52.50000 2.0074860 3 50.20000 53.90000 51.80000 53.40000  
## BRN:AftHigh 58.64541 0.8702785 3 57.84547 59.57212 58.18205 58.51864  
## BRN:AftLow 49.20000 0.1000000 3 49.10000 49.30000 49.15000 49.20000  
## WHT:AftHigh 58.12232 0.5993497 3 57.43353 58.52498 57.92099 58.40846  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.92968 0.3831483 3 57.60154 58.35074 57.71915 57.83676  
## WT/BLK:AftLow 57.26667 0.4725816 3 56.90000 57.80000 57.00000 57.10000  
## WT/BR:AftHigh 59.55731 0.4435898 3 59.07817 59.95369 59.35912 59.64007  
## WT/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## Q75  
## BL/BR:AftHigh 59.33018  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 58.43305  
## BLK:AftLow 53.65000  
## BRN:AftHigh 59.04538  
## BRN:AftLow 49.25000  
## WHT:AftHigh 58.46672  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.09375  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 59.79688  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 59.55731 a  
## BL/BR:AftHigh 59.19609 a  
## BRN:AftHigh 58.64541 a  
## BLK:AftHigh 58.14717 ab  
## WHT:AftHigh 58.12232 ab  
## WT/BLK:AftHigh 57.92968 ab  
## WT/BLK:AftLow 57.26667 abc  
## BL/BR:AftLow 55.46667 bc  
## WT/BR:AftLow 54.80000 cd  
## BLK:AftLow 52.50000 d  
## BRN:AftLow 49.20000 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT25 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 69.653 13.931 8.1705 0.0001279 \*\*\*  
## THIregime 1 198.150 198.150 116.2187 1.111e-10 \*\*\*  
## Colour:THIregime 5 83.038 16.608 9.7407 3.522e-05 \*\*\*  
## Residuals 24 40.919 1.705   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.704973   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.95155 1.191011 6 54.9 58.00663  
## BLK 54.07656 3.245806 6 50.1 57.36110  
## BRN 55.04589 3.982022 6 50.1 58.82466  
## WHT 52.82023 5.734258 6 46.1 58.44906  
## WT/BLK 56.03709 1.018213 6 54.8 57.00044  
## WT/BR 56.14525 1.640952 6 54.6 58.36817  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.330923   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.95155 a  
## WT/BR 56.14525 ab  
## WT/BLK 56.03709 ab  
## BRN 55.04589 abc  
## BLK 54.07656 bc  
## WHT 52.82023 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.704973   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.52552 0.7604304 18 55.75008 58.82466  
## AftLow 52.83333 3.2879459 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8983091   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.52552 a  
## AftLow 52.83333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.704973 24 55.17943 2.366364 3.844096  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.76976 0.3074404 3 57.42233 58.00663 57.65132 57.88031  
## BL/BR:AftLow 56.13333 1.2013881 3 54.90000 57.30000 55.55000 56.20000  
## BLK:AftHigh 56.68645 0.8367886 3 55.75008 57.36110 56.34912 56.94817  
## BLK:AftLow 51.46667 2.2810816 3 50.10000 54.10000 50.15000 50.20000  
## BRN:AftHigh 58.25845 0.8162758 3 57.32277 58.82466 57.97535 58.62793  
## BRN:AftLow 51.83333 2.8307832 3 50.10000 55.10000 50.20000 50.30000  
## WHT:AftHigh 57.94045 0.4405674 3 57.67668 58.44906 57.68615 57.69563  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.90751 0.1251371 3 56.76522 57.00044 56.86105 56.95688  
## WT/BLK:AftLow 55.16667 0.5507571 3 54.80000 55.80000 54.85000 54.90000  
## WT/BR:AftHigh 57.59051 0.6749385 3 57.15725 58.36817 57.20167 57.24610  
## WT/BR:AftLow 54.70000 0.1000000 3 54.60000 54.80000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.94347  
## BL/BR:AftLow 56.75000  
## BLK:AftHigh 57.15463  
## BLK:AftLow 52.15000  
## BRN:AftHigh 58.72630  
## BRN:AftLow 52.70000  
## WHT:AftHigh 58.07234  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.97866  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 57.80714  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.25845 a  
## WHT:AftHigh 57.94045 a  
## BL/BR:AftHigh 57.76976 a  
## WT/BR:AftHigh 57.59051 a  
## WT/BLK:AftHigh 56.90751 a  
## BLK:AftHigh 56.68645 a  
## BL/BR:AftLow 56.13333 a  
## WT/BLK:AftLow 55.16667 ab  
## WT/BR:AftLow 54.70000 ab  
## BRN:AftLow 51.83333 b  
## BLK:AftLow 51.46667 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT26 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 80.224 16.045 26.499 4.882e-09 \*\*\*  
## THIregime 1 261.124 261.124 431.262 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 128.050 25.610 42.296 3.928e-11 \*\*\*  
## Residuals 24 14.532 0.605   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6054889   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.95473 1.4368754 6 55.4 58.78135  
## BLK 53.13794 5.2805588 6 48.1 58.45354  
## BRN 55.78390 3.2099192 6 52.4 59.29160  
## WHT 53.18423 6.1617455 6 46.1 59.52060  
## WT/BLK 55.73862 0.7277278 6 54.8 56.74780  
## WT/BR 56.35992 1.4113833 6 54.7 57.86289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.389064   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.95473 a  
## WT/BR 56.35992 a  
## BRN 55.78390 a  
## WT/BLK 55.73862 a  
## WHT 53.18423 b  
## BLK 53.13794 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6054889   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.88645 1.056238 18 55.51074 59.5206  
## AftLow 52.50000 3.462743 18 46.10000 55.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5353282   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.88645 a  
## AftLow 52.50000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6054889 24 55.19322 1.409832 2.290807  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.20946 0.6070443 3 57.57250 58.78135 57.92351 58.27452  
## BL/BR:AftLow 55.70000 0.2645751 3 55.40000 55.90000 55.60000 55.80000  
## BLK:AftHigh 57.94255 0.6282211 3 57.24115 58.45354 57.68705 58.13295  
## BLK:AftLow 48.33333 0.2516611 3 48.10000 48.60000 48.20000 48.30000  
## BRN:AftHigh 58.66780 0.7863571 3 57.78449 59.29160 58.35589 58.92730  
## BRN:AftLow 52.90000 0.4358899 3 52.40000 53.20000 52.75000 53.10000  
## WHT:AftHigh 58.66846 1.1521436 3 57.35761 59.52060 58.24239 59.12717  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.21058 0.6343585 3 55.51074 56.74780 55.94197 56.37320  
## WT/BLK:AftLow 55.26667 0.5033223 3 54.80000 55.80000 55.00000 55.20000  
## WT/BR:AftHigh 57.61983 0.2404846 3 57.38201 57.86289 57.49831 57.61461  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 58.52793  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 58.29325  
## BLK:AftLow 48.45000  
## BRN:AftHigh 59.10945  
## BRN:AftLow 53.15000  
## WHT:AftHigh 59.32388  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.56050  
## WT/BLK:AftLow 55.50000  
## WT/BR:AftHigh 57.73875  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.66846 a  
## BRN:AftHigh 58.66780 a  
## BL/BR:AftHigh 58.20946 ab  
## BLK:AftHigh 57.94255 abc  
## WT/BR:AftHigh 57.61983 abc  
## WT/BLK:AftHigh 56.21058 bcd  
## BL/BR:AftLow 55.70000 cd  
## WT/BLK:AftLow 55.26667 d  
## WT/BR:AftLow 55.10000 de  
## BRN:AftLow 52.90000 e  
## BLK:AftLow 48.33333 f  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT27 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 68.622 13.724 16.021 5.710e-07 \*\*\*  
## THIregime 1 108.735 108.735 126.927 4.562e-11 \*\*\*  
## Colour:THIregime 5 68.388 13.678 15.966 5.887e-07 \*\*\*  
## Residuals 24 20.560 0.857   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8566719   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.98638 0.9273625 6 55.7 57.70608  
## BLK 55.46270 1.0681228 6 54.2 56.54046  
## BRN 55.66368 2.4892812 6 51.2 57.56669  
## WHT 52.40901 5.2911756 6 46.1 57.35886  
## WT/BLK 55.07631 1.2624020 6 53.7 56.24252  
## WT/BR 55.59620 1.3225109 6 54.3 57.54056  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.652253   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.98638 a  
## BRN 55.66368 ab  
## WT/BR 55.59620 ab  
## BLK 55.46270 ab  
## WT/BLK 55.07631 b  
## WHT 52.40901 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8566719   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.93698 0.6187109 18 56.16412 57.70608  
## AftLow 53.46111 2.9809471 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6367579   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.93698 a  
## AftLow 53.46111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8566719 24 55.19905 1.676778 2.724851  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.63943 0.08518029 3 57.54346 57.70608 57.60610 57.66874  
## BL/BR:AftLow 56.33333 0.92915732 3 55.70000 57.40000 55.80000 55.90000  
## BLK:AftHigh 56.39207 0.13311351 3 56.28317 56.54046 56.31787 56.35256  
## BLK:AftLow 54.53333 0.49328829 3 54.20000 55.10000 54.25000 54.30000  
## BRN:AftHigh 57.52736 0.03740188 3 57.49225 57.56669 57.50769 57.52314  
## BRN:AftLow 53.80000 2.25166605 3 51.20000 55.10000 53.15000 55.10000  
## WHT:AftHigh 57.11802 0.32710539 3 56.74562 57.35886 56.99760 57.24959  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.21929 0.04023746 3 56.17283 56.24252 56.20767 56.24252  
## WT/BLK:AftLow 53.93333 0.25166115 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 56.72573 0.72231503 3 56.16412 57.54056 56.31831 56.47251  
## WT/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 57.68741  
## BL/BR:AftLow 56.65000  
## BLK:AftHigh 56.44651  
## BLK:AftLow 54.70000  
## BRN:AftHigh 57.54491  
## BRN:AftLow 55.10000  
## WHT:AftHigh 57.30422  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.24252  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 57.00653  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.63943 a  
## BRN:AftHigh 57.52736 a  
## WHT:AftHigh 57.11802 ab  
## WT/BR:AftHigh 56.72573 ab  
## BLK:AftHigh 56.39207 abc  
## BL/BR:AftLow 56.33333 abc  
## WT/BLK:AftHigh 56.21929 abc  
## BLK:AftLow 54.53333 bc  
## WT/BR:AftLow 54.46667 bc  
## WT/BLK:AftLow 53.93333 c  
## BRN:AftLow 53.80000 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT28 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 77.795 15.559 30.914 1.033e-09 \*\*\*  
## THIregime 1 218.037 218.037 433.217 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 142.344 28.469 56.565 1.700e-12 \*\*\*  
## Residuals 24 12.079 0.503   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5032969   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.00133 0.5880533 6 57.4 58.96803  
## BLK 56.00192 2.1562880 6 53.4 58.17651  
## BRN 54.34327 4.8134744 6 49.3 59.05465  
## WHT 53.44471 6.4016813 6 46.1 59.52246  
## WT/BLK 56.47175 0.5963116 6 55.6 57.11369  
## WT/BR 55.93641 2.2338371 6 53.1 58.39866  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.26643   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.00133 a  
## WT/BLK 56.47175 b  
## BLK 56.00192 b  
## WT/BR 55.93641 b  
## BRN 54.34327 c  
## WHT 53.44471 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5032969   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.16091 0.8552797 18 56.13798 59.52246  
## AftLow 53.23889 3.5956083 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4880667   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.16091 a  
## AftLow 53.23889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5032969 24 55.6999 1.273672 2.088563  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.43599 0.4630193 3 58.12424 58.96803 58.16998 58.21571  
## BL/BR:AftLow 57.56667 0.2886751 3 57.40000 57.90000 57.40000 57.40000  
## BLK:AftHigh 57.93717 0.2121880 3 57.77211 58.17651 57.81750 57.86289  
## BLK:AftLow 54.06667 0.5859465 3 53.40000 54.50000 53.85000 54.30000  
## BRN:AftHigh 58.71988 0.3412361 3 58.37252 59.05465 58.55250 58.73247  
## BRN:AftLow 49.96667 0.5859465 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 59.18943 0.2976471 3 58.94936 59.52246 59.02291 59.09646  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.77684 0.5535394 3 56.13798 57.11369 56.60841 57.07884  
## WT/BLK:AftLow 56.16667 0.5507571 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 57.90616 0.4817090 3 57.43602 58.39866 57.65991 57.88380  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 58.59187  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 58.01970  
## BLK:AftLow 54.40000  
## BRN:AftHigh 58.89356  
## BRN:AftLow 50.30000  
## WHT:AftHigh 59.30946  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.09626  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 58.14123  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 59.18943 a  
## BRN:AftHigh 58.71988 ab  
## BL/BR:AftHigh 58.43599 ab  
## BLK:AftHigh 57.93717 abc  
## WT/BR:AftHigh 57.90616 abc  
## BL/BR:AftLow 57.56667 abc  
## WT/BLK:AftHigh 56.77684 bc  
## WT/BLK:AftLow 56.16667 c  
## BLK:AftLow 54.06667 d  
## WT/BR:AftLow 53.96667 d  
## BRN:AftLow 49.96667 e  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT29 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 99.818 19.964 11.807 7.744e-06 \*\*\*  
## THIregime 1 193.092 193.092 114.197 1.324e-10 \*\*\*  
## Colour:THIregime 5 93.254 18.651 11.030 1.339e-05 \*\*\*  
## Residuals 24 40.581 1.691   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.690874   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.44989 2.1617450 6 54.9 59.48326  
## BLK 55.55934 1.1813136 6 54.2 56.90277  
## BRN 53.98985 4.3691094 6 48.5 59.01758  
## WHT 52.80877 5.7185995 6 46.1 58.27732  
## WT/BLK 57.19686 0.7916714 6 56.1 58.22878  
## WT/BR 56.15773 2.6265117 6 53.7 58.88216  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.321265   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.44989 a  
## WT/BLK 57.19686 a  
## WT/BR 56.15773 ab  
## BLK 55.55934 ab  
## BRN 53.98985 bc  
## WHT 52.80877 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.690874   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.84303 1.247952 18 54.91486 59.48326  
## AftLow 53.21111 3.490978 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8945872   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.84303 a  
## AftLow 53.21111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.690874 24 55.52707 2.341806 3.828169  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.39977 0.08173235 3 59.31992 59.48326 59.35803 59.39614  
## BL/BR:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 56.58534 0.29557882 3 56.31802 56.90277 56.42663 56.53523  
## BLK:AftLow 54.53333 0.49328829 3 54.20000 55.10000 54.25000 54.30000  
## BRN:AftHigh 57.31303 2.13749750 3 54.91486 59.01758 56.46075 58.00663  
## BRN:AftLow 50.66667 3.16596483 3 48.50000 54.30000 48.85000 49.20000  
## WHT:AftHigh 57.91755 0.31189234 3 57.72350 58.27732 57.73766 57.75182  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.29373 0.86528093 3 56.52129 58.22878 56.82620 57.13111  
## WT/BLK:AftLow 57.10000 0.88881944 3 56.10000 57.80000 56.75000 57.40000  
## WT/BR:AftHigh 58.54879 0.30258634 3 58.29150 58.88216 58.38211 58.47271  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 59.43970  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.71900  
## BLK:AftLow 54.70000  
## BRN:AftHigh 58.51211  
## BRN:AftLow 51.75000  
## WHT:AftHigh 58.01457  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.67995  
## WT/BLK:AftLow 57.60000  
## WT/BR:AftHigh 58.67743  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.39977 a  
## WT/BR:AftHigh 58.54879 ab  
## WHT:AftHigh 57.91755 abc  
## BRN:AftHigh 57.31303 abcd  
## WT/BLK:AftHigh 57.29373 abcd  
## WT/BLK:AftLow 57.10000 abcd  
## BLK:AftHigh 56.58534 abcd  
## BL/BR:AftLow 55.50000 bcd  
## BLK:AftLow 54.53333 cd  
## WT/BR:AftLow 53.76667 de  
## BRN:AftLow 50.66667 ef  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT30 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 110.925 22.185 36.893 1.661e-10 \*\*\*  
## THIregime 1 245.335 245.335 407.986 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 100.566 20.113 33.448 4.602e-10 \*\*\*  
## Residuals 24 14.432 0.601   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.601332   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.31127 0.937464 6 55.9 58.10000  
## BLK 53.42378 3.837973 6 49.4 57.20167  
## BRN 53.14360 4.571314 6 48.3 57.71915  
## WHT 52.65557 5.553733 6 46.1 57.89774  
## WT/BLK 55.96827 1.200037 6 54.2 57.09626  
## WT/BR 56.06067 1.810163 6 53.7 57.90471  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.384288   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.31127 a  
## WT/BR 56.06067 a  
## WT/BLK 55.96827 a  
## BLK 53.42378 b  
## BRN 53.14360 b  
## WHT 52.65557 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.601332   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.37106 0.4714174 18 56.59796 58.00228  
## AftLow 52.15000 3.6148794 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5334875   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.37106 a  
## AftLow 52.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.601332 24 54.76053 1.416086 2.28293  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.82255 0.2879157 3 57.49047 58.00228 57.73268 57.97490  
## BL/BR:AftLow 56.80000 1.1532563 3 55.90000 58.10000 56.15000 56.40000  
## BLK:AftHigh 56.91422 0.2493353 3 56.75651 57.20167 56.77049 56.78448  
## BLK:AftLow 49.93333 0.4618802 3 49.40000 50.20000 49.80000 50.20000  
## BRN:AftHigh 57.28721 0.6032614 3 56.59796 57.71915 57.07124 57.54452  
## BRN:AftLow 49.00000 0.6082763 3 48.30000 49.40000 48.80000 49.30000  
## WHT:AftHigh 57.61113 0.2774154 3 57.34392 57.89774 57.46783 57.59174  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.93655 0.2399006 3 56.66068 57.09626 56.85669 57.05271  
## WT/BLK:AftLow 55.00000 0.8544004 3 54.20000 55.90000 54.55000 54.90000  
## WT/BR:AftHigh 57.65468 0.3547082 3 57.24872 57.90471 57.52967 57.81062  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 57.98859  
## BL/BR:AftLow 57.25000  
## BLK:AftHigh 56.99308  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.63183  
## BRN:AftLow 49.35000  
## WHT:AftHigh 57.74474  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.07448  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.85766  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.82255 a  
## WT/BR:AftHigh 57.65468 a  
## WHT:AftHigh 57.61113 a  
## BRN:AftHigh 57.28721 a  
## WT/BLK:AftHigh 56.93655 ab  
## BLK:AftHigh 56.91422 ab  
## BL/BR:AftLow 56.80000 ab  
## WT/BLK:AftLow 55.00000 bc  
## WT/BR:AftLow 54.46667 c  
## BLK:AftLow 49.93333 d  
## BRN:AftLow 49.00000 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT31 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 98.308 19.662 18.135 1.857e-07 \*\*\*  
## THIregime 1 155.706 155.706 143.613 1.285e-11 \*\*\*  
## Colour:THIregime 5 71.497 14.299 13.189 3.092e-06 \*\*\*  
## Residuals 24 26.021 1.084   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.084204   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.08604 2.1226718 6 54.2 59.68653  
## BLK 55.21483 1.2984061 6 53.2 56.74321  
## BRN 55.06221 3.1386379 6 50.1 57.77926  
## WHT 52.46850 5.3512280 6 46.1 57.32386  
## WT/BLK 57.35443 0.7583545 6 56.2 58.17651  
## WT/BR 56.52553 2.3219231 6 53.6 59.13044  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.858766   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.35443 a  
## BL/BR 57.08604 a  
## WT/BR 56.52553 ab  
## BLK 55.21483 b  
## BRN 55.06221 b  
## WHT 52.46850 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.084204   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.69829 0.9995114 18 55.84178 59.68653  
## AftLow 53.53889 3.2434801 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7163457   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.69829 a  
## AftLow 53.53889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.084204 24 55.61859 1.872128 3.065427  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.90542 0.6932584 3 58.36319 59.68653 58.51486 58.66654  
## BL/BR:AftLow 55.26667 0.9237604 3 54.20000 55.80000 55.00000 55.80000  
## BLK:AftHigh 56.22967 0.4636663 3 55.84178 56.74321 55.97289 56.10400  
## BLK:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 57.65774 0.1175892 3 57.54452 57.77926 57.59699 57.64945  
## BRN:AftLow 52.46667 2.0984121 3 50.10000 54.10000 51.65000 53.20000  
## WHT:AftHigh 57.23701 0.1149035 3 57.10672 57.32386 57.19359 57.28045  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.64219 0.7655039 3 56.76522 58.17651 57.37504 57.98485  
## WT/BLK:AftLow 57.06667 0.7767453 3 56.20000 57.70000 56.75000 57.30000  
## WT/BR:AftHigh 58.51772 0.6545983 3 57.82804 59.13044 58.21136 58.59467  
## WT/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 59.17654  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.42361  
## BLK:AftLow 54.70000  
## BRN:AftHigh 57.71436  
## BRN:AftLow 53.65000  
## WHT:AftHigh 57.30215  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.08068  
## WT/BLK:AftLow 57.50000  
## WT/BR:AftHigh 58.86255  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.90542 a  
## WT/BR:AftHigh 58.51772 a  
## BRN:AftHigh 57.65774 ab  
## WT/BLK:AftHigh 57.64219 ab  
## WHT:AftHigh 57.23701 abc  
## WT/BLK:AftLow 57.06667 abc  
## BLK:AftHigh 56.22967 abc  
## BL/BR:AftLow 55.26667 bcd  
## WT/BR:AftLow 54.53333 cd  
## BLK:AftLow 54.20000 cd  
## BRN:AftLow 52.46667 d  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT32 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 83.978 16.796 9.713 3.599e-05 \*\*\*  
## THIregime 1 181.935 181.935 105.214 2.985e-10 \*\*\*  
## Colour:THIregime 5 116.776 23.355 13.506 2.528e-06 \*\*\*  
## Residuals 24 41.500 1.729   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.729187   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.95389 1.1813335 6 54.7 57.80000  
## BLK 52.88771 4.4311020 6 48.1 57.22113  
## BRN 54.27693 3.2079719 6 48.3 56.76958  
## WHT 52.85590 5.7684236 6 46.1 58.30544  
## WT/BLK 55.39173 0.9914923 6 53.7 56.13798  
## WT/BR 55.95549 1.5694344 6 54.2 57.46564  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.347417   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.95389 a  
## WT/BR 55.95549 ab  
## WT/BLK 55.39173 ab  
## BRN 54.27693 bc  
## BLK 52.88771 c  
## WHT 52.85590 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.729187   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.96833 0.8635851 18 54.67442 58.30544  
## AftLow 52.47222 3.6748438 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9046656   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.96833 a  
## AftLow 52.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.729187 24 54.72028 2.403105 3.871297  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.37445 0.56118825 3 56.72788 57.73512 57.19411 57.66034  
## BL/BR:AftLow 56.53333 1.62583312 3 54.70000 57.80000 55.90000 57.10000  
## BLK:AftHigh 56.87542 0.30194084 3 56.66343 57.22113 56.70256 56.74170  
## BLK:AftLow 48.90000 1.13578167 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 56.52053 0.28842728 3 56.20451 56.76958 56.39600 56.58750  
## BRN:AftLow 52.03333 3.24704994 3 48.30000 54.20000 50.95000 53.60000  
## WHT:AftHigh 58.01181 0.27703013 3 57.75508 58.30544 57.86499 57.97490  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.65013 0.84498676 3 54.67442 56.13798 55.40620 56.13798  
## WT/BLK:AftLow 55.13333 1.24230968 3 53.70000 55.90000 54.75000 55.80000  
## WT/BR:AftHigh 57.37765 0.08290743 3 57.30099 57.46564 57.33366 57.36633  
## WT/BR:AftLow 54.53333 0.28867513 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 57.69773  
## BL/BR:AftLow 57.45000  
## BLK:AftHigh 56.98141  
## BLK:AftLow 49.30000  
## BRN:AftHigh 56.67854  
## BRN:AftLow 53.90000  
## WHT:AftHigh 58.14017  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.13798  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 57.41598  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.01181 a  
## WT/BR:AftHigh 57.37765 a  
## BL/BR:AftHigh 57.37445 a  
## BLK:AftHigh 56.87542 a  
## BL/BR:AftLow 56.53333 a  
## BRN:AftHigh 56.52053 a  
## WT/BLK:AftHigh 55.65013 ab  
## WT/BLK:AftLow 55.13333 ab  
## WT/BR:AftLow 54.53333 ab  
## BRN:AftLow 52.03333 bc  
## BLK:AftLow 48.90000 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT33 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 58.582 11.716 3.4413 0.017427 \*   
## THIregime 1 204.578 204.578 60.0877 5.49e-08 \*\*\*  
## Colour:THIregime 5 98.118 19.624 5.7638 0.001244 \*\*   
## Residuals 24 81.712 3.405   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.404654   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.64704 2.528622 6 54.20000 59.54300  
## BLK 55.09714 2.917812 6 49.90000 57.77287  
## BRN 54.75307 3.485036 6 48.30000 57.36633  
## WHT 53.37431 6.329181 6 46.10000 59.37499  
## WT/BLK 56.51298 2.460738 6 52.37454 59.29160  
## WT/BR 56.98520 1.927376 6 54.30000 59.19578  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.293864   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.98520 a  
## BL/BR 56.64704 ab  
## WT/BLK 56.51298 ab  
## BLK 55.09714 ab  
## BRN 54.75307 ab  
## WHT 53.37431 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.404654   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.94547 1.687339 18 52.37454 59.543  
## AftLow 53.17778 3.343221 18 46.10000 57.400  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.269415   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.94547 a  
## AftLow 53.17778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.404654 24 55.56162 3.320944 5.432152  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.89408 0.8759286 3 57.89774 59.54300 58.56962 59.24151  
## BL/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BLK:AftHigh 57.16094 0.9449263 3 56.07264 57.77287 56.85497 57.63730  
## BLK:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 57.23948 0.1171114 3 57.13547 57.36633 57.17605 57.21664  
## BRN:AftLow 52.26667 3.4355980 3 48.30000 54.30000 51.25000 54.20000  
## WHT:AftHigh 59.04861 0.4394490 3 58.54893 59.37499 58.88542 59.22191  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.69262 3.7653586 3 52.37454 59.29160 55.39313 58.41173  
## WT/BLK:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## WT/BR:AftHigh 58.63707 0.4874684 3 58.29847 59.19578 58.35771 58.41695  
## WT/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 59.39225  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 57.70509  
## BLK:AftLow 54.60000  
## BRN:AftHigh 57.29148  
## BRN:AftLow 54.25000  
## WHT:AftHigh 59.29845  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.85166  
## WT/BLK:AftLow 56.65000  
## WT/BR:AftHigh 58.80636  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 59.04861 a  
## BL/BR:AftHigh 58.89408 a  
## WT/BR:AftHigh 58.63707 a  
## BRN:AftHigh 57.23948 ab  
## BLK:AftHigh 57.16094 ab  
## WT/BLK:AftHigh 56.69262 ab  
## WT/BLK:AftLow 56.33333 ab  
## WT/BR:AftLow 55.33333 ab  
## BL/BR:AftLow 54.40000 ab  
## BLK:AftLow 53.03333 bc  
## BRN:AftLow 52.26667 bc  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT34 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 83.927 16.785 29.69 1.558e-09 \*\*\*  
## THIregime 1 161.575 161.575 285.80 7.817e-15 \*\*\*  
## Colour:THIregime 5 213.221 42.644 75.43 7.004e-14 \*\*\*  
## Residuals 24 13.568 0.565   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5653507   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.48082 0.6035716 6 55.70000 57.20000  
## BLK 53.52356 4.0311638 6 49.10000 57.47087  
## BRN 52.60482 4.3222524 6 48.50000 56.99608  
## WHT 52.40481 5.2915961 6 46.10000 57.62441  
## WT/BLK 55.19717 2.5392699 6 52.66203 57.90000  
## WT/BR 55.46673 2.8156102 6 51.60000 58.25491  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.342234   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.48082 a  
## WT/BR 55.46673 a  
## WT/BLK 55.19717 a  
## BLK 53.52356 b  
## BRN 52.60482 b  
## WHT 52.40481 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5653507   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.39819 1.696960 18 52.66203 58.25491  
## AftLow 52.16111 3.924004 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5172804   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.39819 a  
## AftLow 52.16111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5653507 24 54.27965 1.38523 2.213576  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.72830 0.1538502 3 56.59348 56.89590 56.64450 56.69553  
## BL/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## BLK:AftHigh 57.18045 0.2526863 3 57.01089 57.47087 57.03524 57.05958  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 56.54297 0.3927490 3 56.30002 56.99608 56.31641 56.33280  
## BRN:AftLow 48.66667 0.1527525 3 48.50000 48.80000 48.60000 48.70000  
## WHT:AftHigh 57.10961 0.4867144 3 56.65695 57.62441 56.85221 57.04748  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 52.89434 0.2839433 3 52.66203 53.21086 52.73607 52.81012  
## WT/BLK:AftLow 57.50000 0.3605551 3 57.20000 57.90000 57.30000 57.40000  
## WT/BR:AftHigh 57.93345 0.3080939 3 57.64074 58.25491 57.77272 57.90471  
## WT/BR:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## Q75  
## BL/BR:AftHigh 56.79571  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 57.26522  
## BLK:AftLow 50.25000  
## BRN:AftHigh 56.66444  
## BRN:AftLow 48.75000  
## WHT:AftHigh 57.33594  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 53.01049  
## WT/BLK:AftLow 57.65000  
## WT/BR:AftHigh 58.07981  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 57.93345 a  
## WT/BLK:AftLow 57.50000 a  
## BLK:AftHigh 57.18045 a  
## WHT:AftHigh 57.10961 a  
## BL/BR:AftHigh 56.72830 a  
## BRN:AftHigh 56.54297 a  
## BL/BR:AftLow 56.23333 a  
## WT/BR:AftLow 53.00000 b  
## WT/BLK:AftHigh 52.89434 b  
## BLK:AftLow 49.86667 c  
## BRN:AftLow 48.66667 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT35 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 145.07 29.01 42.290 3.935e-11 \*\*\*  
## THIregime 1 369.91 369.91 539.159 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 109.97 21.99 32.056 7.127e-10 \*\*\*  
## Residuals 24 16.47 0.69   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6860929   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.22767 0.7389394 6 57.3 59.36379  
## BLK 53.60778 5.1732952 6 48.3 58.58886  
## BRN 53.73049 4.4023660 6 49.3 58.35708  
## WHT 53.39647 6.3515760 6 46.1 59.38992  
## WT/BLK 57.62318 2.7175095 6 54.9 61.26044  
## WT/BR 56.54753 2.2026696 6 53.8 58.79068  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.478634   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.22767 a  
## WT/BLK 57.62318 ab  
## WT/BR 56.54753 b  
## BRN 53.73049 c  
## BLK 53.60778 c  
## WHT 53.39647 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6860929   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.72771 0.9474546 18 57.27224 61.26044  
## AftLow 52.31667 3.8824265 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5698473   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.72771 a  
## AftLow 52.31667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6860929 24 55.52219 1.491849 2.438523  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.82200 0.4712151 3 58.50755 59.36379 58.55111 58.59467  
## BL/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BLK:AftHigh 58.31557 0.3844514 3 57.87596 58.58886 58.17892 58.48188  
## BLK:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 57.72765 0.5629674 3 57.27224 58.35708 57.41293 57.55363  
## BRN:AftLow 49.73333 0.4509250 3 49.30000 50.20000 49.50000 49.70000  
## WHT:AftHigh 59.09294 0.3834759 3 58.66001 59.38992 58.94444 59.22888  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.91304 1.5901437 3 58.15909 61.26044 59.23933 60.31958  
## WT/BLK:AftLow 55.33333 0.4509250 3 54.90000 55.80000 55.10000 55.30000  
## WT/BR:AftHigh 58.49507 0.3327541 3 58.13469 58.79068 58.34726 58.55982  
## WT/BR:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## Q75  
## BL/BR:AftHigh 58.97923  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 58.53537  
## BLK:AftLow 49.20000  
## BRN:AftHigh 57.95535  
## BRN:AftLow 49.95000  
## WHT:AftHigh 59.30940  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.79001  
## WT/BLK:AftLow 55.55000  
## WT/BR:AftHigh 58.67525  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.91304 a  
## WHT:AftHigh 59.09294 a  
## BL/BR:AftHigh 58.82200 a  
## WT/BR:AftHigh 58.49507 a  
## BLK:AftHigh 58.31557 a  
## BRN:AftHigh 57.72765 ab  
## BL/BR:AftLow 57.63333 ab  
## WT/BLK:AftLow 55.33333 bc  
## WT/BR:AftLow 54.60000 c  
## BRN:AftLow 49.73333 d  
## BLK:AftLow 48.90000 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT36 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 85.090 17.018 12.883 3.767e-06 \*\*\*  
## THIregime 1 172.171 172.171 130.333 3.484e-11 \*\*\*  
## Colour:THIregime 5 162.670 32.534 24.628 1.007e-08 \*\*\*  
## Residuals 24 31.704 1.321   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.321014   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.91869 2.133110 6 54.60000 59.09414  
## BLK 52.93777 4.761626 6 48.20000 57.83813  
## BRN 55.88223 2.292219 6 52.50000 57.50000  
## WHT 52.61987 5.529344 6 46.10000 57.94304  
## WT/BLK 54.88011 2.031999 6 52.40068 57.20000  
## WT/BR 55.34940 2.475665 6 53.10000 58.62952  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.051743   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.91869 a  
## BRN 55.88223 a  
## WT/BR 55.34940 a  
## WT/BLK 54.88011 ab  
## BLK 52.93777 bc  
## WHT 52.61987 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.321014   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.95158 1.925271 18 52.40068 59.09414  
## AftLow 52.57778 3.568251 18 46.10000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7907165   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.95158 a  
## AftLow 52.57778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.321014 24 54.76468 2.098714 3.383679  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.83739 0.2263734 3 58.66654 59.09414 58.70901 58.75148  
## BL/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BLK:AftHigh 57.24221 0.9137024 3 56.19025 57.83813 56.94424 57.69824  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 57.29779 0.1444807 3 57.13111 57.38723 57.25307 57.37504  
## BRN:AftLow 54.46667 2.6652079 3 52.50000 57.50000 52.95000 53.40000  
## WHT:AftHigh 57.53974 0.6773317 3 56.75775 57.94304 57.33809 57.91843  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 53.26023 1.4214262 3 52.40068 54.90092 52.43988 52.47908  
## WT/BLK:AftLow 56.50000 0.6557439 3 55.90000 57.20000 56.15000 56.40000  
## WT/BR:AftHigh 57.53214 1.0079516 3 56.64761 58.62952 56.98345 57.31928  
## WT/BR:AftLow 53.16667 0.1154701 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 58.92281  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 57.76819  
## BLK:AftLow 48.85000  
## BRN:AftHigh 57.38113  
## BRN:AftLow 55.45000  
## WHT:AftHigh 57.93073  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 53.69000  
## WT/BLK:AftLow 56.80000  
## WT/BR:AftHigh 57.97440  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.83739 a  
## WHT:AftHigh 57.53974 ab  
## WT/BR:AftHigh 57.53214 ab  
## BRN:AftHigh 57.29779 ab  
## BLK:AftHigh 57.24221 ab  
## WT/BLK:AftLow 56.50000 abc  
## BL/BR:AftLow 55.00000 bc  
## BRN:AftLow 54.46667 bc  
## WT/BLK:AftHigh 53.26023 c  
## WT/BR:AftLow 53.16667 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT37 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 125.017 25.003 22.349 2.590e-08 \*\*\*  
## THIregime 1 258.325 258.325 230.899 8.188e-14 \*\*\*  
## Colour:THIregime 5 132.202 26.440 23.633 1.507e-08 \*\*\*  
## Residuals 24 26.851 1.119   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.118779   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.46938 0.7011603 6 56.1 58.03930  
## BLK 54.35971 3.8578714 6 50.1 58.31241  
## BRN 53.08813 5.0132071 6 48.2 58.21136  
## WHT 53.10120 6.0377586 6 46.1 59.07904  
## WT/BLK 57.31811 1.9686504 6 54.2 59.40486  
## WT/BR 56.50261 1.6242749 6 54.6 58.18522  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.888171   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.46938 a  
## WT/BLK 57.31811 a  
## WT/BR 56.50261 a  
## BLK 54.35971 b  
## WHT 53.10120 b  
## BRN 53.08813 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.118779   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.98527 0.5766831 18 57.2309 59.40486  
## AftLow 52.62778 4.0469023 18 46.1000 58.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7276781   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.98527 a  
## AftLow 52.62778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.118779 24 55.30653 1.912475 3.113922  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.70542 0.2976230 3 57.46796 58.03930 57.53848 57.60901  
## BL/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BLK:AftHigh 57.85276 0.4005624 3 57.57831 58.31241 57.62294 57.66757  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 57.64293 0.5085937 3 57.23090 58.21136 57.35872 57.48655  
## BRN:AftLow 48.53333 0.5773503 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 58.50240 0.5074013 3 58.12424 59.07904 58.21408 58.30392  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.33622 0.9323654 3 57.68866 59.40486 57.80191 57.91516  
## WT/BLK:AftLow 56.30000 2.3895606 3 54.20000 58.90000 55.00000 55.80000  
## WT/BR:AftHigh 57.87189 0.5172635 3 57.27485 58.18522 57.71523 58.15560  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.82415  
## BL/BR:AftLow 57.80000  
## BLK:AftHigh 57.98999  
## BLK:AftLow 51.25000  
## BRN:AftHigh 57.84895  
## BRN:AftLow 48.70000  
## WHT:AftHigh 58.69148  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.66001  
## WT/BLK:AftLow 57.35000  
## WT/BR:AftHigh 58.17041  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.50240 a  
## WT/BLK:AftHigh 58.33622 a  
## WT/BR:AftHigh 57.87189 ab  
## BLK:AftHigh 57.85276 ab  
## BL/BR:AftHigh 57.70542 ab  
## BRN:AftHigh 57.64293 ab  
## BL/BR:AftLow 57.23333 ab  
## WT/BLK:AftLow 56.30000 ab  
## WT/BR:AftLow 55.13333 b  
## BLK:AftLow 50.86667 c  
## BRN:AftLow 48.53333 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT38 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 86.27 17.25 10.7422 1.651e-05 \*\*\*  
## THIregime 1 346.47 346.47 215.7175 1.716e-13 \*\*\*  
## Colour:THIregime 5 77.24 15.45 9.6177 3.878e-05 \*\*\*  
## Residuals 24 38.55 1.61   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.606113   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.70221 2.927624 6 53.7 59.69887  
## BLK 53.98230 3.807398 6 49.1 57.26591  
## BRN 54.60810 3.551914 6 51.2 58.70444  
## WHT 53.56844 6.533657 6 46.1 59.65401  
## WT/BLK 57.93811 1.631100 6 56.3 60.73774  
## WT/BR 55.91445 3.378933 6 52.5 59.57473  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.262336   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.93811 a  
## BL/BR 56.70221 ab  
## WT/BR 55.91445 abc  
## BRN 54.60810 bcd  
## BLK 53.98230 cd  
## WHT 53.56844 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.606113   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.55454 1.215648 18 56.66068 60.73774  
## AftLow 52.35000 3.226043 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8718766   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.55454 a  
## AftLow 52.35000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.606113 24 55.45227 2.285434 3.730984  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.33775 0.6048482 3 58.63947 59.69887 59.15719 59.67492  
## BL/BR:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## BLK:AftHigh 56.99794 0.3085072 3 56.66068 57.26591 56.86395 57.06722  
## BLK:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 57.81619 0.7711133 3 57.31841 58.70444 57.37207 57.42572  
## BRN:AftLow 51.40000 0.2645751 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 59.43688 0.2142433 3 59.22564 59.65401 59.32832 59.43099  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.80956 1.9518281 3 56.83491 60.73774 57.84547 58.85602  
## WT/BLK:AftLow 57.06667 0.7505553 3 56.30000 57.80000 56.70000 57.10000  
## WT/BR:AftHigh 58.92891 0.8956468 3 57.90645 59.57473 58.60600 59.30554  
## WT/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 59.68690  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 57.16657  
## BLK:AftLow 51.90000  
## BRN:AftHigh 58.06508  
## BRN:AftLow 51.50000  
## WHT:AftHigh 59.54250  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.79688  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 59.44014  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 59.43688 a  
## BL/BR:AftHigh 59.33775 a  
## WT/BR:AftHigh 58.92891 a  
## WT/BLK:AftHigh 58.80956 a  
## BRN:AftHigh 57.81619 a  
## WT/BLK:AftLow 57.06667 ab  
## BLK:AftHigh 56.99794 ab  
## BL/BR:AftLow 54.06667 bc  
## WT/BR:AftLow 52.90000 c  
## BRN:AftLow 51.40000 cd  
## BLK:AftLow 50.96667 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT39 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 39.018 7.804 5.3863 0.001849 \*\*   
## THIregime 1 103.599 103.599 71.5066 1.166e-08 \*\*\*  
## Colour:THIregime 5 100.351 20.070 13.8529 2.036e-06 \*\*\*  
## Residuals 24 34.771 1.449   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.448806   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.96265 0.4286175 6 55.40000 56.51880  
## BLK 55.18001 1.6711672 6 53.20000 57.02396  
## BRN 54.56405 3.2331456 6 49.10000 57.29315  
## WHT 52.54554 5.4351473 6 46.10000 57.64684  
## WT/BLK 54.38230 1.5050360 6 52.53135 56.66068  
## WT/BR 54.81048 1.5838425 6 52.60000 56.37842  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.148692   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 55.96265 a  
## BLK 55.18001 a  
## WT/BR 54.81048 a  
## BRN 54.56405 ab  
## WT/BLK 54.38230 ab  
## WHT 52.54554 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.448806   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.27057 1.364880 18 52.53135 57.64684  
## AftLow 52.87778 2.894936 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8280796   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.27057 a  
## AftLow 52.87778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.448806 24 54.57417 2.205555 3.543566  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.25863 0.2305081 3 56.07990 56.51880 56.12854 56.17718  
## BL/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BLK:AftHigh 56.66001 0.3174011 3 56.44060 57.02396 56.47804 56.51549  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 57.06144 0.3144823 3 56.70345 57.29315 56.94559 57.18774  
## BRN:AftLow 52.06667 2.7061658 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 57.39107 0.2333079 3 57.18991 57.64684 57.26319 57.33646  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 54.06460 2.2605390 3 52.53135 56.66068 52.76657 53.00178  
## WT/BLK:AftLow 54.70000 0.5000000 3 54.20000 55.20000 54.45000 54.70000  
## WT/BR:AftHigh 56.18764 0.2417028 3 55.91583 56.37842 56.09224 56.26866  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 56.34799  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.76972  
## BLK:AftLow 53.95000  
## BRN:AftHigh 57.24044  
## BRN:AftLow 53.55000  
## WHT:AftHigh 57.49165  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 54.83123  
## WT/BLK:AftLow 54.95000  
## WT/BR:AftHigh 56.32354  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 57.39107 a  
## BRN:AftHigh 57.06144 ab  
## BLK:AftHigh 56.66001 abc  
## BL/BR:AftHigh 56.25863 abc  
## WT/BR:AftHigh 56.18764 abc  
## BL/BR:AftLow 55.66667 abc  
## WT/BLK:AftLow 54.70000 abcd  
## WT/BLK:AftHigh 54.06460 abcd  
## BLK:AftLow 53.70000 bcd  
## WT/BR:AftLow 53.43333 cd  
## BRN:AftLow 52.06667 d  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT40 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 71.817 14.363 7.6771 0.0001975 \*\*\*  
## THIregime 1 191.431 191.431 102.3178 3.928e-10 \*\*\*  
## Colour:THIregime 5 94.675 18.935 10.1206 2.628e-05 \*\*\*  
## Residuals 24 44.903 1.871   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.870943   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.27273 1.522958 6 54.2 58.26612  
## BLK 54.73218 2.684289 6 50.2 57.03238  
## BRN 54.73067 2.753275 6 50.2 57.62245  
## WHT 53.07293 6.002453 6 46.1 58.78508  
## WT/BLK 56.87079 1.303041 6 55.8 59.27418  
## WT/BR 55.22322 3.371807 6 51.3 58.64694  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.44174   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.27273 a  
## WT/BLK 56.87079 ab  
## WT/BR 55.22322 abc  
## BLK 54.73218 bc  
## BRN 54.73067 bc  
## WHT 53.07293 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.870943   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.62306 0.9455024 18 55.80694 59.27418  
## AftLow 53.01111 3.3972115 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9410167   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.62306 a  
## AftLow 53.01111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.870943 24 55.31709 2.472697 4.026852  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.04545 0.1928280 3 57.90935 58.26612 57.93512 57.96090  
## BL/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## BLK:AftHigh 56.83103 0.2339158 3 56.57443 57.03238 56.73035 56.88627  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 56.89468 0.6318235 3 56.48645 57.62245 56.53080 56.57515  
## BRN:AftLow 52.56667 2.1221059 3 50.20000 54.30000 51.70000 53.20000  
## WHT:AftHigh 58.44587 0.3291850 3 58.12772 58.78508 58.27626 58.42479  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.30825 1.7797049 3 55.80694 59.27418 56.32528 56.84363  
## WT/BLK:AftLow 56.43333 0.7094599 3 55.80000 57.20000 56.05000 56.30000  
## WT/BR:AftHigh 58.21310 0.3757264 3 57.99357 58.64694 57.99618 57.99879  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 58.11351  
## BL/BR:AftLow 57.65000  
## BLK:AftHigh 56.95932  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.09880  
## BRN:AftLow 53.75000  
## WHT:AftHigh 58.60494  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.05890  
## WT/BLK:AftLow 56.75000  
## WT/BR:AftHigh 58.32287  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.44587 a  
## WT/BR:AftHigh 58.21310 a  
## BL/BR:AftHigh 58.04545 a  
## WT/BLK:AftHigh 57.30825 a  
## BRN:AftHigh 56.89468 a  
## BLK:AftHigh 56.83103 a  
## BL/BR:AftLow 56.50000 ab  
## WT/BLK:AftLow 56.43333 ab  
## BLK:AftLow 52.63333 bc  
## BRN:AftLow 52.56667 bc  
## WT/BR:AftLow 52.23333 c  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT41 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 95.467 19.093 14.24 1.606e-06 \*\*\*  
## THIregime 1 156.575 156.575 116.78 1.058e-10 \*\*\*  
## Colour:THIregime 5 179.732 35.946 26.81 4.347e-09 \*\*\*  
## Residuals 24 32.179 1.341   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.340802   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.78603 1.718482 6 54.70000 58.89667  
## BLK 52.26448 4.090842 6 48.10000 56.69466  
## BRN 55.18846 2.897172 6 50.20000 58.09573  
## WHT 53.00176 5.976369 6 46.10000 59.68114  
## WT/BLK 55.09956 2.301897 6 52.47908 57.80000  
## WT/BR 56.23939 2.144705 6 53.60000 58.62952  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.067052   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.78603 a  
## WT/BR 56.23939 a  
## BRN 55.18846 a  
## WT/BLK 55.09956 a  
## WHT 53.00176 b  
## BLK 52.26448 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.340802   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.84878 2.044896 18 52.47908 59.68114  
## AftLow 52.67778 3.728200 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7966167   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.84878 a  
## AftLow 52.67778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.340802 24 54.76328 2.114428 3.408928  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.13872 1.2166587 3 56.73535 58.89667 57.75975 58.78415  
## BL/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 55.96228 0.6346362 3 55.57401 56.69466 55.59610 55.61818  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 57.41025 0.6569526 3 56.78613 58.09573 57.06751 57.34890  
## BRN:AftLow 52.96667 2.3965253 3 50.20000 54.40000 52.25000 54.30000  
## WHT:AftHigh 58.30352 1.2674482 3 57.18686 59.68114 57.61472 58.04257  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 53.13246 0.9353994 3 52.47908 54.20399 52.59669 52.71429  
## WT/BLK:AftLow 57.06667 0.8736895 3 56.10000 57.80000 56.70000 57.30000  
## WT/BR:AftHigh 58.14544 0.4323799 3 57.79755 58.62952 57.90340 58.00925  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 58.84041  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 56.15642  
## BLK:AftLow 48.80000  
## BRN:AftHigh 57.72232  
## BRN:AftLow 54.35000  
## WHT:AftHigh 58.86185  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 53.45914  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 58.31938  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.30352 a  
## WT/BR:AftHigh 58.14544 a  
## BL/BR:AftHigh 58.13872 a  
## BRN:AftHigh 57.41025 ab  
## WT/BLK:AftLow 57.06667 ab  
## BLK:AftHigh 55.96228 abc  
## BL/BR:AftLow 55.43333 abc  
## WT/BR:AftLow 54.33333 bc  
## WT/BLK:AftHigh 53.13246 c  
## BRN:AftLow 52.96667 c  
## BLK:AftLow 48.56667 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT42 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 85.255 17.051 18.681 1.411e-07 \*\*\*  
## THIregime 1 238.241 238.241 261.023 2.132e-14 \*\*\*  
## Colour:THIregime 5 131.441 26.288 28.802 2.118e-09 \*\*\*  
## Residuals 24 21.905 0.913   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9127221   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.08506 1.424041 6 54.60000 57.54180  
## BLK 53.35081 4.449997 6 49.20000 57.85464  
## BRN 52.24145 4.091824 6 48.10000 56.41501  
## WHT 53.02079 5.950010 6 46.10000 58.73754  
## WT/BLK 55.92373 1.546812 6 54.41307 57.91516  
## WT/BR 55.57988 1.396032 6 53.70000 57.16247  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.705448   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.08506 a  
## WT/BLK 55.92373 a  
## WT/BR 55.57988 a  
## BLK 53.35081 b  
## WHT 53.02079 b  
## BRN 52.24145 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9127221   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.93947 1.158898 18 54.41307 58.73754  
## AftLow 51.79444 3.562628 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6572587   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.93947 a  
## AftLow 51.79444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9127221 24 54.36696 1.757253 2.812579  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.37013 0.2925134 3 57.03238 57.54180 57.28429 57.53620  
## BL/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 57.40161 0.5187093 3 56.83578 57.85464 57.17510 57.51442  
## BLK:AftLow 49.30000 0.1000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 55.94957 0.4047085 3 55.68062 56.41501 55.71685 55.75308  
## BRN:AftLow 48.53333 0.6658328 3 48.10000 49.30000 48.15000 48.20000  
## WHT:AftHigh 58.34159 0.4626549 3 57.83302 58.73754 58.14361 58.45419  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.78080 1.8726842 3 54.41307 57.91516 54.71362 55.01418  
## WT/BLK:AftLow 56.06667 1.5534907 3 54.80000 57.80000 55.20000 55.60000  
## WT/BR:AftHigh 56.79310 0.3365365 3 56.50387 57.16247 56.60841 56.71295  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 57.53900  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 57.68453  
## BLK:AftLow 49.35000  
## BRN:AftHigh 56.08405  
## BRN:AftLow 48.75000  
## WHT:AftHigh 58.59587  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.46467  
## WT/BLK:AftLow 56.70000  
## WT/BR:AftHigh 56.93771  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.34159 a  
## BLK:AftHigh 57.40161 ab  
## BL/BR:AftHigh 57.37013 ab  
## WT/BR:AftHigh 56.79310 abc  
## WT/BLK:AftLow 56.06667 abc  
## BRN:AftHigh 55.94957 abc  
## WT/BLK:AftHigh 55.78080 abc  
## BL/BR:AftLow 54.80000 bc  
## WT/BR:AftLow 54.36667 c  
## BLK:AftLow 49.30000 d  
## BRN:AftLow 48.53333 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT43 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 189.705 37.941 50.111 6.363e-12 \*\*\*  
## THIregime 1 251.483 251.483 332.147 1.460e-15 \*\*\*  
## Colour:THIregime 5 83.294 16.659 22.002 3.011e-08 \*\*\*  
## Residuals 24 18.171 0.757   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7571423   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.47045 0.8097134 6 56.3 58.19144  
## BLK 53.42481 3.6641747 6 50.1 58.11874  
## BRN 53.07239 4.2492613 6 49.1 57.24610  
## WHT 52.59858 5.4928383 6 46.1 57.79195  
## WT/BLK 58.00288 1.5716434 6 56.1 60.52866  
## WT/BR 57.25577 2.4104430 6 54.7 59.78817  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.553309   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 58.00288 a  
## BL/BR 57.47045 a  
## WT/BR 57.25577 a  
## BLK 53.42481 b  
## BRN 53.07239 b  
## WHT 52.59858 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7571423   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.94718 1.261366 18 55.56562 60.52866  
## AftLow 52.66111 3.941654 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5986263   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.94718 a  
## AftLow 52.66111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7571423 24 55.30415 1.573371 2.561676  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.04089 0.1812859 3 57.83966 58.19144 57.96562 58.09157  
## BL/BR:AftLow 56.90000 0.7937254 3 56.30000 57.80000 56.45000 56.60000  
## BLK:AftHigh 56.68295 1.3060104 3 55.56562 58.11874 55.96505 56.36448  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 56.94479 0.3798305 3 56.51813 57.24610 56.79413 57.07013  
## BRN:AftLow 49.20000 0.1000000 3 49.10000 49.30000 49.15000 49.20000  
## WHT:AftHigh 57.49717 0.2825553 3 57.22868 57.79195 57.34977 57.47087  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.10575 1.2985157 3 57.98485 60.52866 58.39430 58.80375  
## WT/BLK:AftLow 56.90000 0.9165151 3 56.10000 57.90000 56.40000 56.70000  
## WT/BR:AftHigh 59.41153 0.6508416 3 58.66001 59.78817 59.22322 59.78643  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 58.14151  
## BL/BR:AftLow 57.20000  
## BLK:AftHigh 57.24161  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.15812  
## BRN:AftLow 49.25000  
## WHT:AftHigh 57.63141  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.66621  
## WT/BLK:AftLow 57.30000  
## WT/BR:AftHigh 59.78730  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 59.41153 a  
## WT/BLK:AftHigh 59.10575 ab  
## BL/BR:AftHigh 58.04089 ab  
## WHT:AftHigh 57.49717 abc  
## BRN:AftHigh 56.94479 abc  
## BL/BR:AftLow 56.90000 abc  
## WT/BLK:AftLow 56.90000 abc  
## BLK:AftHigh 56.68295 bc  
## WT/BR:AftLow 55.10000 c  
## BLK:AftLow 50.16667 d  
## BRN:AftLow 49.20000 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT44 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 90.205 18.041 9.699 3.639e-05 \*\*\*  
## THIregime 1 101.128 101.128 54.367 1.296e-07 \*\*\*  
## Colour:THIregime 5 108.609 21.722 11.678 8.466e-06 \*\*\*  
## Residuals 24 44.642 1.860   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.86009   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.53603 1.3551516 6 54.80000 58.46026  
## BLK 54.04121 2.9550344 6 49.40000 57.29576  
## BRN 53.50535 2.5624974 6 50.10000 55.28598  
## WHT 52.80999 5.7212415 6 46.10000 58.34029  
## WT/BLK 54.64453 0.9392057 6 53.21086 55.65013  
## WT/BR 55.95247 0.3550882 6 55.30000 56.36013  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.434648   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.53603 a  
## WT/BR 55.95247 ab  
## WT/BLK 54.64453 bc  
## BLK 54.04121 bc  
## BRN 53.50535 c  
## WHT 52.80999 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.86009   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.42430 1.429525 18 53.21086 58.46026  
## AftLow 53.07222 3.503915 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9382835   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.42430 a  
## AftLow 53.07222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.86009 24 54.74826 2.491132 4.015156  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.13872 0.2793378 3 57.95581 58.46026 57.97796 58.00010  
## BL/BR:AftLow 56.93333 1.8502252 3 54.80000 58.10000 56.35000 57.90000  
## BLK:AftHigh 56.41575 0.9496818 3 55.40910 57.29576 55.97574 56.54238  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 55.17737 0.1252825 3 55.04031 55.28598 55.12307 55.20583  
## BRN:AftLow 51.83333 2.8307832 3 50.10000 55.10000 50.20000 50.30000  
## WHT:AftHigh 57.91997 0.3682883 3 57.65381 58.34029 57.70981 57.76582  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 54.75573 1.3434433 3 53.21086 55.65013 54.30853 55.40620  
## WT/BLK:AftLow 54.53333 0.6027714 3 53.90000 55.10000 54.25000 54.60000  
## WT/BR:AftHigh 56.13827 0.1957516 3 55.98988 56.36013 56.02734 56.06480  
## WT/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 58.23018  
## BL/BR:AftLow 58.00000  
## BLK:AftHigh 56.91907  
## BLK:AftLow 52.80000  
## BRN:AftHigh 55.24591  
## BRN:AftLow 52.70000  
## WHT:AftHigh 58.05305  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 55.52816  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 56.21246  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.13872 a  
## WHT:AftHigh 57.91997 a  
## BL/BR:AftLow 56.93333 a  
## BLK:AftHigh 56.41575 a  
## WT/BR:AftHigh 56.13827 a  
## WT/BR:AftLow 55.76667 ab  
## BRN:AftHigh 55.17737 abc  
## WT/BLK:AftHigh 54.75573 abc  
## WT/BLK:AftLow 54.53333 abc  
## BRN:AftLow 51.83333 bc  
## BLK:AftLow 51.66667 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT45 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 45.297 9.059 8.2785 0.0001165 \*\*\*  
## THIregime 1 160.297 160.297 146.4813 1.047e-11 \*\*\*  
## Colour:THIregime 5 106.839 21.368 19.5261 9.345e-08 \*\*\*  
## Residuals 24 26.264 1.094   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.094319   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.87660 1.961412 6 54.80000 59.18126  
## BLK 56.09664 1.970748 6 53.30000 58.34983  
## BRN 55.29838 2.651677 6 52.40000 58.10856  
## WHT 53.23333 6.180002 6 46.10000 59.15919  
## WT/BLK 55.73220 1.067556 6 53.94264 57.15725  
## WT/BR 55.75704 2.141393 6 52.70000 57.57541  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.867417   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.87660 a  
## BLK 56.09664 a  
## WT/BR 55.75704 a  
## WT/BLK 55.73220 a  
## BRN 55.29838 a  
## WHT 53.23333 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.094319   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.60918 1.327572 18 53.94264 59.18126  
## AftLow 53.38889 2.954934 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7196795   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.60918 a  
## AftLow 53.38889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.094319 24 55.49903 1.884893 3.079693  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.48653 1.14840962 3 57.16098 59.18126 58.13917 59.11737  
## BL/BR:AftLow 55.26667 0.72341781 3 54.80000 56.10000 54.85000 54.90000  
## BLK:AftHigh 57.69329 0.99085880 3 56.55353 58.34983 57.36502 58.17651  
## BLK:AftLow 54.50000 1.03923048 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 57.69676 0.36303589 3 57.42295 58.10856 57.49086 57.55877  
## BRN:AftLow 52.90000 0.43588989 3 52.40000 53.20000 52.75000 53.10000  
## WHT:AftHigh 58.76666 0.51747372 3 58.18024 59.15919 58.57040 58.96056  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 55.53107 1.60763496 3 53.94264 57.15725 54.71798 55.49332  
## WT/BLK:AftLow 55.93333 0.37859389 3 55.50000 56.20000 55.80000 56.10000  
## WT/BR:AftHigh 57.48074 0.08439682 3 57.41337 57.57541 57.43340 57.45344  
## WT/BR:AftLow 54.03333 1.59478316 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 59.14931  
## BL/BR:AftLow 55.50000  
## BLK:AftHigh 58.26317  
## BLK:AftLow 55.10000  
## BRN:AftHigh 57.83367  
## BRN:AftLow 53.15000  
## WHT:AftHigh 59.05987  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 56.32528  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.51442  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.76666 a  
## BL/BR:AftHigh 58.48653 ab  
## BRN:AftHigh 57.69676 abc  
## BLK:AftHigh 57.69329 abc  
## WT/BR:AftHigh 57.48074 abcd  
## WT/BLK:AftLow 55.93333 abcde  
## WT/BLK:AftHigh 55.53107 bcde  
## BL/BR:AftLow 55.26667 cde  
## BLK:AftLow 54.50000 de  
## WT/BR:AftLow 54.03333 e  
## BRN:AftLow 52.90000 e  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT46 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 53.710 10.742 5.2722 0.002089 \*\*   
## THIregime 1 93.531 93.531 45.9052 5.232e-07 \*\*\*  
## Colour:THIregime 5 140.051 28.010 13.7474 2.174e-06 \*\*\*  
## Residuals 24 48.900 2.037   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.037492   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.46252 1.006969 6 54.60000 57.42980  
## BLK 54.17427 3.247381 6 50.20000 57.69232  
## BRN 55.40612 2.299425 6 51.20000 57.66426  
## WHT 52.74373 5.668073 6 46.10000 58.67308  
## WT/BLK 54.02584 2.020828 6 52.46166 57.70000  
## WT/BR 55.59203 1.854423 6 53.20000 58.01099  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.548104   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.46252 a  
## WT/BR 55.59203 a  
## BRN 55.40612 a  
## BLK 54.17427 ab  
## WT/BLK 54.02584 ab  
## WHT 52.74373 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.037492   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.34594 1.937709 18 52.46166 58.67308  
## AftLow 53.12222 3.243374 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.982008   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.34594 a  
## AftLow 53.12222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.037492 24 54.73408 2.607895 4.202265  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.05837 0.3263579 3 56.81749 57.42980 56.87266 56.92784  
## BL/BR:AftLow 55.86667 1.1676187 3 54.60000 56.90000 55.35000 56.10000  
## BLK:AftHigh 56.74854 1.1845432 3 55.41927 57.69232 56.27664 57.13401  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 57.01224 0.6399572 3 56.38507 57.66426 56.68622 56.98737  
## BRN:AftLow 53.80000 2.2516660 3 51.20000 55.10000 53.15000 55.10000  
## WHT:AftHigh 57.78746 0.7999889 3 57.11717 58.67308 57.34465 57.57214  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 52.55168 0.1411003 3 52.46166 52.71429 52.47037 52.47908  
## WT/BLK:AftLow 55.50000 1.9157244 3 54.20000 57.70000 54.40000 54.60000  
## WT/BR:AftHigh 56.91738 1.5697605 3 55.11872 58.01099 56.37058 57.62245  
## WT/BR:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 57.17882  
## BL/BR:AftLow 56.50000  
## BLK:AftHigh 57.41317  
## BLK:AftLow 52.30000  
## BRN:AftHigh 57.32582  
## BRN:AftLow 55.10000  
## WHT:AftHigh 58.12261  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 52.59669  
## WT/BLK:AftLow 56.15000  
## WT/BR:AftHigh 57.81672  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 57.78746 a  
## BL/BR:AftHigh 57.05837 a  
## BRN:AftHigh 57.01224 a  
## WT/BR:AftHigh 56.91738 a  
## BLK:AftHigh 56.74854 ab  
## BL/BR:AftLow 55.86667 ab  
## WT/BLK:AftLow 55.50000 abc  
## WT/BR:AftLow 54.26667 abc  
## BRN:AftLow 53.80000 abc  
## WT/BLK:AftHigh 52.55168 bc  
## BLK:AftLow 51.60000 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT47 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 61.269 12.254 9.6415 3.806e-05 \*\*\*  
## THIregime 1 264.595 264.595 208.1876 2.521e-13 \*\*\*  
## Colour:THIregime 5 83.453 16.691 13.1325 3.206e-06 \*\*\*  
## Residuals 24 30.503 1.271   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.270944   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.78583 1.510788 6 54.9 58.69921  
## BLK 54.61145 3.138129 6 49.2 58.09549  
## BRN 53.74205 4.162722 6 49.3 57.88903  
## WHT 53.23682 6.184000 6 46.1 59.35585  
## WT/BLK 56.32823 1.524883 6 53.8 57.81062  
## WT/BR 55.66199 2.384211 6 53.2 58.04584  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.012484   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.78583 a  
## WT/BLK 56.32823 ab  
## WT/BR 55.66199 abc  
## BLK 54.61145 bcd  
## BRN 53.74205 cd  
## WHT 53.23682 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.270944   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.77212 0.794831 18 55.94923 59.35585  
## AftLow 52.35000 3.110561 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7755866   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.77212 a  
## AftLow 52.35000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.270944 24 55.06106 2.047475 3.318934  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.07166 0.6900194 3 57.33272 58.69921 57.75788 58.18304  
## BL/BR:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 56.92289 1.0868737 3 55.94923 58.09549 56.33659 56.72395  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 57.51743 0.4655586 3 56.99521 57.88903 57.33164 57.66807  
## BRN:AftLow 49.96667 0.5859465 3 49.30000 50.40000 49.75000 50.20000  
## WHT:AftHigh 58.77364 0.5248464 3 58.33680 59.35585 58.48254 58.62827  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.52314 0.4318211 3 57.02657 57.81062 57.37939 57.73222  
## WT/BLK:AftLow 55.13333 1.1590226 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 57.82398 0.3443317 3 57.42731 58.04584 57.71305 57.99879  
## WT/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 58.44113  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.40972  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.77855  
## BRN:AftLow 50.30000  
## WHT:AftHigh 58.99206  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.77142  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 58.02231  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.77364 a  
## BL/BR:AftHigh 58.07166 ab  
## WT/BR:AftHigh 57.82398 ab  
## WT/BLK:AftHigh 57.52314 ab  
## BRN:AftHigh 57.51743 ab  
## BLK:AftHigh 56.92289 ab  
## BL/BR:AftLow 55.50000 abc  
## WT/BLK:AftLow 55.13333 bc  
## WT/BR:AftLow 53.50000 c  
## BLK:AftLow 52.30000 cd  
## BRN:AftLow 49.96667 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT48 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 111.79 22.36 17.432 2.666e-07 \*\*\*  
## THIregime 1 351.98 351.98 274.441 1.225e-14 \*\*\*  
## Colour:THIregime 5 66.85 13.37 10.425 2.088e-05 \*\*\*  
## Residuals 24 30.78 1.28   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.28252   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.77521 1.535279 6 54.7 58.28105  
## BLK 53.16743 4.987882 6 48.3 58.18201  
## BRN 54.48896 4.644000 6 48.5 58.45877  
## WHT 52.62682 5.524895 6 46.1 57.89276  
## WT/BLK 57.36398 2.255211 6 54.9 59.58780  
## WT/BR 55.80529 2.347117 6 53.6 58.13731  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.021628   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.36398 a  
## BL/BR 56.77521 a  
## WT/BR 55.80529 ab  
## BRN 54.48896 bc  
## BLK 53.16743 c  
## WHT 52.62682 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.28252   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.16478 0.6634998 18 57.17358 59.5878  
## AftLow 51.91111 3.4465480 18 46.10000 56.3000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7791106   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.16478 a  
## AftLow 51.91111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.28252 24 55.03795 2.057642 3.334015  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.11708 0.27835824 3 57.79569 58.28105 58.03510 58.27452  
## BL/BR:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 57.70153 0.43588942 3 57.33148 58.18201 57.46128 57.59109  
## BLK:AftLow 48.63333 0.57735027 3 48.30000 49.30000 48.30000 48.30000  
## BRN:AftHigh 58.31125 0.25249610 3 58.01970 58.45877 58.23749 58.45528  
## BRN:AftLow 50.66667 3.16596483 3 48.50000 54.30000 48.85000 49.20000  
## WHT:AftHigh 57.55364 0.36133281 3 57.17358 57.89276 57.38408 57.59457  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.36130 0.30627425 3 59.01283 59.58780 59.24805 59.48326  
## WT/BLK:AftLow 55.36667 0.80829038 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 57.94391 0.21902003 3 57.70608 58.13731 57.84721 57.98834  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 58.27778  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.88655  
## BLK:AftLow 48.80000  
## BRN:AftHigh 58.45703  
## BRN:AftLow 51.75000  
## WHT:AftHigh 57.74366  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.53553  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 58.06282  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BRN:AftHigh 58.31125 ab  
## BL/BR:AftHigh 58.11708 ab  
## WT/BR:AftHigh 57.94391 ab  
## BLK:AftHigh 57.70153 ab  
## WHT:AftHigh 57.55364 ab  
## BL/BR:AftLow 55.43333 bc  
## WT/BLK:AftLow 55.36667 bc  
## WT/BR:AftLow 53.66667 cd  
## BRN:AftLow 50.66667 de  
## BLK:AftLow 48.63333 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT49 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 102.867 20.573 19.848 8.015e-08 \*\*\*  
## THIregime 1 282.404 282.404 272.449 1.328e-14 \*\*\*  
## Colour:THIregime 5 91.395 18.279 17.635 2.399e-07 \*\*\*  
## Residuals 24 24.877 1.037   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.036538   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.57698 1.966144 6 54.6 58.65441  
## BLK 55.08538 2.702480 6 51.3 58.30138  
## BRN 53.13971 4.753635 6 48.3 58.45877  
## WHT 53.03577 5.960226 6 46.1 58.50506  
## WT/BLK 57.34521 1.304083 6 56.1 59.41357  
## WT/BR 56.52181 2.957016 6 53.7 59.66621  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.817447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.34521 a  
## BL/BR 56.57698 ab  
## WT/BR 56.52181 ab  
## BLK 55.08538 b  
## BRN 53.13971 c  
## WHT 53.03577 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.036538   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.08496 1.041872 18 55.9681 59.66621  
## AftLow 52.48333 3.435841 18 46.1000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7004218   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.08496 a  
## AftLow 52.48333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.036538 24 55.28414 1.841586 2.997285  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.35396 0.4016671 3 57.89774 58.65441 58.20373 58.50973  
## BL/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 57.30410 1.2029490 3 55.96810 58.30138 56.80545 57.64281  
## BLK:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## BRN:AftHigh 57.41276 0.9552402 3 56.58663 58.45877 56.88976 57.19288  
## BRN:AftLow 48.86667 0.8962886 3 48.30000 49.90000 48.35000 48.40000  
## WHT:AftHigh 58.37155 0.1981774 3 58.14384 58.50506 58.30479 58.46574  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.85708 1.6438371 3 56.13798 59.41357 57.07884 58.01970  
## WT/BLK:AftLow 56.83333 0.8736895 3 56.10000 57.80000 56.35000 56.60000  
## WT/BR:AftHigh 59.21029 0.4034107 3 58.89958 59.66621 58.98234 59.06510  
## WT/BR:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 58.58207  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 57.97209  
## BLK:AftLow 53.65000  
## BRN:AftHigh 57.82583  
## BRN:AftLow 49.15000  
## WHT:AftHigh 58.48540  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.71663  
## WT/BLK:AftLow 57.20000  
## WT/BR:AftHigh 59.36565  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 59.21029 a  
## WHT:AftHigh 58.37155 a  
## BL/BR:AftHigh 58.35396 a  
## WT/BLK:AftHigh 57.85708 a  
## BRN:AftHigh 57.41276 ab  
## BLK:AftHigh 57.30410 ab  
## WT/BLK:AftLow 56.83333 ab  
## BL/BR:AftLow 54.80000 bc  
## WT/BR:AftLow 53.83333 c  
## BLK:AftLow 52.86667 c  
## BRN:AftLow 48.86667 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT50 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 109.511 21.902 8.0080 0.0001473 \*\*\*  
## THIregime 1 203.240 203.240 74.3095 8.208e-09 \*\*\*  
## Colour:THIregime 5 88.942 17.788 6.5039 0.0005915 \*\*\*  
## Residuals 24 65.641 2.735   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.735051   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.09137 1.589003 6 53.9 57.97490  
## BLK 53.21548 3.878273 6 48.3 57.06055  
## BRN 55.07725 2.161754 6 52.4 57.45780  
## WHT 52.76982 5.711633 6 46.1 59.03570  
## WT/BLK 57.32627 1.593007 6 54.8 59.37872  
## WT/BR 55.74271 3.763665 6 51.4 59.64007  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.952242   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.32627 a  
## BL/BR 57.09137 a  
## WT/BR 55.74271 ab  
## BRN 55.07725 abc  
## BLK 53.21548 bc  
## WHT 52.76982 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.735051   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.57986 1.211181 18 55.45572 59.64007  
## AftLow 52.82778 3.750734 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.137758   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.57986 a  
## AftLow 52.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.735051 24 55.20382 2.995806 4.868758  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.84941 0.1585393 3 57.67123 57.97490 57.78666 57.90209  
## BL/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 56.13096 0.8320948 3 55.45572 57.06055 55.66617 55.87663  
## BLK:AftLow 50.30000 3.3778692 3 48.30000 54.20000 48.35000 48.40000  
## BRN:AftHigh 56.98784 0.4105820 3 56.69869 57.45780 56.75287 56.80704  
## BRN:AftLow 53.16667 0.7505553 3 52.40000 53.90000 52.80000 53.20000  
## WHT:AftHigh 57.83965 1.0428491 3 57.12066 59.03570 57.24162 57.36259  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.75254 1.5713232 3 56.24252 59.37872 56.93945 57.63639  
## WT/BLK:AftLow 56.90000 1.8248288 3 54.80000 58.10000 56.30000 57.80000  
## WT/BR:AftHigh 58.91874 1.1865635 3 57.54927 59.64007 58.55808 59.56689  
## WT/BR:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 57.93849  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 56.46859  
## BLK:AftLow 51.30000  
## BRN:AftHigh 57.13242  
## BRN:AftLow 53.55000  
## WHT:AftHigh 58.19914  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 58.50755  
## WT/BLK:AftLow 57.95000  
## WT/BR:AftHigh 59.60348  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.91874 a  
## BL/BR:AftHigh 57.84941 ab  
## WHT:AftHigh 57.83965 ab  
## WT/BLK:AftHigh 57.75254 ab  
## BRN:AftHigh 56.98784 abc  
## WT/BLK:AftLow 56.90000 abc  
## BL/BR:AftLow 56.33333 abc  
## BLK:AftHigh 56.13096 abc  
## BRN:AftLow 53.16667 bcd  
## WT/BR:AftLow 52.56667 cde  
## BLK:AftLow 50.30000 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT51 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 97.823 19.565 19.146 1.123e-07 \*\*\*  
## THIregime 1 231.768 231.768 226.812 9.949e-14 \*\*\*  
## Colour:THIregime 5 63.442 12.688 12.417 5.119e-06 \*\*\*  
## Residuals 24 24.524 1.022   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.021851   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.24559 2.764894 6 53.1 59.55876  
## BLK 55.74449 1.670542 6 54.2 57.97004  
## BRN 54.12656 3.950720 6 49.2 58.50581  
## WHT 52.74864 5.664195 6 46.1 58.20090  
## WT/BLK 57.52541 1.925783 6 54.8 59.37872  
## WT/BR 56.96657 1.453104 6 55.2 58.81682  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.804525   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.52541 a  
## WT/BR 56.96657 a  
## BL/BR 56.24559 a  
## BLK 55.74449 ab  
## BRN 54.12656 bc  
## WHT 52.74864 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.021851   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.09686 0.931734 18 56.80098 59.55876  
## AftLow 53.02222 3.171853 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6954419   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.09686 a  
## AftLow 53.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.021851 24 55.55954 1.819429 2.975975  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.62450 1.22085851 3 57.24312 59.55876 58.15738 59.07163  
## BL/BR:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 57.22231 0.64929500 3 56.80098 57.97004 56.84844 56.89590  
## BLK:AftLow 54.26667 0.05773503 3 54.20000 54.30000 54.25000 54.30000  
## BRN:AftHigh 57.51978 0.86903837 3 56.86540 58.50581 57.02677 57.18813  
## BRN:AftLow 50.73333 1.92959409 3 49.20000 52.90000 49.65000 50.10000  
## WHT:AftHigh 57.79728 0.61760143 3 57.08631 58.20090 57.59547 58.10464  
## WHT:AftLow 47.70000 1.83303028 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.18416 0.27192869 3 58.87344 59.37872 59.08688 59.30032  
## WT/BLK:AftLow 55.86667 0.97125349 3 54.80000 56.70000 55.45000 56.10000  
## WT/BR:AftHigh 58.23314 0.50615833 3 57.91516 58.81682 57.94130 57.96743  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 59.31520  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 57.43297  
## BLK:AftLow 54.30000  
## BRN:AftHigh 57.84697  
## BRN:AftLow 51.50000  
## WHT:AftHigh 58.15277  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.33952  
## WT/BLK:AftLow 56.40000  
## WT/BR:AftHigh 58.39212  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.18416 a  
## BL/BR:AftHigh 58.62450 ab  
## WT/BR:AftHigh 58.23314 ab  
## WHT:AftHigh 57.79728 ab  
## BRN:AftHigh 57.51978 ab  
## BLK:AftHigh 57.22231 abc  
## WT/BLK:AftLow 55.86667 bcd  
## WT/BR:AftLow 55.70000 bcd  
## BLK:AftLow 54.26667 cd  
## BL/BR:AftLow 53.86667 d  
## BRN:AftLow 50.73333 e  
## WHT:AftLow 47.70000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT52 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 112.380 22.476 26.419 5.031e-09 \*\*\*  
## THIregime 1 181.919 181.919 213.833 1.887e-13 \*\*\*  
## Colour:THIregime 5 122.309 24.462 28.753 2.155e-09 \*\*\*  
## Residuals 24 20.418 0.851   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8507499   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.31850 0.6018727 6 56.45741 58.10000  
## BLK 52.85470 4.8001003 6 48.40000 58.08573  
## BRN 55.37931 1.6776653 6 53.20000 57.22520  
## WHT 52.67693 5.5802831 6 46.10000 58.14291  
## WT/BLK 56.42539 1.3686798 6 54.60000 57.81062  
## WT/BR 56.13291 2.3871575 6 52.80000 58.71663  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.646532   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.31850 a  
## WT/BLK 56.42539 ab  
## WT/BR 56.13291 ab  
## BRN 55.37931 b  
## BLK 52.85470 c  
## WHT 52.67693 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8507499   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.37924 0.7096926 18 55.7538 58.71663  
## AftLow 52.88333 3.8082341 18 46.1000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6345532   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.37924 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8507499 24 55.13129 1.673026 2.715416  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.97032 0.5278485 3 56.45741 57.51193 56.69952 56.94163  
## BL/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 57.17606 1.2476142 3 55.75380 58.08573 56.72123 57.68866  
## BLK:AftLow 48.53333 0.1527525 3 48.40000 48.70000 48.45000 48.50000  
## BRN:AftHigh 56.85862 0.3183230 3 56.65197 57.22520 56.67533 56.69869  
## BRN:AftLow 53.90000 0.6082763 3 53.20000 54.30000 53.70000 54.20000  
## WHT:AftHigh 57.65386 0.4235266 3 57.40879 58.14291 57.40934 57.40988  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.58412 0.2682288 3 57.28792 57.81062 57.47087 57.65381  
## WT/BLK:AftLow 55.26667 0.7637626 3 54.60000 56.10000 54.85000 55.10000  
## WT/BR:AftHigh 58.03248 0.7468929 3 57.23565 58.71663 57.69040 58.14515  
## WT/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 57.22678  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 57.88719  
## BLK:AftLow 48.60000  
## BRN:AftHigh 56.96195  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.77640  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.73222  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 58.43089  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.03248 a  
## BL/BR:AftLow 57.66667 ab  
## WHT:AftHigh 57.65386 ab  
## WT/BLK:AftHigh 57.58412 ab  
## BLK:AftHigh 57.17606 ab  
## BL/BR:AftHigh 56.97032 ab  
## BRN:AftHigh 56.85862 abc  
## WT/BLK:AftLow 55.26667 bcd  
## WT/BR:AftLow 54.23333 cd  
## BRN:AftLow 53.90000 d  
## BLK:AftLow 48.53333 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT53 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 111.73 22.35 22.148 2.826e-08 \*\*\*  
## THIregime 1 410.23 410.23 406.574 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 60.35 12.07 11.963 6.957e-06 \*\*\*  
## Residuals 24 24.22 1.01   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.008979   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.53709 2.378240 6 54.8 59.93627  
## BLK 53.49088 4.304024 6 49.3 57.61254  
## BRN 53.58016 4.574007 6 48.1 58.11901  
## WHT 53.31883 6.270828 6 46.1 59.45887  
## WT/BLK 57.05230 2.536099 6 53.8 59.90142  
## WT/BR 56.00809 2.846209 6 51.6 58.46922  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.793124   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.53709 a  
## WT/BLK 57.05230 a  
## WT/BR 56.00809 a  
## BRN 53.58016 b  
## BLK 53.49088 b  
## WHT 53.31883 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.008979   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.54023 0.8898655 18 57.14156 59.93627  
## AftLow 51.78889 3.2795066 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.691048   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.54023 a  
## AftLow 51.78889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.008979 24 55.16456 1.820879 2.957172  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.60750 0.3699044 3 59.20698 59.93627 59.44312 59.67927  
## BL/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 57.41510 0.2445365 3 57.14156 57.61254 57.31638 57.49119  
## BLK:AftLow 49.56667 0.2309401 3 49.30000 49.70000 49.50000 49.70000  
## BRN:AftHigh 57.69365 0.3716628 3 57.43166 58.11901 57.48096 57.53026  
## BRN:AftLow 49.46667 1.1846237 3 48.10000 50.20000 49.10000 50.10000  
## WHT:AftHigh 58.93765 0.4843808 3 58.50133 59.45887 58.67704 58.85275  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.27128 0.5519605 3 58.87344 59.90142 58.95620 59.03897  
## WT/BLK:AftLow 54.83333 1.0016653 3 53.80000 55.80000 54.35000 54.90000  
## WT/BR:AftHigh 58.31619 0.2457097 3 58.03277 58.46922 58.23967 58.44657  
## WT/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 59.80777  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.55187  
## BLK:AftLow 49.70000  
## BRN:AftHigh 57.82464  
## BRN:AftLow 50.15000  
## WHT:AftHigh 59.15581  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.47019  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 58.45790  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.60750 a  
## WT/BLK:AftHigh 59.27128 a  
## WHT:AftHigh 58.93765 a  
## WT/BR:AftHigh 58.31619 ab  
## BRN:AftHigh 57.69365 abc  
## BLK:AftHigh 57.41510 abc  
## BL/BR:AftLow 55.46667 bcd  
## WT/BLK:AftLow 54.83333 cd  
## WT/BR:AftLow 53.70000 d  
## BLK:AftLow 49.56667 e  
## BRN:AftLow 49.46667 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT54 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 57.573 11.515 5.6806 0.001356 \*\*   
## THIregime 1 202.303 202.303 99.8049 5.010e-10 \*\*\*  
## Colour:THIregime 5 87.096 17.419 8.5936 8.916e-05 \*\*\*  
## Residuals 24 48.648 2.027   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.026981   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.45499 2.537982 6 53.1 58.45528  
## BLK 55.89502 2.350797 6 52.4 57.70869  
## BRN 53.91686 3.981632 6 48.4 58.07720  
## WHT 53.10795 6.068864 6 46.1 59.20884  
## WT/BLK 56.08431 1.279609 6 53.8 57.18338  
## WT/BR 56.69752 1.148766 6 55.2 57.88903  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.541523   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.69752 a  
## WT/BLK 56.08431 ab  
## BLK 55.89502 ab  
## BL/BR 55.45499 abc  
## BRN 53.91686 bc  
## WHT 53.10795 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.026981   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.56333 0.8190714 18 55.54123 59.20884  
## AftLow 52.82222 3.2711854 18 46.10000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9794717   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.56333 a  
## AftLow 52.82222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.026981 24 55.19277 2.579542 4.191411  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.74331 0.6170812 3 57.36259 58.45528 57.38733 57.41206  
## BL/BR:AftLow 53.16667 0.1154701 3 53.10000 53.30000 53.10000 53.10000  
## BLK:AftHigh 57.35670 0.3204952 3 57.08174 57.70869 57.18071 57.27967  
## BLK:AftLow 54.43333 2.7024680 3 52.40000 57.50000 52.90000 53.40000  
## BRN:AftHigh 57.03372 1.3262713 3 55.54123 58.07720 56.51199 57.48274  
## BRN:AftLow 50.80000 2.9546573 3 48.40000 54.10000 49.15000 49.90000  
## WHT:AftHigh 58.51589 0.9900255 3 57.38201 59.20884 58.16942 58.95683  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.03528 0.1926441 3 56.81749 57.18338 56.96123 57.10498  
## WT/BLK:AftLow 55.13333 1.1590226 3 53.80000 55.90000 54.75000 55.70000  
## WT/BR:AftHigh 57.69505 0.3224980 3 57.32277 57.88903 57.59806 57.87334  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.93367  
## BL/BR:AftLow 53.20000  
## BLK:AftHigh 57.49418  
## BLK:AftLow 55.45000  
## BRN:AftHigh 57.77997  
## BRN:AftLow 52.00000  
## WHT:AftHigh 59.08283  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.14418  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 57.88118  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.51589 a  
## BL/BR:AftHigh 57.74331 a  
## WT/BR:AftHigh 57.69505 a  
## BLK:AftHigh 57.35670 ab  
## WT/BLK:AftHigh 57.03528 ab  
## BRN:AftHigh 57.03372 ab  
## WT/BR:AftLow 55.70000 ab  
## WT/BLK:AftLow 55.13333 ab  
## BLK:AftLow 54.43333 abc  
## BL/BR:AftLow 53.16667 bc  
## BRN:AftLow 50.80000 cd  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT55 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 88.807 17.761 28.945 2.014e-09 \*\*\*  
## THIregime 1 285.207 285.207 464.798 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 100.578 20.116 32.782 5.661e-10 \*\*\*  
## Residuals 24 14.727 0.614   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.613616   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.48691 1.580663 6 54.6 58.01970  
## BLK 52.85153 4.634695 6 48.2 57.34280  
## BRN 53.87367 4.221969 6 49.6 58.14800  
## WHT 52.92891 5.852962 6 46.1 58.58347  
## WT/BLK 56.32003 1.242314 6 54.9 57.89774  
## WT/BR 56.02703 1.580519 6 53.6 57.38201  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.398355   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.48691 a  
## WT/BLK 56.32003 a  
## WT/BR 56.02703 a  
## BRN 53.87367 b  
## WHT 52.92891 b  
## BLK 52.85153 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.613616   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.56270 0.5185914 18 56.53001 58.58347  
## AftLow 51.93333 3.4260250 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.538909   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.56270 a  
## AftLow 51.93333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.613616 24 54.74801 1.430803 2.30613  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.84049 0.2153853 3 57.60154 58.01970 57.75088 57.90023  
## BL/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## BLK:AftHigh 57.06973 0.2411018 3 56.88627 57.34280 56.93319 56.98011  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 57.71400 0.4180137 3 57.31406 58.14800 57.49700 57.67995  
## BRN:AftLow 50.03333 0.3785939 3 49.60000 50.30000 49.90000 50.20000  
## WHT:AftHigh 58.15782 0.5083069 3 57.59501 58.58347 57.94500 58.29499  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 57.27340 0.6915951 3 56.53001 57.89774 56.96123 57.39246  
## WT/BLK:AftLow 55.36667 0.8082904 3 54.90000 56.30000 54.90000 54.90000  
## WT/BR:AftHigh 57.32073 0.1038712 3 57.20080 57.38201 57.29010 57.37939  
## WT/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 57.95996  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 57.16146  
## BLK:AftLow 48.85000  
## BRN:AftHigh 57.91397  
## BRN:AftLow 50.25000  
## WHT:AftHigh 58.43923  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.64510  
## WT/BLK:AftLow 55.60000  
## WT/BR:AftHigh 57.38070  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.15782 a  
## BL/BR:AftHigh 57.84049 a  
## BRN:AftHigh 57.71400 a  
## WT/BR:AftHigh 57.32073 ab  
## WT/BLK:AftHigh 57.27340 ab  
## BLK:AftHigh 57.06973 ab  
## WT/BLK:AftLow 55.36667 bc  
## BL/BR:AftLow 55.13333 bc  
## WT/BR:AftLow 54.73333 c  
## BRN:AftLow 50.03333 d  
## BLK:AftLow 48.63333 de  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT56 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 98.79 19.76 14.2425 1.604e-06 \*\*\*  
## THIregime 1 336.83 336.83 242.8149 4.722e-14 \*\*\*  
## Colour:THIregime 5 54.64 10.93 7.8778 0.0001652 \*\*\*  
## Residuals 24 33.29 1.39   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.387197   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.26780 2.655515 6 52.5 58.29267  
## BLK 54.11381 3.584479 6 50.1 57.51442  
## BRN 53.20741 4.419843 6 49.2 58.07720  
## WHT 52.72385 5.630210 6 46.1 58.19611  
## WT/BLK 57.50611 1.910088 6 53.9 59.16964  
## WT/BR 56.06734 3.189057 6 51.6 59.60522  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.102511   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.50611 a  
## WT/BR 56.06734 ab  
## BL/BR 55.26780 bc  
## BLK 54.11381 bcd  
## BRN 53.20741 cd  
## WHT 52.72385 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.387197   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.87322 0.8559453 18 56.46467 59.60522  
## AftLow 51.75556 3.2016948 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8102818   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.87322 a  
## AftLow 51.75556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.387197 24 54.81439 2.148694 3.467404  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.63559 0.5744827 3 57.22818 58.29267 57.30705 57.38593  
## BL/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## BLK:AftHigh 57.36095 0.2148310 3 57.11543 57.51442 57.28421 57.45298  
## BLK:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 57.21482 0.8121011 3 56.46467 58.07720 56.78363 57.10260  
## BRN:AftLow 49.20000 0.0000000 3 49.20000 49.20000 49.20000 49.20000  
## WHT:AftHigh 57.74771 0.4133051 3 57.38201 58.19611 57.52351 57.66501  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 58.67888 0.6569274 3 57.93258 59.16964 58.43350 58.93443  
## WT/BLK:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## WT/BR:AftHigh 58.60135 1.2916251 3 57.14418 59.60522 58.09941 59.05465  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 57.83930  
## BL/BR:AftLow 53.10000  
## BLK:AftHigh 57.48370  
## BLK:AftLow 51.25000  
## BRN:AftHigh 57.58990  
## BRN:AftLow 49.20000  
## WHT:AftHigh 57.93056  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 59.05203  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 59.32993  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 58.67888 a  
## WT/BR:AftHigh 58.60135 a  
## WHT:AftHigh 57.74771 a  
## BL/BR:AftHigh 57.63559 a  
## BLK:AftHigh 57.36095 a  
## BRN:AftHigh 57.21482 a  
## WT/BLK:AftLow 56.33333 ab  
## WT/BR:AftLow 53.53333 bc  
## BL/BR:AftLow 52.90000 bc  
## BLK:AftLow 50.86667 cd  
## BRN:AftLow 49.20000 d  
## WHT:AftLow 47.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT57 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 117.940 23.588 14.6253 1.275e-06 \*\*\*  
## THIregime 1 308.427 308.427 191.2342 6.288e-13 \*\*\*  
## Colour:THIregime 5 48.806 9.761 6.0522 0.0009264 \*\*\*  
## Residuals 24 38.708 1.613   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.612824   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.76416 2.614135 6 52.6 58.62454  
## BLK 53.67028 3.511685 6 49.1 56.59099  
## BRN 52.80750 4.757040 6 48.2 58.04821  
## WHT 52.22090 5.099475 6 46.1 57.30752  
## WT/BLK 57.08241 3.075543 6 53.8 60.73774  
## WT/BR 56.15017 1.389033 6 54.3 57.94130  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.267058   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.08241 a  
## WT/BR 56.15017 a  
## BL/BR 55.76416 ab  
## BLK 53.67028 bc  
## BRN 52.80750 c  
## WHT 52.22090 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.612824   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.54292 1.378313 18 55.7416 60.73774  
## AftLow 51.68889 3.191512 18 46.1000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8736964   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.54292 a  
## AftLow 51.68889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.612824 24 54.6159 2.325275 3.738772  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.09499 0.5124534 3 57.60154 58.62454 57.83022 58.05890  
## BL/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## BLK:AftHigh 56.37390 0.1946282 3 56.21501 56.59099 56.26535 56.31570  
## BLK:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 57.08166 1.1978113 3 55.74160 58.04821 56.59839 57.45518  
## BRN:AftLow 48.53333 0.5773503 3 48.20000 49.20000 48.20000 48.20000  
## WHT:AftHigh 56.74180 0.5796387 3 56.14918 57.30752 56.45894 56.76870  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 59.69815 1.6666703 3 57.77577 60.73774 59.17835 60.58093  
## WT/BLK:AftLow 54.46667 0.5859465 3 53.80000 54.90000 54.25000 54.70000  
## WT/BR:AftHigh 57.26701 0.6543778 3 56.63455 57.94130 56.92987 57.22520  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 58.34172  
## BL/BR:AftLow 53.85000  
## BLK:AftHigh 56.45334  
## BLK:AftLow 51.90000  
## BRN:AftHigh 57.75170  
## BRN:AftLow 48.70000  
## WHT:AftHigh 57.03811  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 60.65934  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 57.58325  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.69815 a  
## BL/BR:AftHigh 58.09499 ab  
## WT/BR:AftHigh 57.26701 ab  
## BRN:AftHigh 57.08166 abc  
## WHT:AftHigh 56.74180 abc  
## BLK:AftHigh 56.37390 abc  
## WT/BR:AftLow 55.03333 bc  
## WT/BLK:AftLow 54.46667 bcd  
## BL/BR:AftLow 53.43333 cd  
## BLK:AftLow 50.96667 de  
## BRN:AftLow 48.53333 e  
## WHT:AftLow 47.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT58 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 37.871 7.574 36.027 2.129e-10 \*\*\*  
## THIregime 1 121.326 121.326 577.084 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 36.246 7.249 34.480 3.360e-10 \*\*\*  
## Residuals 24 5.046 0.210   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2102401   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.35427 1.5353012 6 54.7 58.32751  
## BLK 55.61157 2.1236646 6 53.2 57.58063  
## BRN 54.60378 3.5235612 6 51.2 58.19393  
## WHT 55.18641 2.8608861 6 52.5 58.17651  
## WT/BLK 57.28165 0.3022136 6 56.9 57.80000  
## WT/BR 57.34380 2.2282135 6 54.6 59.76203  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8185155   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 57.34380 a  
## WT/BLK 57.28165 a  
## BL/BR 56.35427 b  
## BLK 55.61157 bc  
## WHT 55.18641 cd  
## BRN 54.60378 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2102401   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.89938 0.7695254 18 57.06017 59.76203  
## AftLow 54.22778 2.0160548 18 51.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3154458   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.89938 a  
## AftLow 54.22778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2102401 24 56.06358 0.8178561 1.349874  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.67521 0.57001017 3 57.27299 58.32751 57.34906 57.42513  
## BL/BR:AftLow 55.03333 0.57735027 3 54.70000 55.70000 54.70000 54.70000  
## BLK:AftHigh 57.52315 0.05048971 3 57.48600 57.58063 57.49440 57.50281  
## BLK:AftLow 53.70000 0.55677644 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 57.80756 0.41965611 3 57.36110 58.19393 57.61437 57.86764  
## BRN:AftLow 51.40000 0.26457513 3 51.20000 51.70000 51.25000 51.30000  
## WHT:AftHigh 57.77282 0.61898428 3 57.06017 58.17651 57.57097 58.08177  
## WHT:AftLow 52.60000 0.10000000 3 52.50000 52.70000 52.55000 52.60000  
## WT/BLK:AftHigh 57.29663 0.06577164 3 57.23565 57.36633 57.26179 57.28792  
## WT/BLK:AftLow 57.26667 0.47258156 3 56.90000 57.80000 57.00000 57.10000  
## WT/BR:AftHigh 59.32093 0.49177365 3 58.79068 59.76203 59.10038 59.41008  
## WT/BR:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 57.87632  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 57.54172  
## BLK:AftLow 53.95000  
## BRN:AftHigh 58.03079  
## BRN:AftLow 51.50000  
## WHT:AftHigh 58.12914  
## WHT:AftLow 52.65000  
## WT/BLK:AftHigh 57.32712  
## WT/BLK:AftLow 57.45000  
## WT/BR:AftHigh 59.58606  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 59.32093 a  
## BRN:AftHigh 57.80756 b  
## WHT:AftHigh 57.77282 b  
## BL/BR:AftHigh 57.67521 b  
## BLK:AftHigh 57.52315 b  
## WT/BLK:AftHigh 57.29663 b  
## WT/BLK:AftLow 57.26667 b  
## WT/BR:AftLow 55.36667 c  
## BL/BR:AftLow 55.03333 cd  
## BLK:AftLow 53.70000 de  
## WHT:AftLow 52.60000 ef  
## BRN:AftLow 51.40000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT59 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 84.738 16.948 9.6101 3.901e-05 \*\*\*  
## THIregime 1 236.092 236.092 133.8754 2.648e-11 \*\*\*  
## Colour:THIregime 5 54.894 10.979 6.2255 0.0007784 \*\*\*  
## Residuals 24 42.324 1.764   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.763517   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.69590 0.891213 6 56.8 58.99790  
## BLK 55.12676 3.076081 6 50.2 58.20952  
## BRN 54.69200 3.352111 6 49.1 57.64510  
## WHT 53.09469 5.377015 6 47.8 58.50133  
## WT/BLK 57.15073 2.218313 6 54.8 59.48326  
## WT/BR 55.67186 3.366851 6 51.2 58.95185  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.370604   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.69590 a  
## WT/BLK 57.15073 ab  
## WT/BR 55.67186 abc  
## BLK 55.12676 bcd  
## BRN 54.69200 cd  
## WHT 53.09469 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.763517   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.13287 0.7243265 18 57.05033 59.48326  
## AftLow 53.01111 3.1904064 18 47.80000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9136017   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.13287 a  
## AftLow 53.01111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.763517 24 55.57199 2.389648 3.909537  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.42514 0.5540430 3 57.89193 58.99790 58.13876 58.38559  
## BL/BR:AftLow 56.96667 0.2886751 3 56.80000 57.30000 56.80000 56.80000  
## BLK:AftHigh 57.62019 0.5106684 3 57.30825 58.20952 57.32553 57.34280  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 57.31733 0.3020056 3 57.05033 57.64510 57.15344 57.25656  
## BRN:AftLow 52.06667 2.7061658 3 49.10000 54.40000 50.90000 52.70000  
## WHT:AftHigh 57.98939 0.4434940 3 57.72241 58.50133 57.73341 57.74441  
## WHT:AftLow 48.20000 0.4582576 3 47.80000 48.70000 47.95000 48.10000  
## WT/BLK:AftHigh 59.13479 0.4352347 3 58.64694 59.48326 58.96056 59.27418  
## WT/BLK:AftLow 55.16667 0.5507571 3 54.80000 55.80000 54.85000 54.90000  
## WT/BR:AftHigh 58.31038 0.5571997 3 57.94652 58.95185 57.98964 58.03277  
## WT/BR:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 58.69174  
## BL/BR:AftLow 57.05000  
## BLK:AftHigh 57.77616  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.45083  
## BRN:AftLow 53.55000  
## WHT:AftHigh 58.12287  
## WHT:AftLow 48.40000  
## WT/BLK:AftHigh 59.37872  
## WT/BLK:AftLow 55.35000  
## WT/BR:AftHigh 58.49231  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.13479 a  
## BL/BR:AftHigh 58.42514 ab  
## WT/BR:AftHigh 58.31038 ab  
## WHT:AftHigh 57.98939 ab  
## BLK:AftHigh 57.62019 ab  
## BRN:AftHigh 57.31733 ab  
## BL/BR:AftLow 56.96667 ab  
## WT/BLK:AftLow 55.16667 bc  
## WT/BR:AftLow 53.03333 c  
## BLK:AftLow 52.63333 c  
## BRN:AftLow 52.06667 cd  
## WHT:AftLow 48.20000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT60 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 101.016 20.203 26.156 5.556e-09 \*\*\*  
## THIregime 1 264.141 264.141 341.973 1.052e-15 \*\*\*  
## Colour:THIregime 5 74.987 14.997 19.416 9.851e-08 \*\*\*  
## Residuals 24 18.538 0.772   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7724047   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.17339 1.294625 6 55.6 59.17711  
## BLK 53.48921 5.424132 6 48.1 59.08252  
## BRN 53.45854 4.384123 6 49.2 58.33332  
## WHT 55.77912 3.184837 6 52.6 59.43846  
## WT/BLK 56.68384 1.605037 6 54.8 58.33332  
## WT/BR 55.53500 2.914805 6 51.6 58.25492  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.568887   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.17339 a  
## WT/BLK 56.68384 ab  
## WHT 55.77912 b  
## WT/BR 55.53500 b  
## BLK 53.48921 c  
## BRN 53.45854 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7724047   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.22859 0.8052511 18 55.95503 59.43846  
## AftLow 52.81111 3.2855994 18 48.10000 58.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6046297   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.22859 a  
## AftLow 52.81111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7724047 24 55.51985 1.582975 2.587366  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.78010 0.3499680 3 58.51627 59.17711 58.58160 58.64694  
## BL/BR:AftLow 57.56667 1.7214335 3 55.60000 58.80000 56.95000 58.30000  
## BLK:AftHigh 58.41176 0.6673405 3 57.74790 59.08252 58.07637 58.40485  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 57.38375 1.2594612 3 55.95503 58.33332 56.90896 57.86289  
## BRN:AftLow 49.53333 0.4932883 3 49.20000 50.10000 49.25000 49.30000  
## WHT:AftHigh 58.59157 1.1510834 3 57.28095 59.43846 58.16813 59.05530  
## WHT:AftLow 52.96667 0.5507571 3 52.60000 53.60000 52.65000 52.70000  
## WT/BLK:AftHigh 58.10101 0.4023746 3 57.63639 58.33332 57.98485 58.33332  
## WT/BLK:AftLow 55.26667 0.5033223 3 54.80000 55.80000 55.00000 55.20000  
## WT/BR:AftHigh 58.10333 0.2188484 3 57.85244 58.25492 58.02754 58.20265  
## WT/BR:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 58.91202  
## BL/BR:AftLow 58.55000  
## BLK:AftHigh 58.74369  
## BLK:AftLow 48.80000  
## BRN:AftHigh 58.09811  
## BRN:AftLow 49.70000  
## WHT:AftHigh 59.24688  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 58.33332  
## WT/BLK:AftLow 55.50000  
## WT/BR:AftHigh 58.22878  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.78010 a  
## WHT:AftHigh 58.59157 a  
## BLK:AftHigh 58.41176 a  
## WT/BR:AftHigh 58.10333 a  
## WT/BLK:AftHigh 58.10101 a  
## BL/BR:AftLow 57.56667 ab  
## BRN:AftHigh 57.38375 ab  
## WT/BLK:AftLow 55.26667 bc  
## WHT:AftLow 52.96667 c  
## WT/BR:AftLow 52.96667 c  
## BRN:AftLow 49.53333 d  
## BLK:AftLow 48.56667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT61 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 88.854 17.771 29.229 1.826e-09 \*\*\*  
## THIregime 1 179.104 179.104 294.583 5.582e-15 \*\*\*  
## Colour:THIregime 5 84.150 16.830 27.681 3.157e-09 \*\*\*  
## Residuals 24 14.592 0.608   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6079922   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.67545 1.1254424 6 55.2 57.88903  
## BLK 53.27086 4.3975131 6 49.2 57.92300  
## BRN 55.68017 1.7341765 6 53.2 57.37820  
## WHT 52.40726 5.2893040 6 46.1 57.35512  
## WT/BLK 55.43059 1.7377199 6 53.7 57.77577  
## WT/BR 56.28532 0.9801728 6 55.1 57.79320  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.391933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.67545 a  
## WT/BR 56.28532 a  
## BRN 55.68017 a  
## WT/BLK 55.43059 a  
## BLK 53.27086 b  
## WHT 52.40726 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6079922   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.18877 0.5890989 18 56.03344 57.923  
## AftLow 52.72778 3.2692517 18 46.10000 56.100  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5364337   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.18877 a  
## AftLow 52.72778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6079922 24 54.95828 1.418783 2.295538  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.65091 0.3194146 3 57.28792 57.88903 57.53185 57.77577  
## BL/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 57.24173 1.0158855 3 56.07409 57.92300 56.90109 57.72809  
## BLK:AftLow 49.30000 0.1000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 57.16033 0.1890479 3 57.03964 57.37820 57.05140 57.06316  
## BRN:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## WHT:AftHigh 57.11453 0.3268898 3 56.74235 57.35512 56.99423 57.24610  
## WHT:AftLow 47.70000 1.8330303 3 46.10000 49.70000 46.70000 47.30000  
## WT/BLK:AftHigh 56.92784 0.8720954 3 56.03344 57.77577 56.50387 56.97430  
## WT/BLK:AftLow 53.93333 0.2516611 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 57.03731 0.6648642 3 56.54307 57.79320 56.65937 56.77567  
## WT/BR:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.83240  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 57.82554  
## BLK:AftLow 49.35000  
## BRN:AftHigh 57.22068  
## BRN:AftLow 54.70000  
## WHT:AftHigh 57.30061  
## WHT:AftLow 48.50000  
## WT/BLK:AftHigh 57.37504  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 57.28444  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.65091 a  
## BLK:AftHigh 57.24173 a  
## BRN:AftHigh 57.16033 a  
## WHT:AftHigh 57.11453 a  
## WT/BR:AftHigh 57.03731 a  
## WT/BLK:AftHigh 56.92784 a  
## BL/BR:AftLow 55.70000 ab  
## WT/BR:AftLow 55.53333 ab  
## BRN:AftLow 54.20000 b  
## WT/BLK:AftLow 53.93333 b  
## BLK:AftLow 49.30000 c  
## WHT:AftLow 47.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT62 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 62.875 12.575 11.546 9.279e-06 \*\*\*  
## THIregime 1 225.181 225.181 206.761 2.715e-13 \*\*\*  
## Colour:THIregime 5 61.581 12.316 11.309 1.097e-05 \*\*\*  
## Residuals 24 26.138 1.089   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.089092   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.30923 1.665485 6 52.8 56.87723  
## BLK 53.93943 4.141521 6 50.1 58.17912  
## BRN 53.21913 4.791159 6 48.1 57.79755  
## WHT 55.66835 3.649099 6 50.2 59.13044  
## WT/BLK 57.09754 1.534311 6 55.6 60.00596  
## WT/BR 56.27237 2.007184 6 54.3 58.60774  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.862951   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.09754 a  
## WT/BR 56.27237 a  
## WHT 55.66835 ab  
## BL/BR 55.30923 ab  
## BLK 53.93943 bc  
## BRN 53.21913 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.089092   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.75201 1.026388 18 55.49332 60.00596  
## AftLow 52.75000 2.793743 18 48.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7179585   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.75201 a  
## AftLow 52.75000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.089092 24 55.25101 1.888827 3.072329  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.38512 0.7737066 3 55.49332 56.87723 56.13907 56.78482  
## BL/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## BLK:AftHigh 57.71220 0.4072701 3 57.43021 58.17912 57.47874 57.52726  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 57.53826 0.3651642 3 57.12066 57.79755 57.40862 57.69658  
## BRN:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## WHT:AftHigh 58.77002 0.3244279 3 58.50133 59.13044 58.58982 58.67830  
## WHT:AftLow 52.56667 2.0792627 3 50.20000 54.10000 51.80000 53.40000  
## WT/BLK:AftHigh 58.02841 1.7269547 3 56.81749 60.00596 57.03964 57.26179  
## WT/BLK:AftLow 56.16667 0.5507571 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 58.07807 0.5166958 3 57.57541 58.60774 57.81323 58.05106  
## WT/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 56.83102  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 57.85319  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.74706  
## BRN:AftLow 49.30000  
## WHT:AftHigh 58.90437  
## WHT:AftLow 53.75000  
## WT/BLK:AftHigh 58.63387  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 58.32940  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.77002 a  
## WT/BR:AftHigh 58.07807 a  
## WT/BLK:AftHigh 58.02841 a  
## BLK:AftHigh 57.71220 a  
## BRN:AftHigh 57.53826 ab  
## BL/BR:AftHigh 56.38512 abc  
## WT/BLK:AftLow 56.16667 abc  
## WT/BR:AftLow 54.46667 bcd  
## BL/BR:AftLow 54.23333 cd  
## WHT:AftLow 52.56667 de  
## BLK:AftLow 50.16667 ef  
## BRN:AftLow 48.90000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT63 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 20.716 4.143 1.9174 0.1287   
## THIregime 1 223.880 223.880 103.6118 3.472e-10 \*\*\*  
## Colour:THIregime 5 10.101 2.020 0.9350 0.4761   
## Residuals 24 51.858 2.161   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.160759   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.59622 2.466986 6 51.6 57.94130  
## BLK 54.25789 3.114403 6 49.4 57.11735  
## BRN 56.45213 4.512145 6 49.9 63.18136  
## WHT 55.54696 2.862310 6 52.6 58.50133  
## WT/BLK 56.57327 2.901477 6 53.7 59.48326  
## WT/BR 55.80283 2.100370 6 53.1 58.28105  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.624052   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.57327 a  
## BRN 56.45213 a  
## WT/BR 55.80283 a  
## BL/BR 55.59622 a  
## WHT 55.54696 a  
## BLK 54.25789 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.160759   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.19865 1.483979 18 56.51955 63.18136  
## AftLow 53.21111 1.631271 18 49.40000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.011277   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.19865 a  
## AftLow 53.21111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.160759 24 55.70488 2.638821 4.327515  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.49244 0.4670271 3 57.00915 57.94130 57.26801 57.52687  
## BL/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## BLK:AftHigh 56.84911 0.3035808 3 56.51955 57.11735 56.71498 56.91041  
## BLK:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 59.87093 2.8671874 3 58.17651 63.18136 58.21571 58.25492  
## BRN:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## WHT:AftHigh 58.12725 0.3240551 3 57.93258 58.50133 57.94021 57.94783  
## WHT:AftLow 52.96667 0.6350853 3 52.60000 53.70000 52.60000 52.60000  
## WT/BLK:AftHigh 59.21320 0.2745212 3 58.93443 59.48326 59.07817 59.22191  
## WT/BLK:AftLow 53.93333 0.2516611 3 53.70000 54.20000 53.80000 53.90000  
## WT/BR:AftHigh 57.63900 0.5577011 3 57.27485 58.28105 57.31798 57.36110  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 57.73408  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 57.01388  
## BLK:AftLow 52.80000  
## BRN:AftHigh 60.71814  
## BRN:AftLow 54.60000  
## WHT:AftHigh 58.22458  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 59.35259  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 57.82107  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 59.87093 a  
## WT/BLK:AftHigh 59.21320 a  
## WHT:AftHigh 58.12725 ab  
## WT/BR:AftHigh 57.63900 abc  
## BL/BR:AftHigh 57.49244 abc  
## BLK:AftHigh 56.84911 abcd  
## WT/BR:AftLow 53.96667 bcde  
## WT/BLK:AftLow 53.93333 bcde  
## BL/BR:AftLow 53.70000 cde  
## BRN:AftLow 53.03333 de  
## WHT:AftLow 52.96667 de  
## BLK:AftLow 51.66667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT64 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 136.535 27.307 104.383 1.776e-15 \*\*\*  
## THIregime 1 241.572 241.572 923.423 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 96.163 19.233 73.518 9.335e-14 \*\*\*  
## Residuals 24 6.279 0.262   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2616047   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.31473 0.7373205 6 55.2 57.07137  
## BLK 55.71092 1.4930620 6 53.3 57.27224  
## BRN 53.58900 4.1087931 6 49.1 57.80626  
## WHT 52.17385 6.0420620 6 46.2 57.96743  
## WT/BLK 58.10083 2.1523643 6 55.6 60.26731  
## WT/BR 56.31991 2.8299136 6 53.7 59.57473  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9130445   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 58.10083 a  
## WT/BR 56.31991 b  
## BL/BR 56.31473 b  
## BLK 55.71092 b  
## BRN 53.58900 c  
## WHT 52.17385 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2616047   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.95864 1.215713 18 56.70195 60.26731  
## AftLow 52.77778 3.546756 18 46.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3518761   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.95864 a  
## AftLow 52.77778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2616047 24 55.36821 0.9237667 1.505768  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.92946 0.12417830 3 56.84072 57.07137 56.85851 56.87629  
## BL/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 56.92185 0.30672403 3 56.70195 57.27224 56.74665 56.79136  
## BLK:AftLow 54.50000 1.03923048 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 57.31134 0.44135432 3 56.95862 57.80626 57.06387 57.16912  
## BRN:AftLow 49.86667 0.66583281 3 49.10000 50.30000 49.65000 50.20000  
## WHT:AftHigh 57.68103 0.27520069 3 57.41860 57.96743 57.53784 57.65708  
## WHT:AftLow 46.66667 0.45092498 3 46.20000 47.10000 46.45000 46.70000  
## WT/BLK:AftHigh 60.03500 0.23526877 3 59.79688 60.26731 59.91884 60.04081  
## WT/BLK:AftLow 56.16667 0.55075705 3 55.60000 56.70000 55.90000 56.20000  
## WT/BR:AftHigh 58.87315 0.67863287 3 58.22007 59.57473 58.52236 58.82466  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 56.97383  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 57.03180  
## BLK:AftLow 55.10000  
## BRN:AftHigh 57.48769  
## BRN:AftLow 50.25000  
## WHT:AftHigh 57.81225  
## WHT:AftLow 46.90000  
## WT/BLK:AftHigh 60.15406  
## WT/BLK:AftLow 56.45000  
## WT/BR:AftHigh 59.19970  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.03500 a  
## WT/BR:AftHigh 58.87315 ab  
## WHT:AftHigh 57.68103 bc  
## BRN:AftHigh 57.31134 cd  
## BL/BR:AftHigh 56.92946 cde  
## BLK:AftHigh 56.92185 cde  
## WT/BLK:AftLow 56.16667 de  
## BL/BR:AftLow 55.70000 ef  
## BLK:AftLow 54.50000 fg  
## WT/BR:AftLow 53.76667 g  
## BRN:AftLow 49.86667 h  
## WHT:AftLow 46.66667 i  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT65 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 101.828 20.366 25.716 6.574e-09 \*\*\*  
## THIregime 1 215.799 215.799 272.498 1.326e-14 \*\*\*  
## Colour:THIregime 5 80.205 16.041 20.256 6.619e-08 \*\*\*  
## Residuals 24 19.006 0.792   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7919265   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.29844 1.8767975 6 53.6 58.43039  
## BLK 54.16452 3.1535793 6 50.2 56.92493  
## BRN 53.19923 4.7298983 6 48.3 57.94130  
## WHT 52.86097 4.6395501 6 47.5 57.15398  
## WT/BLK 57.10975 0.5861719 6 56.1 57.80000  
## WT/BR 56.52384 2.3007724 6 53.7 58.92136  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.588589   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.10975 a  
## WT/BR 56.52384 a  
## BL/BR 56.29844 a  
## BLK 54.16452 b  
## BRN 53.19923 b  
## WHT 52.86097 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7919265   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.47447 0.6888887 18 56.47774 58.92136  
## AftLow 52.57778 3.3691604 18 47.50000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6122228   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.47447 a  
## AftLow 52.57778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7919265 24 55.02612 1.617236 2.619859  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.86355 0.4938735 3 57.52604 58.43039 57.58012 57.63421  
## BL/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## BLK:AftHigh 56.72905 0.2286940 3 56.47774 56.92493 56.63111 56.78448  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 57.49845 0.4580534 3 57.02657 57.94130 57.27703 57.52749  
## BRN:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## WHT:AftHigh 57.05527 0.1173521 3 56.92551 57.15398 57.00591 57.08631  
## WHT:AftLow 48.66667 1.0115994 3 47.50000 49.30000 48.35000 49.20000  
## WT/BLK:AftHigh 57.11949 0.2621232 3 56.81749 57.28792 57.03528 57.25307  
## WT/BLK:AftLow 57.10000 0.8888194 3 56.10000 57.80000 56.75000 57.40000  
## WT/BR:AftHigh 58.58102 0.3075926 3 58.32287 58.92136 58.41085 58.49884  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 58.03230  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 56.85471  
## BLK:AftLow 52.30000  
## BRN:AftHigh 57.73439  
## BRN:AftLow 49.20000  
## WHT:AftHigh 57.12014  
## WHT:AftLow 49.25000  
## WT/BLK:AftHigh 57.27050  
## WT/BLK:AftLow 57.60000  
## WT/BR:AftHigh 58.71010  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.58102 a  
## BL/BR:AftHigh 57.86355 a  
## BRN:AftHigh 57.49845 a  
## WT/BLK:AftHigh 57.11949 ab  
## WT/BLK:AftLow 57.10000 ab  
## WHT:AftHigh 57.05527 abc  
## BLK:AftHigh 56.72905 abc  
## BL/BR:AftLow 54.73333 bc  
## WT/BR:AftLow 54.46667 c  
## BLK:AftLow 51.60000 d  
## BRN:AftLow 48.90000 e  
## WHT:AftLow 48.66667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT66 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 75.621 15.124 11.4153 1.017e-05 \*\*\*  
## THIregime 1 188.111 188.111 141.9807 1.446e-11 \*\*\*  
## Colour:THIregime 5 27.383 5.477 4.1336 0.007528 \*\*   
## Residuals 24 31.798 1.325   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.324906   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.04759 2.139717 6 51.6 56.85234  
## BLK 54.12563 2.669243 6 49.2 56.68420  
## BRN 52.81038 4.597299 6 48.2 57.32118  
## WHT 55.99677 2.418825 6 53.6 58.48665  
## WT/BLK 57.07030 2.411028 6 54.2 59.74461  
## WT/BR 56.46469 2.226251 6 53.6 58.62603  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.054763   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.07030 a  
## WT/BR 56.46469 a  
## WHT 55.99677 ab  
## BL/BR 55.04759 ab  
## BLK 54.12563 bc  
## BRN 52.81038 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.324906   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.53845 1.239117 18 55.56301 59.74461  
## AftLow 52.96667 2.528659 18 48.20000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7918805   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.53845 a  
## AftLow 52.96667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.324906 24 55.25256 2.083244 3.38866  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.56184 0.2715431 3 56.31439 56.85234 56.41660 56.51880  
## BL/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## BLK:AftHigh 55.95126 0.6351195 3 55.56301 56.68420 55.58479 55.60657  
## BLK:AftLow 52.30000 2.7221315 3 49.20000 54.30000 51.30000 53.40000  
## BRN:AftHigh 56.98742 0.4811243 3 56.43592 57.32118 56.82054 57.20516  
## BRN:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## WHT:AftHigh 58.19355 0.2816431 3 57.92496 58.48665 58.04700 58.16904  
## WHT:AftLow 53.80000 0.2645751 3 53.60000 54.10000 53.65000 53.70000  
## WT/BLK:AftHigh 59.14060 0.9717056 3 58.01970 59.74461 58.83860 59.65749  
## WT/BLK:AftLow 55.00000 0.8544004 3 54.20000 55.90000 54.55000 54.90000  
## WT/BR:AftHigh 58.39604 0.2382159 3 58.15038 58.62603 58.28105 58.41173  
## WT/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 56.68557  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 56.14538  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.26317  
## BRN:AftLow 48.85000  
## WHT:AftHigh 58.32784  
## WHT:AftLow 53.90000  
## WT/BLK:AftHigh 59.70105  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 58.51888  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.14060 a  
## WT/BR:AftHigh 58.39604 a  
## WHT:AftHigh 58.19355 ab  
## BRN:AftHigh 56.98742 abc  
## BL/BR:AftHigh 56.56184 abcd  
## BLK:AftHigh 55.95126 abcd  
## WT/BLK:AftLow 55.00000 bcde  
## WT/BR:AftLow 54.53333 cde  
## WHT:AftLow 53.80000 cde  
## BL/BR:AftLow 53.53333 de  
## BLK:AftLow 52.30000 e  
## BRN:AftLow 48.63333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT67 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 38.855 7.771 7.3748 0.0002597 \*\*\*  
## THIregime 1 236.937 236.937 224.8572 1.093e-13 \*\*\*  
## Colour:THIregime 5 82.014 16.403 15.5665 7.373e-07 \*\*\*  
## Residuals 24 25.289 1.054   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.053721   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.49354 0.7595017 6 54.3 56.21348  
## BLK 53.57751 5.1808335 6 48.4 59.31269  
## BRN 53.91448 3.3697060 6 50.1 57.24001  
## WHT 52.36551 4.5800163 6 47.8 56.66395  
## WT/BLK 55.14057 1.8469209 6 53.2 57.70608  
## WT/BR 54.50115 2.3848458 6 51.2 56.45160  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.83245   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 55.49354 a  
## WT/BLK 55.14057 ab  
## WT/BR 54.50115 ab  
## BRN 53.91448 abc  
## BLK 53.57751 bc  
## WHT 52.36551 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.053721   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.73092 0.9999421 18 55.06645 59.31269  
## AftLow 51.60000 2.7563830 18 47.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7062036   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.73092 a  
## AftLow 51.60000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.053721 24 54.16546 1.895136 3.022027  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 55.95376 0.3916508 3 55.50327 56.21348 55.82389 56.14451  
## BL/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## BLK:AftHigh 58.22168 1.3016314 3 56.78090 59.31269 57.67617 58.57144  
## BLK:AftLow 48.93333 0.8386497 3 48.40000 49.90000 48.45000 48.50000  
## BRN:AftHigh 56.96229 0.2766022 3 56.68682 57.24001 56.82343 56.96004  
## BRN:AftLow 50.86667 0.6658328 3 50.10000 51.30000 50.65000 51.20000  
## WHT:AftHigh 56.53101 0.1306306 3 56.40281 56.66395 56.46454 56.52627  
## WHT:AftLow 48.20000 0.6082763 3 47.80000 48.90000 47.85000 47.90000  
## WT/BLK:AftHigh 56.74780 0.8335932 3 56.19025 57.70608 56.26866 56.34706  
## WT/BLK:AftLow 53.53333 0.2886751 3 53.20000 53.70000 53.45000 53.70000  
## WT/BR:AftHigh 55.96897 0.7822417 3 55.06645 56.45160 55.72766 56.38888  
## WT/BR:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 56.17900  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 58.94207  
## BLK:AftLow 49.20000  
## BRN:AftHigh 57.10003  
## BRN:AftLow 51.25000  
## WHT:AftHigh 56.59511  
## WHT:AftLow 48.40000  
## WT/BLK:AftHigh 57.02657  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 56.42024  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.22168 a  
## BRN:AftHigh 56.96229 ab  
## WT/BLK:AftHigh 56.74780 ab  
## WHT:AftHigh 56.53101 abc  
## WT/BR:AftHigh 55.96897 abcd  
## BL/BR:AftHigh 55.95376 abcd  
## BL/BR:AftLow 55.03333 bcd  
## WT/BLK:AftLow 53.53333 cde  
## WT/BR:AftLow 53.03333 de  
## BRN:AftLow 50.86667 ef  
## BLK:AftLow 48.93333 f  
## WHT:AftLow 48.20000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT68 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 46.844 9.369 5.3357 0.001951 \*\*   
## THIregime 1 174.488 174.488 99.3728 5.227e-10 \*\*\*  
## Colour:THIregime 5 28.580 5.716 3.2553 0.022007 \*   
## Residuals 24 42.141 1.756   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.755893   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.69872 0.6433638 6 54.6 56.62003  
## BLK 54.98172 3.8022604 6 50.1 60.28382  
## BRN 53.78523 3.6356221 6 49.1 57.02221  
## WHT 55.79005 2.4850596 6 53.2 58.34029  
## WT/BLK 57.62091 2.5270923 6 54.6 60.73774  
## WT/BR 55.49943 2.8967795 6 51.6 58.47271  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.365474   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.62091 a  
## WHT 55.79005 ab  
## BL/BR 55.69872 ab  
## WT/BR 55.49943 ab  
## BLK 54.98172 b  
## BRN 53.78523 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.755893   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.76424 1.538583 18 55.71982 60.73774  
## AftLow 53.36111 2.132698 18 49.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9116248   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.76424 a  
## AftLow 53.36111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.755893 24 55.56268 2.384877 3.901077  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.03078 0.5105646 3 55.71982 56.62003 55.73615 55.75249  
## BL/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## BLK:AftHigh 58.06344 2.2498882 3 55.78516 60.28382 56.95325 58.12134  
## BLK:AftLow 51.90000 1.6093477 3 50.10000 53.20000 51.25000 52.40000  
## BRN:AftHigh 56.60379 0.5900552 3 55.92890 57.02221 56.39458 56.86026  
## BRN:AftLow 50.96667 2.9771351 3 49.10000 54.40000 49.25000 49.40000  
## WHT:AftHigh 58.04676 0.2778820 3 57.78775 58.34029 57.89999 58.01223  
## WHT:AftLow 53.53333 0.2886751 3 53.20000 53.70000 53.45000 53.70000  
## WT/BLK:AftHigh 59.80850 0.9410751 3 58.85602 60.73774 59.34387 59.83173  
## WT/BLK:AftLow 55.43333 0.8504901 3 54.60000 56.30000 55.00000 55.40000  
## WT/BR:AftHigh 58.03219 0.5747828 3 57.38201 58.47271 57.81193 58.24185  
## WT/BR:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 56.18626  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 59.20258  
## BLK:AftLow 52.80000  
## BRN:AftHigh 56.94124  
## BRN:AftLow 51.90000  
## WHT:AftHigh 58.17626  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 60.28473  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 58.35728  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.80850 a  
## BLK:AftHigh 58.06344 ab  
## WHT:AftHigh 58.04676 ab  
## WT/BR:AftHigh 58.03219 ab  
## BRN:AftHigh 56.60379 abc  
## BL/BR:AftHigh 56.03078 abc  
## WT/BLK:AftLow 55.43333 bcd  
## BL/BR:AftLow 55.36667 bcd  
## WHT:AftLow 53.53333 cde  
## WT/BR:AftLow 52.96667 cde  
## BLK:AftLow 51.90000 de  
## BRN:AftLow 50.96667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT69 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 48.385 9.677 7.5526 0.0002209 \*\*\*  
## THIregime 1 249.072 249.072 194.3940 5.275e-13 \*\*\*  
## Colour:THIregime 5 45.971 9.194 7.1758 0.0003119 \*\*\*  
## Residuals 24 30.751 1.281   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.281273   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.41612 1.536392 6 54.6 58.10184  
## BLK 53.79889 4.740727 6 49.2 59.13044  
## BRN 55.37939 1.882145 6 53.2 57.24436  
## WHT 55.15078 4.652345 6 47.7 59.28911  
## WT/BLK 56.78102 3.364989 6 53.1 60.21504  
## WT/BR 57.25580 1.952880 6 55.1 59.44406  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.020645   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 57.25580 a  
## WT/BLK 56.78102 ab  
## BL/BR 56.41612 ab  
## BRN 55.37939 abc  
## WHT 55.15078 bc  
## BLK 53.79889 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.281273   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.42734 1.067885 18 56.72245 60.21504  
## AftLow 53.16667 2.493757 18 47.70000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7787317   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.42734 a  
## AftLow 53.16667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.281273 24 55.797 2.028663 3.332393  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.73225 0.4633533 3 57.21242 58.10184 57.54746 57.88249  
## BL/BR:AftLow 55.10000 0.7000000 3 54.60000 55.90000 54.70000 54.80000  
## BLK:AftHigh 58.06446 1.1652724 3 56.82039 59.13044 57.53146 58.24254  
## BLK:AftLow 49.53333 0.4932883 3 49.20000 50.10000 49.25000 49.30000  
## BRN:AftHigh 57.05878 0.2917850 3 56.72245 57.24436 56.96598 57.20952  
## BRN:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## WHT:AftHigh 58.96822 0.4344800 3 58.47380 59.28911 58.80778 59.14176  
## WHT:AftLow 51.33333 3.1942657 3 47.70000 53.70000 50.15000 52.60000  
## WT/BLK:AftHigh 59.76203 0.4224934 3 59.37872 60.21504 59.53553 59.69234  
## WT/BLK:AftLow 53.80000 1.2124356 3 53.10000 55.20000 53.10000 53.10000  
## WT/BR:AftHigh 58.97827 0.6085274 3 58.28976 59.44406 58.74538 59.20100  
## WT/BR:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.99216  
## BL/BR:AftLow 55.35000  
## BLK:AftHigh 58.68649  
## BLK:AftLow 49.70000  
## BRN:AftHigh 57.22694  
## BRN:AftLow 53.95000  
## WHT:AftHigh 59.21544  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 59.95369  
## WT/BLK:AftLow 54.15000  
## WT/BR:AftHigh 59.32253  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.76203 a  
## WT/BR:AftHigh 58.97827 a  
## WHT:AftHigh 58.96822 a  
## BLK:AftHigh 58.06446 ab  
## BL/BR:AftHigh 57.73225 ab  
## BRN:AftHigh 57.05878 abc  
## WT/BR:AftLow 55.53333 bcd  
## BL/BR:AftLow 55.10000 bcd  
## WT/BLK:AftLow 53.80000 cde  
## BRN:AftLow 53.70000 de  
## WHT:AftLow 51.33333 ef  
## BLK:AftLow 49.53333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT70 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 31.149 6.230 6.8288 0.0004324 \*\*\*  
## THIregime 1 158.302 158.302 173.5234 1.771e-12 \*\*\*  
## Colour:THIregime 5 1.161 0.232 0.2546 0.9332836   
## Residuals 24 21.895 0.912   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9122784   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.47069 2.588770 6 54.2 60.06476  
## BLK 56.47703 2.588427 6 53.2 59.36496  
## BRN 54.83708 2.798247 6 50.2 57.38296  
## WHT 55.78590 2.230650 6 53.7 58.27452  
## WT/BLK 57.50451 2.196584 6 54.7 60.73774  
## WT/BR 56.43992 2.288865 6 54.3 59.55295  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.705033   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.50451 a  
## BL/BR 57.47069 ab  
## BLK 56.47703 abc  
## WT/BR 56.43992 abc  
## WHT 55.78590 bc  
## BRN 54.83708 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9122784   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.51616 1.146709 18 56.4516 60.73774  
## AftLow 54.32222 1.368793 18 50.2000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6570989   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.51616 a  
## AftLow 54.32222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9122784 24 56.41919 1.692922 2.811895  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.77472 0.2556750 3 59.58199 60.06476 59.62970 59.67741  
## BL/BR:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## BLK:AftHigh 58.75406 0.5341377 3 58.37514 59.36496 58.44860 58.52207  
## BLK:AftLow 54.20000 0.9539392 3 53.20000 55.10000 53.75000 54.30000  
## BRN:AftHigh 57.04083 0.5124919 3 56.45160 57.38296 56.86976 57.28792  
## BRN:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## WHT:AftHigh 57.80512 0.4408145 3 57.39993 58.27452 57.57043 57.74093  
## WHT:AftLow 53.76667 0.1154701 3 53.70000 53.90000 53.70000 53.70000  
## WT/BLK:AftHigh 59.30903 1.2384056 3 58.54240 60.73774 58.59467 58.64694  
## WT/BLK:AftLow 55.70000 0.8717798 3 54.70000 56.30000 55.40000 56.10000  
## WT/BR:AftHigh 58.41318 1.1801361 3 57.19645 59.55295 57.84329 58.49013  
## WT/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 59.87108  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 58.94352  
## BLK:AftLow 54.70000  
## BRN:AftHigh 57.33544  
## BRN:AftLow 53.85000  
## WHT:AftHigh 58.00772  
## WHT:AftLow 53.80000  
## WT/BLK:AftHigh 59.69234  
## WT/BLK:AftLow 56.20000  
## WT/BR:AftHigh 59.02154  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.77472 a  
## WT/BLK:AftHigh 59.30903 a  
## BLK:AftHigh 58.75406 a  
## WT/BR:AftHigh 58.41318 ab  
## WHT:AftHigh 57.80512 abc  
## BRN:AftHigh 57.04083 abcd  
## WT/BLK:AftLow 55.70000 bcde  
## BL/BR:AftLow 55.16667 cdef  
## WT/BR:AftLow 54.46667 def  
## BLK:AftLow 54.20000 ef  
## WHT:AftLow 53.76667 ef  
## BRN:AftLow 52.63333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT71 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 95.08 19.02 19.982 7.523e-08 \*\*\*  
## THIregime 1 440.40 440.40 462.762 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 74.26 14.85 15.605 7.213e-07 \*\*\*  
## Residuals 24 22.84 0.95   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9516834   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.37009 1.843705 6 53.8 58.30719  
## BLK 53.13842 4.712197 6 48.1 57.94710  
## BRN 53.00030 4.878451 6 48.1 57.64945  
## WHT 53.17576 6.342191 6 46.1 59.20324  
## WT/BLK 56.52339 3.372956 6 52.5 59.71848  
## WT/BR 56.14448 2.548743 6 53.1 59.65052  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.741468   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.52339 a  
## BL/BR 56.37009 a  
## WT/BR 56.14448 a  
## WHT 53.17576 b  
## BLK 53.13842 b  
## BRN 53.00030 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9516834   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.22303 0.9115035 18 56.7992 59.71848  
## AftLow 51.22778 3.2363388 18 46.1000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6711403   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.22303 a  
## AftLow 51.22778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9516834 24 54.72541 1.782614 2.871982  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.94019 0.3202113 3 57.71770 58.30719 57.75669 57.79569  
## BL/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## BLK:AftHigh 57.37684 0.5739891 3 56.79920 57.94710 57.09170 57.38421  
## BLK:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## BRN:AftHigh 57.43393 0.3370023 3 57.04558 57.64945 57.32617 57.60677  
## BRN:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## WHT:AftHigh 58.91818 0.3725314 3 58.49666 59.20324 58.77565 59.05465  
## WHT:AftLow 47.43333 1.2220202 3 46.10000 48.50000 46.90000 47.70000  
## WT/BLK:AftHigh 59.34678 0.4555405 3 58.83860 59.71848 59.16093 59.48326  
## WT/BLK:AftLow 53.70000 2.0784610 3 52.50000 56.10000 52.50000 52.50000  
## WT/BR:AftHigh 58.32229 1.1867328 3 57.36633 59.65052 57.65817 57.95001  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 58.05144  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 57.66565  
## BLK:AftLow 49.30000  
## BRN:AftHigh 57.62811  
## BRN:AftLow 48.80000  
## WHT:AftHigh 59.12894  
## WHT:AftLow 48.10000  
## WT/BLK:AftHigh 59.60087  
## WT/BLK:AftLow 54.30000  
## WT/BR:AftHigh 58.80027  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.34678 a  
## WHT:AftHigh 58.91818 a  
## WT/BR:AftHigh 58.32229 a  
## BL/BR:AftHigh 57.94019 a  
## BRN:AftHigh 57.43393 ab  
## BLK:AftHigh 57.37684 ab  
## BL/BR:AftLow 54.80000 bc  
## WT/BR:AftLow 53.96667 c  
## WT/BLK:AftLow 53.70000 c  
## BLK:AftLow 48.90000 d  
## BRN:AftLow 48.56667 d  
## WHT:AftLow 47.43333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT72 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 45.717 9.143 3.4273 0.01773 \*   
## THIregime 1 293.727 293.727 110.1001 1.905e-10 \*\*\*  
## Colour:THIregime 5 22.986 4.597 1.7232 0.16762   
## Residuals 24 64.028 2.668   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.667818   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.99048 2.511243 6 54.6 59.43099  
## BLK 55.92502 3.620909 6 49.9 59.13938  
## BRN 53.70198 4.829481 6 49.2 58.52339  
## WHT 54.86990 4.118187 6 47.6 58.37514  
## WT/BLK 56.59576 2.896595 6 52.6 60.50253  
## WT/BR 56.35534 2.838510 6 53.7 59.05465  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.91573   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.99048 a  
## WT/BLK 56.59576 ab  
## WT/BR 56.35534 ab  
## BLK 55.92502 ab  
## WHT 54.86990 ab  
## BRN 53.70198 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.667818   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.59616 0.8269405 18 57.22072 60.50253  
## AftLow 52.88333 2.6690492 18 47.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.123687   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.59616 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.667818 24 55.73975 2.930307 4.808544  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.28096 0.13033038 3 59.19578 59.43099 59.20594 59.21610  
## BL/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## BLK:AftHigh 58.81670 0.28038748 3 58.63242 59.13938 58.65536 58.67830  
## BLK:AftLow 53.03333 2.75922694 3 49.90000 55.10000 52.00000 54.10000  
## BRN:AftHigh 58.10397 0.40908196 3 57.70608 58.52339 57.89425 58.08242  
## BRN:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## WHT:AftHigh 57.97312 0.65211533 3 57.22072 58.37514 57.77212 58.32352  
## WHT:AftLow 51.76667 3.61708907 3 47.60000 54.10000 50.60000 53.60000  
## WT/BLK:AftHigh 58.45819 1.77663188 3 57.28792 60.50253 57.43602 57.58412  
## WT/BLK:AftLow 54.73333 2.72274371 3 52.60000 57.80000 53.20000 53.80000  
## WT/BR:AftHigh 58.94401 0.18937208 3 58.72535 59.05465 58.88869 59.05203  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 59.32355  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 58.90884  
## BLK:AftLow 54.60000  
## BRN:AftHigh 58.30291  
## BRN:AftLow 49.35000  
## WHT:AftHigh 58.34933  
## WHT:AftLow 53.85000  
## WT/BLK:AftHigh 59.04332  
## WT/BLK:AftLow 55.80000  
## WT/BR:AftHigh 59.05334  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.28096 a  
## WT/BR:AftHigh 58.94401 a  
## BLK:AftHigh 58.81670 a  
## WT/BLK:AftHigh 58.45819 ab  
## BRN:AftHigh 58.10397 ab  
## WHT:AftHigh 57.97312 ab  
## WT/BLK:AftLow 54.73333 abc  
## BL/BR:AftLow 54.70000 abc  
## WT/BR:AftLow 53.76667 bcd  
## BLK:AftLow 53.03333 cd  
## WHT:AftLow 51.76667 cd  
## BRN:AftLow 49.30000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT73 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 60.126 12.025 38.725 9.991e-11 \*\*\*  
## THIregime 1 303.419 303.419 977.110 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 38.484 7.697 24.786 9.455e-09 \*\*\*  
## Residuals 24 7.453 0.311   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3105271   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.31401 2.510371 6 54.7 60.16277  
## BLK 54.33089 4.928689 6 49.1 59.56854  
## BRN 54.08777 4.303658 6 50.1 58.46400  
## WHT 55.62864 3.520027 6 52.1 59.39963  
## WT/BLK 57.34423 2.049519 6 55.1 59.88400  
## WT/BR 56.28006 2.040751 6 53.7 58.38559  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9947615   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.34423 a  
## BL/BR 57.31401 a  
## WT/BR 56.28006 b  
## WHT 55.62864 b  
## BLK 54.33089 c  
## BRN 54.08777 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3105271   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.73409 0.762602 18 57.68232 60.16277  
## AftLow 52.92778 2.378533 18 49.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3833689   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.73409 a  
## AftLow 52.92778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3105271 24 55.83093 0.9981019 1.640534  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 59.52803 0.9430444 3 58.44439 60.16277 59.21066 59.97692  
## BL/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## BLK:AftHigh 58.79510 0.7062907 3 58.18435 59.56854 58.40839 58.63242  
## BLK:AftLow 49.86667 0.6658328 3 49.10000 50.30000 49.65000 50.20000  
## BRN:AftHigh 58.00888 0.4063864 3 57.68232 58.46400 57.78132 57.88031  
## BRN:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## WHT:AftHigh 58.82394 0.5032246 3 58.46773 59.39963 58.53610 58.60447  
## WHT:AftLow 52.43333 0.3055050 3 52.10000 52.70000 52.30000 52.50000  
## WT/BLK:AftHigh 59.15512 0.6324414 3 58.75148 59.88400 58.79068 58.82989  
## WT/BLK:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## WT/BR:AftHigh 58.09346 0.3211113 3 57.74964 58.38559 57.94739 58.14515  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 60.06985  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 59.10048  
## BLK:AftLow 50.25000  
## BRN:AftHigh 58.17215  
## BRN:AftLow 50.20000  
## WHT:AftHigh 59.00205  
## WHT:AftLow 52.60000  
## WT/BLK:AftHigh 59.35694  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 58.26537  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.52803 a  
## WT/BLK:AftHigh 59.15512 a  
## WHT:AftHigh 58.82394 a  
## BLK:AftHigh 58.79510 a  
## WT/BR:AftHigh 58.09346 a  
## BRN:AftHigh 58.00888 a  
## WT/BLK:AftLow 55.53333 b  
## BL/BR:AftLow 55.10000 b  
## WT/BR:AftLow 54.46667 b  
## WHT:AftLow 52.43333 c  
## BRN:AftLow 50.16667 d  
## BLK:AftLow 49.86667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT74 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 41.680 8.336 2.5092 0.05796 .   
## THIregime 1 181.676 181.676 54.6842 1.234e-07 \*\*\*  
## Colour:THIregime 5 164.904 32.981 9.9271 3.048e-05 \*\*\*  
## Residuals 24 79.735 3.322   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.322277   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.54606 1.196785 6 54.30000 56.86395  
## BLK 53.46358 5.034347 6 48.30000 58.79504  
## BRN 54.30372 3.174897 6 49.40000 57.34890  
## WHT 53.47739 5.459223 6 48.10000 58.67482  
## WT/BLK 55.99490 1.698976 6 54.30000 57.81062  
## WT/BR 53.22642 3.964386 6 45.30502 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.253772   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 55.99490 a  
## BL/BR 55.54606 a  
## BRN 54.30372 a  
## WHT 53.47739 a  
## BLK 53.46358 a  
## WT/BR 53.22642 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.322277   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.58180 3.005887 18 45.30502 58.79504  
## AftLow 52.08889 2.794088 18 48.10000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.253964   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.58180 a  
## AftLow 52.08889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.322277 24 54.33534 3.354559 5.366033  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.62545 0.2492658 3 56.36666 56.86395 56.50620 56.64575  
## BL/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## BLK:AftHigh 58.02716 0.7828518 3 57.23015 58.79504 57.64322 58.05629  
## BLK:AftLow 48.90000 0.5196152 3 48.30000 49.20000 48.75000 49.20000  
## BRN:AftHigh 56.94077 0.5695977 3 56.29004 57.34890 56.73671 57.18338  
## BRN:AftLow 51.66667 2.0033306 3 49.40000 53.20000 50.90000 52.40000  
## WHT:AftHigh 58.45478 0.2542046 3 58.17651 58.67482 58.34475 58.51300  
## WHT:AftLow 48.50000 0.3464102 3 48.10000 48.70000 48.40000 48.70000  
## WT/BLK:AftHigh 57.52314 0.4318211 3 57.02657 57.81062 57.37939 57.73222  
## WT/BLK:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 51.91950 5.7466050 3 45.30502 55.68497 50.03676 54.76851  
## WT/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 56.75485  
## BL/BR:AftLow 54.55000  
## BLK:AftHigh 58.42566  
## BLK:AftLow 49.20000  
## BRN:AftHigh 57.26614  
## BRN:AftLow 52.80000  
## WHT:AftHigh 58.59391  
## WHT:AftLow 48.70000  
## WT/BLK:AftHigh 57.77142  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 55.22674  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.45478 a  
## BLK:AftHigh 58.02716 a  
## WT/BLK:AftHigh 57.52314 a  
## BRN:AftHigh 56.94077 ab  
## BL/BR:AftHigh 56.62545 ab  
## WT/BR:AftLow 54.53333 ab  
## BL/BR:AftLow 54.46667 ab  
## WT/BLK:AftLow 54.46667 ab  
## WT/BR:AftHigh 51.91950 bc  
## BRN:AftLow 51.66667 bc  
## BLK:AftLow 48.90000 c  
## WHT:AftLow 48.50000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT75 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 41.628 8.326 12.383 5.238e-06 \*\*\*  
## THIregime 1 238.304 238.304 354.432 7.032e-16 \*\*\*  
## Colour:THIregime 5 51.176 10.235 15.223 8.979e-07 \*\*\*  
## Residuals 24 16.137 0.672   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6723556   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.38898 3.473895 6 50.2 58.22878  
## BLK 53.49396 5.335432 6 48.2 58.54240  
## BRN 55.55201 1.336152 6 53.3 56.77472  
## WHT 55.49838 2.476515 6 52.6 57.98485  
## WT/BLK 56.66398 3.001577 6 53.1 59.58780  
## WT/BR 56.23978 1.913288 6 54.2 58.40301  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.463756   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.66398 a  
## WT/BR 56.23978 a  
## BRN 55.55201 ab  
## WHT 55.49838 ab  
## BL/BR 54.38898 bc  
## BLK 53.49396 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6723556   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.87903 0.9719758 18 56.3157 59.5878  
## AftLow 52.73333 2.3374194 18 48.2000 55.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5641136   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.87903 a  
## AftLow 52.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6723556 24 55.30618 1.482606 2.413987  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.27796 0.8951025 3 56.45160 58.22878 56.80256 57.15351  
## BL/BR:AftLow 51.50000 2.0808652 3 50.20000 53.90000 50.30000 50.40000  
## BLK:AftHigh 58.35459 0.1629453 3 58.25079 58.54240 58.26069 58.27060  
## BLK:AftLow 48.63333 0.5131601 3 48.20000 49.20000 48.35000 48.50000  
## BRN:AftHigh 56.60403 0.2511064 3 56.31570 56.77472 56.51868 56.72166  
## BRN:AftLow 54.50000 1.0392305 3 53.30000 55.10000 54.20000 55.10000  
## WHT:AftHigh 57.73009 0.2405757 3 57.50680 57.98485 57.60271 57.69861  
## WHT:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## WT/BLK:AftHigh 59.36130 0.3062743 3 59.01283 59.58780 59.24805 59.48326  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 57.94623 0.5765757 3 57.29837 58.40301 57.71784 58.13731  
## WT/BR:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 57.69115  
## BL/BR:AftLow 52.15000  
## BLK:AftHigh 58.40650  
## BLK:AftLow 48.85000  
## BRN:AftHigh 56.74819  
## BRN:AftLow 55.10000  
## WHT:AftHigh 57.84173  
## WHT:AftLow 53.60000  
## WT/BLK:AftHigh 59.53553  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 58.27016  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BLK:AftHigh 58.35459 ab  
## WT/BR:AftHigh 57.94623 ab  
## WHT:AftHigh 57.73009 ab  
## BL/BR:AftHigh 57.27796 ab  
## BRN:AftHigh 56.60403 bc  
## WT/BR:AftLow 54.53333 cd  
## BRN:AftLow 54.50000 cd  
## WT/BLK:AftLow 53.96667 d  
## WHT:AftLow 53.26667 de  
## BL/BR:AftLow 51.50000 e  
## BLK:AftLow 48.63333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT76 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 55.621 11.124 6.8504 0.0004236 \*\*\*  
## THIregime 1 125.383 125.383 77.2124 5.764e-09 \*\*\*  
## Colour:THIregime 5 29.129 5.826 3.5876 0.0145375 \*   
## Residuals 24 38.973 1.624   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.62387   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.59525 1.258202 6 55.3 58.31839  
## BLK 54.37793 3.914975 6 50.1 58.96579  
## BRN 53.56495 2.969580 6 50.2 58.20787  
## WHT 56.52265 1.836307 6 54.2 58.46400  
## WT/BLK 55.81187 2.470155 6 53.7 59.41357  
## WT/BR 56.92480 1.869426 6 54.3 58.88216  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.274809   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.92480 a  
## BL/BR 56.59525 ab  
## WHT 56.52265 ab  
## WT/BLK 55.81187 abc  
## BLK 54.37793 bc  
## BRN 53.56495 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.62387   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.49915 1.515855 18 54.12559 59.41357  
## AftLow 53.76667 2.231591 18 50.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8766833   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.49915 a  
## AftLow 53.76667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.62387 24 55.63291 2.290572 3.751553  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.05716 1.21418751 3 55.89623 58.31839 56.42655 56.95688  
## BL/BR:AftLow 56.13333 1.35769412 3 55.30000 57.70000 55.35000 55.40000  
## BLK:AftHigh 57.88919 0.94201283 3 57.21639 58.96579 57.35089 57.48538  
## BLK:AftLow 50.86667 0.66583281 3 50.10000 51.30000 50.65000 51.20000  
## BRN:AftHigh 55.52991 2.32010706 3 54.12559 58.20787 54.19092 54.25626  
## BRN:AftLow 51.60000 2.25388553 3 50.20000 54.20000 50.30000 50.40000  
## WHT:AftHigh 58.14529 0.31797832 3 57.82804 58.46400 57.98594 58.14384  
## WHT:AftLow 54.90000 0.65574385 3 54.20000 55.50000 54.60000 55.00000  
## WT/BLK:AftHigh 57.85708 1.64383710 3 56.13798 59.41357 57.07884 58.01970  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 58.51627 0.52465646 3 57.91516 58.88216 58.33332 58.75148  
## WT/BR:AftLow 55.33333 0.92915732 3 54.30000 56.10000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 57.63763  
## BL/BR:AftLow 56.55000  
## BLK:AftHigh 58.22559  
## BLK:AftLow 51.25000  
## BRN:AftHigh 56.23207  
## BRN:AftLow 52.30000  
## WHT:AftHigh 58.30392  
## WHT:AftLow 55.25000  
## WT/BLK:AftHigh 58.71663  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 58.81682  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.51627 a  
## WHT:AftHigh 58.14529 a  
## BLK:AftHigh 57.88919 a  
## WT/BLK:AftHigh 57.85708 a  
## BL/BR:AftHigh 57.05716 ab  
## BL/BR:AftLow 56.13333 ab  
## BRN:AftHigh 55.52991 ab  
## WT/BR:AftLow 55.33333 abc  
## WHT:AftLow 54.90000 abc  
## WT/BLK:AftLow 53.76667 bcd  
## BRN:AftLow 51.60000 cd  
## BLK:AftLow 50.86667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT77 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 58.969 11.794 2.9637 0.03194 \*   
## THIregime 1 178.695 178.695 44.9048 6.242e-07 \*\*\*  
## Colour:THIregime 5 50.659 10.132 2.5460 0.05519 .   
## Residuals 24 95.506 3.979   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.979415   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.30648 0.1619587 6 58.0869 58.55982  
## BLK 54.71192 4.5157597 6 49.1000 58.67569  
## BRN 54.37840 2.9452294 6 49.2000 57.24610  
## WHT 55.38416 4.5402832 6 46.8000 59.71474  
## WT/BLK 56.10960 2.0985827 6 53.7000 59.37872  
## WT/BR 56.07712 3.2955979 6 53.1000 59.78643  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.561056   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.30648 a  
## WT/BLK 56.10960 ab  
## WT/BR 56.07712 ab  
## WHT 55.38416 ab  
## BLK 54.71192 b  
## BRN 54.37840 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.979415   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.05589 1.235593 18 55.14049 59.78643  
## AftLow 53.60000 3.246537 18 46.80000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.372387   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.05589 a  
## AftLow 53.60000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.979415 24 55.82795 3.573205 5.872798  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.34628 0.23976881 3 58.08690 58.55982 58.23951 58.39212  
## BL/BR:AftLow 58.26667 0.05773503 3 58.20000 58.30000 58.25000 58.30000  
## BLK:AftHigh 58.45717 0.19003302 3 58.33057 58.67569 58.34792 58.36526  
## BLK:AftLow 50.96667 2.97713509 3 49.10000 54.40000 49.25000 49.40000  
## BRN:AftHigh 56.45680 1.14747433 3 55.14049 57.24610 56.06215 56.98380  
## BRN:AftLow 52.30000 2.72213152 3 49.20000 54.30000 51.30000 53.40000  
## WHT:AftHigh 58.33498 1.26886837 3 57.21823 59.71474 57.64510 58.07197  
## WHT:AftLow 52.43333 4.87886599 3 46.80000 55.30000 51.00000 55.20000  
## WT/BLK:AftHigh 57.75254 1.57132323 3 56.24252 59.37872 56.93945 57.63639  
## WT/BLK:AftLow 54.46667 0.66583281 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 58.98757 1.31412626 3 57.47087 59.78643 58.58814 59.70541  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 58.47597  
## BL/BR:AftLow 58.30000  
## BLK:AftHigh 58.52048  
## BLK:AftLow 51.90000  
## BRN:AftHigh 57.11495  
## BRN:AftLow 53.85000  
## WHT:AftHigh 58.89336  
## WHT:AftLow 55.25000  
## WT/BLK:AftHigh 58.50755  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 59.74592  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.98757 a  
## BLK:AftHigh 58.45717 a  
## BL/BR:AftHigh 58.34628 a  
## WHT:AftHigh 58.33498 a  
## BL/BR:AftLow 58.26667 ab  
## WT/BLK:AftHigh 57.75254 abc  
## BRN:AftHigh 56.45680 abcd  
## WT/BLK:AftLow 54.46667 abcd  
## WT/BR:AftLow 53.16667 abcd  
## WHT:AftLow 52.43333 bcd  
## BRN:AftLow 52.30000 cd  
## BLK:AftLow 50.96667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT78 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 87.208 17.442 15.760 6.609e-07 \*\*\*  
## THIregime 1 234.905 234.905 212.254 2.045e-13 \*\*\*  
## Colour:THIregime 5 59.645 11.929 10.779 1.607e-05 \*\*\*  
## Residuals 24 26.561 1.107   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.106714   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.28494 1.901458 6 53.5 58.10101  
## BLK 55.54143 2.053070 6 53.2 57.61722  
## BRN 52.50060 4.386189 6 48.3 58.29673  
## WHT 53.94917 5.260522 6 47.3 59.02677  
## WT/BLK 56.85875 2.641205 6 53.6 59.37872  
## WT/BR 56.49172 1.582390 6 54.6 57.96743  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.877962   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.85875 a  
## WT/BR 56.49172 a  
## BL/BR 56.28494 a  
## BLK 55.54143 ab  
## WHT 53.94917 bc  
## BRN 52.50060 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.106714   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.82554 1.133698 18 55.07832 59.37872  
## AftLow 52.71667 2.985898 18 47.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7237437   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.82554 a  
## AftLow 52.71667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.106714 24 55.2711 1.903354 3.097085  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.53655 0.5709279 3 56.95937 58.10101 57.25432 57.54927  
## BL/BR:AftLow 55.03333 2.0033306 3 53.50000 57.30000 53.90000 54.30000  
## BLK:AftHigh 57.38286 0.2348036 3 57.14762 57.61722 57.26568 57.38375  
## BLK:AftLow 53.70000 0.5567764 3 53.20000 54.30000 53.40000 53.60000  
## BRN:AftHigh 56.36786 1.7017911 3 55.07832 58.29673 55.40343 55.72853  
## BRN:AftLow 48.63333 0.5773503 3 48.30000 49.30000 48.30000 48.30000  
## WHT:AftHigh 58.63167 0.4493141 3 58.14291 59.02677 58.43413 58.72535  
## WHT:AftLow 49.26667 1.7897858 3 47.30000 50.80000 48.50000 49.70000  
## WT/BLK:AftHigh 59.18416 0.2719287 3 58.87344 59.37872 59.08688 59.30032  
## WT/BLK:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 57.85011 0.1445332 3 57.68866 57.96743 57.79145 57.89425  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.82514  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.50048  
## BLK:AftLow 53.95000  
## BRN:AftHigh 57.01263  
## BRN:AftLow 48.80000  
## WHT:AftHigh 58.87606  
## WHT:AftLow 50.25000  
## WT/BLK:AftHigh 59.33952  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.93084  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.18416 a  
## WHT:AftHigh 58.63167 a  
## WT/BR:AftHigh 57.85011 ab  
## BL/BR:AftHigh 57.53655 abc  
## BLK:AftHigh 57.38286 abc  
## BRN:AftHigh 56.36786 abcd  
## WT/BR:AftLow 55.13333 bcd  
## BL/BR:AftLow 55.03333 bcd  
## WT/BLK:AftLow 54.53333 cd  
## BLK:AftLow 53.70000 d  
## WHT:AftLow 49.26667 e  
## BRN:AftLow 48.63333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT79 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 29.651 5.930 4.0027 0.008791 \*\*   
## THIregime 1 178.169 178.169 120.2568 7.879e-11 \*\*\*  
## Colour:THIregime 5 32.602 6.520 4.4010 0.005511 \*\*   
## Residuals 24 35.558 1.482   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.481573   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.20595 1.170022 6 55.1 58.35572  
## BLK 55.09483 3.061405 6 50.2 58.06152  
## BRN 54.88933 2.478162 6 51.3 57.99356  
## WHT 53.53943 4.384207 6 47.3 57.52314  
## WT/BLK 56.05873 1.689466 6 54.2 57.81062  
## WT/BR 55.79307 3.210570 6 52.5 59.03897  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.172855   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.20595 a  
## WT/BLK 56.05873 a  
## WT/BR 55.79307 a  
## BLK 55.09483 ab  
## BRN 54.88933 ab  
## WHT 53.53943 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.481573   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.48822 0.8874386 18 55.88316 59.03897  
## AftLow 53.03889 2.2284626 18 47.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8373916   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.48822 a  
## AftLow 53.03889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.481573 24 55.26356 2.202534 3.583414  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.94523 1.2725718 3 55.88316 58.35572 56.23998 56.59679  
## BL/BR:AftLow 55.46667 0.4041452 3 55.10000 55.90000 55.25000 55.40000  
## BLK:AftHigh 57.55633 0.7143126 3 56.73909 58.06152 57.30374 57.86839  
## BLK:AftLow 52.63333 2.1779195 3 50.20000 54.40000 51.75000 53.30000  
## BRN:AftHigh 56.91200 1.0180111 3 55.97246 57.99356 56.37122 56.76997  
## BRN:AftLow 52.86667 1.4294521 3 51.30000 54.10000 52.25000 53.20000  
## WHT:AftHigh 57.24552 0.2728092 3 56.97778 57.52314 57.10672 57.23565  
## WHT:AftLow 49.83333 2.6025628 3 47.30000 52.50000 48.50000 49.70000  
## WT/BLK:AftHigh 57.58412 0.2682288 3 57.28792 57.81062 57.47087 57.65381  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 58.68614 0.4240399 3 58.21571 59.03897 58.50973 58.80375  
## WT/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 57.47626  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 57.96495  
## BLK:AftLow 53.85000  
## BRN:AftHigh 57.38177  
## BRN:AftLow 53.65000  
## WHT:AftHigh 57.37939  
## WHT:AftLow 51.10000  
## WT/BLK:AftHigh 57.73222  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.92136  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.68614 a  
## WT/BLK:AftHigh 57.58412 ab  
## BLK:AftHigh 57.55633 ab  
## WHT:AftHigh 57.24552 ab  
## BL/BR:AftHigh 56.94523 ab  
## BRN:AftHigh 56.91200 ab  
## BL/BR:AftLow 55.46667 abc  
## WT/BLK:AftLow 54.53333 bc  
## WT/BR:AftLow 52.90000 cd  
## BRN:AftLow 52.86667 cd  
## BLK:AftLow 52.63333 cd  
## WHT:AftLow 49.83333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT80 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 95.95 19.19 17.7514 2.259e-07 \*\*\*  
## THIregime 1 358.68 358.68 331.7876 1.477e-15 \*\*\*  
## Colour:THIregime 5 50.15 10.03 9.2771 5.084e-05 \*\*\*  
## Residuals 24 25.95 1.08   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.081068   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.27964 2.166051 6 53.5 58.32170  
## BLK 53.19260 5.093143 6 48.1 58.37397  
## BRN 53.21161 4.684788 6 48.3 58.10048  
## WHT 53.65294 4.656755 6 47.3 58.07545  
## WT/BLK 57.30230 2.262613 6 54.3 59.90142  
## WT/BR 55.89988 2.751613 6 52.6 58.62081  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.856076   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.30230 a  
## BL/BR 56.27964 a  
## WT/BR 55.89988 a  
## WHT 53.65294 b  
## BRN 53.21161 b  
## BLK 53.19260 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.081068   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.07966 0.7671063 18 56.7809 59.90142  
## AftLow 51.76667 3.0873556 18 47.3000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7153088   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.07966 a  
## AftLow 51.76667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.081068 24 54.92316 1.893089 3.06099  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.89262 0.4254671 3 57.47087 58.32170 57.67808 57.88529  
## BL/BR:AftLow 54.66667 1.9347696 3 53.50000 56.90000 53.55000 53.60000  
## BLK:AftHigh 57.81853 0.4890539 3 57.45257 58.37397 57.54081 57.62905  
## BLK:AftLow 48.56667 0.6429101 3 48.10000 49.30000 48.20000 48.30000  
## BRN:AftHigh 57.45656 0.6603620 3 56.78090 58.10048 57.13459 57.48829  
## BRN:AftLow 48.96667 0.6110101 3 48.30000 49.50000 48.70000 49.10000  
## WHT:AftHigh 57.67255 0.6695719 3 56.89963 58.07545 57.47110 58.04257  
## WHT:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## WT/BLK:AftHigh 59.27128 0.5519605 3 58.87344 59.90142 58.95620 59.03897  
## WT/BLK:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 58.36642 0.3918623 3 57.91516 58.62081 58.23923 58.56331  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 58.10350  
## BL/BR:AftLow 55.25000  
## BLK:AftHigh 58.00151  
## BLK:AftLow 48.80000  
## BRN:AftHigh 57.79438  
## BRN:AftLow 49.30000  
## WHT:AftHigh 58.05901  
## WHT:AftLow 50.80000  
## WT/BLK:AftHigh 59.47019  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 58.59206  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.27128 a  
## WT/BR:AftHigh 58.36642 ab  
## BL/BR:AftHigh 57.89262 ab  
## BLK:AftHigh 57.81853 ab  
## WHT:AftHigh 57.67255 abc  
## BRN:AftHigh 57.45656 abc  
## WT/BLK:AftLow 55.33333 bcd  
## BL/BR:AftLow 54.66667 cd  
## WT/BR:AftLow 53.43333 d  
## WHT:AftLow 49.63333 e  
## BRN:AftLow 48.96667 e  
## BLK:AftLow 48.56667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT81 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 54.945 10.989 8.6007 8.863e-05 \*\*\*  
## THIregime 1 187.661 187.661 146.8753 1.018e-11 \*\*\*  
## Colour:THIregime 5 77.118 15.424 12.0714 6.460e-06 \*\*\*  
## Residuals 24 30.665 1.278   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.27769   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.55409 1.219988 6 54.9 57.86289  
## BLK 53.50461 4.674293 6 49.2 59.15802  
## BRN 54.27397 2.343523 6 50.2 56.62932  
## WHT 53.87040 4.875053 6 47.3 58.68527  
## WT/BLK 55.01764 2.342625 6 51.6 57.18338  
## WT/BR 56.64491 1.002570 6 54.8 57.71479  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.017817   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.64491 a  
## BL/BR 56.55409 a  
## WT/BLK 55.01764 ab  
## BRN 54.27397 b  
## WHT 53.87040 b  
## BLK 53.50461 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.27769   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.26076 0.8811068 18 55.68062 59.15802  
## AftLow 52.69444 2.9657798 18 47.30000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7776421   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.26076 a  
## AftLow 52.69444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.27769 24 54.9776 2.056018 3.32773  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.60818 0.3429501 3 57.21823 57.86289 57.48082 57.74342  
## BL/BR:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BLK:AftHigh 57.70922 1.2554874 3 56.94032 59.15802 56.98482 57.02932  
## BLK:AftLow 49.30000 0.1000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 56.04793 0.5092911 3 55.68062 56.62932 55.75724 55.83386  
## BRN:AftLow 52.50000 2.0074860 3 50.20000 53.90000 51.80000 53.40000  
## WHT:AftHigh 58.10746 0.5137158 3 57.70235 58.68527 57.81855 57.93476  
## WHT:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## WT/BLK:AftHigh 57.03528 0.1926441 3 56.81749 57.18338 56.96123 57.10498  
## WT/BLK:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 57.05648 0.6643446 3 56.38626 57.71479 56.72732 57.06839  
## WT/BR:AftLow 56.23333 1.2503333 3 54.80000 57.10000 55.80000 56.80000  
## Q75  
## BL/BR:AftHigh 57.80315  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 58.09367  
## BLK:AftLow 49.35000  
## BRN:AftHigh 56.23159  
## BRN:AftLow 53.65000  
## WHT:AftHigh 58.31002  
## WHT:AftLow 50.80000  
## WT/BLK:AftHigh 57.14418  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 57.39159  
## WT/BR:AftLow 56.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.10746 a  
## BLK:AftHigh 57.70922 a  
## BL/BR:AftHigh 57.60818 a  
## WT/BR:AftHigh 57.05648 a  
## WT/BLK:AftHigh 57.03528 a  
## WT/BR:AftLow 56.23333 ab  
## BRN:AftHigh 56.04793 ab  
## BL/BR:AftLow 55.50000 abc  
## WT/BLK:AftLow 53.00000 bc  
## BRN:AftLow 52.50000 cd  
## WHT:AftLow 49.63333 d  
## BLK:AftLow 49.30000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT82 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 39.236 7.847 1.9589 0.12161   
## THIregime 1 208.326 208.326 52.0030 1.883e-07 \*\*\*  
## Colour:THIregime 5 69.679 13.936 3.4787 0.01663 \*   
## Residuals 24 96.145 4.006   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 4.006031   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.49765 1.258697 6 54.7 58.00477  
## BLK 54.02209 4.234240 6 50.1 58.40911  
## BRN 54.39354 3.533822 6 50.1 57.89425  
## WHT 54.59825 5.222916 6 47.3 59.21494  
## WT/BLK 56.30337 3.089630 6 50.1 58.10000  
## WT/BR 56.38526 2.450371 6 51.7 59.01283  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.572945   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.49765 a  
## WT/BR 56.38526 a  
## WT/BLK 56.30337 a  
## WHT 54.59825 a  
## BRN 54.39354 a  
## BLK 54.02209 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 4.006031   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.77228 0.823829 18 56.53001 59.21494  
## AftLow 52.96111 3.373973 18 47.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.376969   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.77228 a  
## AftLow 52.96111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.006031 24 55.36669 3.615002 5.892405  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.56196 0.3862443 3 57.29445 58.00477 57.34055 57.38665  
## BL/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## BLK:AftHigh 57.87751 0.4645978 3 57.54927 58.40911 57.61170 57.67414  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 57.32042 0.5626905 3 56.76958 57.89425 57.03350 57.29742  
## BRN:AftLow 51.46667 2.2810816 3 50.10000 54.10000 50.15000 50.20000  
## WHT:AftHigh 58.99651 0.2307143 3 58.75521 59.21494 58.88729 59.01936  
## WHT:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 57.27340 0.6915951 3 56.53001 57.89774 56.96123 57.39246  
## WT/BLK:AftLow 55.33333 4.5346812 3 50.10000 58.10000 53.95000 57.80000  
## WT/BR:AftHigh 57.60386 1.2257725 3 56.78264 59.01283 56.89938 57.01612  
## WT/BR:AftLow 55.16667 3.0088758 3 51.70000 57.10000 54.20000 56.70000  
## Q75  
## BL/BR:AftHigh 57.69571  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 58.04162  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.59584  
## BRN:AftLow 52.15000  
## WHT:AftHigh 59.11715  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 57.64510  
## WT/BLK:AftLow 57.95000  
## WT/BR:AftHigh 58.01447  
## WT/BR:AftLow 56.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 58.99651 a  
## BLK:AftHigh 57.87751 a  
## WT/BR:AftHigh 57.60386 a  
## BL/BR:AftHigh 57.56196 a  
## BRN:AftHigh 57.32042 ab  
## WT/BLK:AftHigh 57.27340 ab  
## BL/BR:AftLow 55.43333 abc  
## WT/BLK:AftLow 55.33333 abc  
## WT/BR:AftLow 55.16667 abc  
## BRN:AftLow 51.46667 bc  
## WHT:AftLow 50.20000 c  
## BLK:AftLow 50.16667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT83 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 52.59 10.52 27.578 3.277e-09 \*\*\*  
## THIregime 1 563.25 563.25 1476.966 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 60.47 12.09 31.714 7.954e-10 \*\*\*  
## Residuals 24 9.15 0.38   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.381354   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.43350 1.813845 6 54.6 58.43786  
## BLK 54.27342 5.518152 6 48.6 59.63484  
## BRN 53.46301 5.658636 6 48.1 59.62106  
## WHT 53.22462 5.530159 6 47.3 58.46922  
## WT/BLK 54.60611 4.486307 6 50.2 59.16964  
## WT/BR 56.06550 3.178758 6 53.1 59.10430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.102385   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.43350 a  
## WT/BR 56.06550 a  
## WT/BLK 54.60611 b  
## BLK 54.27342 bc  
## BRN 53.46301 c  
## WHT 53.22462 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.381354   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.63316 0.633350 18 57.5754 59.63484  
## AftLow 50.72222 2.605324 18 47.3000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4248457   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.63316 a  
## AftLow 50.72222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.381354 24 54.67769 1.129416 1.818024  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 58.06699 0.4360667 3 57.58661 58.43786 57.88156 58.17651  
## BL/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## BLK:AftHigh 59.28018 0.3143239 3 59.03606 59.63484 59.10285 59.16964  
## BLK:AftLow 49.26667 0.9073772 3 48.60000 50.30000 48.75000 48.90000  
## BRN:AftHigh 58.59269 1.0228739 3 57.57540 59.62106 58.07850 58.58160  
## BRN:AftLow 48.33333 0.2516611 3 48.10000 48.60000 48.20000 48.30000  
## WHT:AftHigh 58.21590 0.2541670 3 57.96090 58.46922 58.08924 58.21758  
## WHT:AftLow 48.23333 1.2858201 3 47.30000 49.70000 47.50000 47.70000  
## WT/BLK:AftHigh 58.67888 0.6569274 3 57.93258 59.16964 58.43350 58.93443  
## WT/BLK:AftLow 50.53333 0.3511885 3 50.20000 50.90000 50.35000 50.50000  
## WT/BR:AftHigh 58.96434 0.1954529 3 58.74103 59.10430 58.89435 59.04768  
## WT/BR:AftLow 53.16667 0.1154701 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 58.30719  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 59.40224  
## BLK:AftLow 49.60000  
## BRN:AftHigh 59.10133  
## BRN:AftLow 48.45000  
## WHT:AftHigh 58.34340  
## WHT:AftLow 48.70000  
## WT/BLK:AftHigh 59.05203  
## WT/BLK:AftLow 50.70000  
## WT/BR:AftHigh 59.07599  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 59.28018 a  
## WT/BR:AftHigh 58.96434 a  
## WT/BLK:AftHigh 58.67888 a  
## BRN:AftHigh 58.59269 a  
## WHT:AftHigh 58.21590 a  
## BL/BR:AftHigh 58.06699 a  
## BL/BR:AftLow 54.80000 b  
## WT/BR:AftLow 53.16667 b  
## WT/BLK:AftLow 50.53333 c  
## BLK:AftLow 49.26667 cd  
## BRN:AftLow 48.33333 d  
## WHT:AftLow 48.23333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT84 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 49.029 9.8058 4.5053 0.004889 \*\*  
## THIregime 1 28.448 28.4478 13.0706 0.001384 \*\*  
## Colour:THIregime 5 51.956 10.3912 4.7743 0.003606 \*\*  
## Residuals 24 52.235 2.1765   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.176474   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.64863 1.444388 6 53.90000 57.90000  
## BLK 55.94854 1.332345 6 54.30000 57.44183  
## BRN 54.67113 1.007720 6 53.87136 56.53436  
## WHT 53.46588 4.107212 6 47.30000 56.97430  
## WT/BLK 56.73281 1.695733 6 54.09945 58.30000  
## WT/BR 56.09999 1.380649 6 54.60000 58.35946  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.633576   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.73281 a  
## BL/BR 56.64863 a  
## WT/BR 56.09999 a  
## BLK 55.94854 ab  
## BRN 54.67113 ab  
## WHT 53.46588 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.176474   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.48344 1.252070 18 53.87136 58.35946  
## AftLow 54.70556 2.728601 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.014948   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.48344 a  
## AftLow 54.70556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.176474 24 55.5945 2.653658 4.343223  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 56.96393 0.5950390 3 56.37693 57.56669 56.66255 56.94817  
## BL/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## BLK:AftHigh 57.13042 0.2721036 3 56.93854 57.44183 56.97471 57.01089  
## BLK:AftLow 54.76667 0.4163332 3 54.30000 55.10000 54.60000 54.90000  
## BRN:AftHigh 54.80892 1.4961462 3 53.87136 56.53436 53.94620 54.02105  
## BRN:AftLow 54.53333 0.4932883 3 54.20000 55.10000 54.25000 54.30000  
## WHT:AftHigh 56.73175 0.2552050 3 56.46554 56.97430 56.61048 56.75542  
## WHT:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 56.19896 1.8521462 3 54.09945 57.60154 55.49767 56.89590  
## WT/BLK:AftLow 57.26667 1.7039171 3 55.30000 58.30000 56.75000 58.20000  
## WT/BR:AftHigh 57.06664 1.1219964 3 56.34706 58.35946 56.42024 56.49342  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.25743  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 57.22636  
## BLK:AftLow 55.00000  
## BRN:AftHigh 55.27770  
## BRN:AftLow 54.70000  
## WHT:AftHigh 56.86486  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 57.24872  
## WT/BLK:AftLow 58.25000  
## WT/BR:AftHigh 57.42644  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftLow 57.26667 a  
## BLK:AftHigh 57.13042 a  
## WT/BR:AftHigh 57.06664 a  
## BL/BR:AftHigh 56.96393 a  
## WHT:AftHigh 56.73175 a  
## BL/BR:AftLow 56.33333 a  
## WT/BLK:AftHigh 56.19896 a  
## WT/BR:AftLow 55.13333 a  
## BRN:AftHigh 54.80892 a  
## BLK:AftLow 54.76667 a  
## BRN:AftLow 54.53333 ab  
## WHT:AftLow 50.20000 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT85 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 76.622 15.324 15.889 6.148e-07 \*\*\*  
## THIregime 1 127.535 127.535 132.229 3.006e-11 \*\*\*  
## Colour:THIregime 5 113.758 22.752 23.589 1.535e-08 \*\*\*  
## Residuals 24 23.148 0.964   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9644995   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.66823 2.0383347 6 53.10000 57.56420  
## BLK 53.55157 4.7520916 6 49.20000 59.52177  
## BRN 54.20885 0.5237886 6 53.40000 54.93577  
## WHT 53.80999 4.7569567 6 47.30000 58.34029  
## WT/BLK 57.06298 0.4178600 6 56.66068 57.60000  
## WT/BR 57.05819 1.7531067 6 54.30000 58.60338  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.753154   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.06298 a  
## WT/BR 57.05819 a  
## BL/BR 55.66823 ab  
## BRN 54.20885 bc  
## WHT 53.80999 c  
## BLK 53.55157 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9644995   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.10882 1.488068 18 53.89908 59.52177  
## AftLow 53.34444 3.216542 18 47.30000 57.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6756442   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.10882 a  
## AftLow 53.34444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9644995 24 55.22663 1.778289 2.891255  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.46979 0.08243713 3 57.41206 57.56420 57.42259 57.43311  
## BL/BR:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BLK:AftHigh 57.80313 1.48946589 3 56.88718 59.52177 56.94381 57.00044  
## BLK:AftLow 49.30000 0.10000000 3 49.20000 49.40000 49.25000 49.30000  
## BRN:AftHigh 54.35103 0.53094722 3 53.89908 54.93577 54.05866 54.21825  
## BRN:AftLow 54.06667 0.58594653 3 53.40000 54.50000 53.85000 54.30000  
## WHT:AftHigh 57.91997 0.36828833 3 57.65381 58.34029 57.70981 57.76582  
## WHT:AftLow 49.70000 2.40000000 3 47.30000 52.10000 48.50000 49.70000  
## WT/BLK:AftHigh 56.69262 0.04116973 3 56.66068 56.73909 56.66939 56.67810  
## WT/BLK:AftLow 57.43333 0.15275252 3 57.30000 57.60000 57.35000 57.40000  
## WT/BR:AftHigh 58.41637 0.19862855 3 58.20787 58.60338 58.32287 58.43786  
## WT/BR:AftLow 55.70000 1.45258390 3 54.30000 57.20000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 57.49866  
## BL/BR:AftLow 54.25000  
## BLK:AftHigh 58.26110  
## BLK:AftLow 49.35000  
## BRN:AftHigh 54.57701  
## BRN:AftLow 54.40000  
## WHT:AftHigh 58.05305  
## WHT:AftLow 50.90000  
## WT/BLK:AftHigh 56.70859  
## WT/BLK:AftLow 57.50000  
## WT/BR:AftHigh 58.52062  
## WT/BR:AftLow 56.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.41637 a  
## WHT:AftHigh 57.91997 a  
## BLK:AftHigh 57.80313 a  
## BL/BR:AftHigh 57.46979 a  
## WT/BLK:AftLow 57.43333 a  
## WT/BLK:AftHigh 56.69262 ab  
## WT/BR:AftLow 55.70000 ab  
## BRN:AftHigh 54.35103 b  
## BRN:AftLow 54.06667 b  
## BL/BR:AftLow 53.86667 b  
## WHT:AftLow 49.70000 c  
## BLK:AftLow 49.30000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT86 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 79.836 15.967 13.079 3.318e-06 \*\*\*  
## THIregime 1 129.752 129.752 106.282 2.702e-10 \*\*\*  
## Colour:THIregime 5 145.803 29.161 23.886 1.359e-08 \*\*\*  
## Residuals 24 29.300 1.221   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.220826   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.67147 0.3546142 6 57.10000 58.10000  
## BLK 53.91705 4.1259588 6 50.10000 58.34116  
## BRN 55.78078 1.4153551 6 54.20000 57.25133  
## WHT 53.59676 5.5725890 6 47.30000 59.01980  
## WT/BLK 56.75075 1.4153974 6 54.02976 58.20000  
## WT/BR 56.54072 2.9599584 6 51.50000 58.89087  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.972405   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.67147 a  
## WT/BLK 56.75075 a  
## WT/BR 56.54072 a  
## BRN 55.78078 ab  
## BLK 53.91705 bc  
## WHT 53.59676 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.220826   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.60807 1.161178 18 54.02976 59.0198  
## AftLow 53.81111 3.694334 18 47.30000 58.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7601408   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.60807 a  
## AftLow 53.81111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.220826 24 55.70959 1.983339 3.252838  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.67628 0.2257774 3 57.45054 57.90209 57.56337 57.67621  
## BL/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BLK:AftHigh 57.66743 0.5911388 3 57.23565 58.34116 57.33056 57.42547  
## BLK:AftLow 50.16667 0.1154701 3 50.10000 50.30000 50.10000 50.10000  
## BRN:AftHigh 57.02823 0.3103993 3 56.67375 57.25133 56.91668 57.15962  
## BRN:AftLow 54.53333 0.4932883 3 54.20000 55.10000 54.25000 54.30000  
## WHT:AftHigh 58.62686 0.5247799 3 58.03090 59.01980 58.43039 58.82989  
## WHT:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## WT/BLK:AftHigh 56.00150 1.7187907 3 54.02976 57.18338 55.41056 56.79136  
## WT/BLK:AftLow 57.50000 0.6082763 3 57.10000 58.20000 57.15000 57.20000  
## WT/BR:AftHigh 58.64810 0.4084697 3 58.17651 58.89087 58.52672 58.87693  
## WT/BR:AftLow 54.43333 2.9005747 3 51.50000 57.30000 53.00000 54.50000  
## Q75  
## BL/BR:AftHigh 57.78915  
## BL/BR:AftLow 57.95000  
## BLK:AftHigh 57.88332  
## BLK:AftLow 50.20000  
## BRN:AftHigh 57.20548  
## BRN:AftLow 54.70000  
## WHT:AftHigh 58.92484  
## WHT:AftLow 49.20000  
## WT/BLK:AftHigh 56.98737  
## WT/BLK:AftLow 57.70000  
## WT/BR:AftHigh 58.88390  
## WT/BR:AftLow 55.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.64810 a  
## WHT:AftHigh 58.62686 a  
## BL/BR:AftHigh 57.67628 ab  
## BLK:AftHigh 57.66743 ab  
## BL/BR:AftLow 57.66667 ab  
## WT/BLK:AftLow 57.50000 ab  
## BRN:AftHigh 57.02823 ab  
## WT/BLK:AftHigh 56.00150 ab  
## BRN:AftLow 54.53333 b  
## WT/BR:AftLow 54.43333 b  
## BLK:AftLow 50.16667 c  
## WHT:AftLow 48.56667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT87 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 72.204 14.441 7.1199 0.0003286 \*\*\*  
## THIregime 1 265.380 265.380 130.8415 3.348e-11 \*\*\*  
## Colour:THIregime 5 45.128 9.026 4.4499 0.0052092 \*\*   
## Residuals 24 48.678 2.028   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.028255   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.54397 1.360744 6 54.8 57.68648  
## BLK 54.75368 3.623584 6 49.4 58.25782  
## BRN 53.79589 4.247494 6 49.4 58.07720  
## WHT 54.24363 4.892527 6 47.3 59.20698  
## WT/BLK 57.64249 3.061268 6 54.6 60.73774  
## WT/BR 56.67748 2.346450 6 53.1 58.45093  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.542321   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 57.64249 a  
## WT/BR 56.67748 ab  
## BL/BR 56.54397 ab  
## BLK 54.75368 bc  
## WHT 54.24363 bc  
## BRN 53.79589 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.028255   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.32460 1.068290 18 57.32712 60.73774  
## AftLow 52.89444 2.936679 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9797794   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.32460 a  
## AftLow 52.89444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.028255 24 55.60952 2.561015 4.192728  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.62128 0.06293433 3 57.56089 57.68648 57.58868 57.61647  
## BL/BR:AftLow 55.46667 1.06926766 3 54.80000 56.70000 54.85000 54.90000  
## BLK:AftHigh 57.84070 0.47278757 3 57.32712 58.25782 57.63215 57.93717  
## BLK:AftLow 51.66667 2.00333056 3 49.40000 53.20000 50.90000 52.40000  
## BRN:AftHigh 57.65846 0.36266631 3 57.44473 58.07720 57.44909 57.45344  
## BRN:AftLow 49.93333 0.46188022 3 49.40000 50.20000 49.80000 50.20000  
## WHT:AftHigh 58.28725 0.82421196 3 57.61548 59.20698 57.82739 58.03930  
## WHT:AftLow 50.20000 3.17962262 3 47.30000 53.60000 48.50000 49.70000  
## WT/BLK:AftHigh 60.41831 0.41169730 3 59.95369 60.73774 60.25860 60.56351  
## WT/BLK:AftLow 54.86667 0.37859389 3 54.60000 55.30000 54.65000 54.70000  
## WT/BR:AftHigh 58.12163 0.30749469 3 57.84198 58.45093 57.95698 58.07197  
## WT/BR:AftLow 55.23333 2.72274371 3 53.10000 58.30000 53.70000 54.30000  
## Q75  
## BL/BR:AftHigh 57.65148  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 58.09749  
## BLK:AftLow 52.80000  
## BRN:AftHigh 57.76532  
## BRN:AftLow 50.20000  
## WHT:AftHigh 58.62314  
## WHT:AftLow 51.65000  
## WT/BLK:AftHigh 60.65062  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 58.26145  
## WT/BR:AftLow 56.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.41831 a  
## WHT:AftHigh 58.28725 ab  
## WT/BR:AftHigh 58.12163 ab  
## BLK:AftHigh 57.84070 ab  
## BRN:AftHigh 57.65846 ab  
## BL/BR:AftHigh 57.62128 ab  
## BL/BR:AftLow 55.46667 bc  
## WT/BR:AftLow 55.23333 bc  
## WT/BLK:AftLow 54.86667 bc  
## BLK:AftLow 51.66667 cd  
## WHT:AftLow 50.20000 d  
## BRN:AftLow 49.93333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT88 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 68.807 13.761 12.827 3.905e-06 \*\*\*  
## THIregime 1 119.475 119.475 111.366 1.701e-10 \*\*\*  
## Colour:THIregime 5 77.387 15.477 14.427 1.435e-06 \*\*\*  
## Residuals 24 25.748 1.073   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.072814   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.68766 0.8860492 6 54.89843 57.29373  
## BLK 55.51348 1.3318326 6 53.30000 57.00566  
## BRN 55.96506 2.0301502 6 53.20000 57.92039  
## WHT 53.73640 5.3478383 6 47.30000 59.13697  
## WT/BLK 58.39042 1.8783735 6 55.10000 59.77946  
## WT/BR 55.17075 2.3903670 6 51.40000 57.43166  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.848976   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 58.39042 a  
## BRN 55.96506 b  
## BL/BR 55.68766 b  
## BLK 55.51348 bc  
## WT/BR 55.17075 bc  
## WHT 53.73640 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.072814   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.56570 1.456233 18 54.89843 59.77946  
## AftLow 53.92222 2.827295 18 47.30000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7125727   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.56570 a  
## AftLow 53.92222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.072814 24 55.74396 1.858079 3.049282  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 55.74198 1.34555622 3 54.89843 57.29373 54.96611 55.03378  
## BL/BR:AftLow 55.63333 0.37859389 3 55.20000 55.90000 55.50000 55.80000  
## BLK:AftHigh 56.52696 0.52251798 3 55.96955 57.00566 56.28761 56.60566  
## BLK:AftLow 54.50000 1.03923048 3 53.30000 55.10000 54.20000 55.10000  
## BRN:AftHigh 57.73013 0.21774717 3 57.49264 57.92039 57.63500 57.77736  
## BRN:AftLow 54.20000 0.95393920 3 53.20000 55.10000 53.75000 54.30000  
## WHT:AftHigh 58.53948 0.53537697 3 58.10333 59.13697 58.24073 58.37812  
## WHT:AftLow 48.93333 1.41539158 3 47.30000 49.80000 48.50000 49.70000  
## WT/BLK:AftHigh 59.74751 0.04798012 3 59.69234 59.77946 59.73154 59.77075  
## WT/BLK:AftLow 57.03333 1.81475435 3 55.10000 58.70000 56.20000 57.30000  
## WT/BR:AftHigh 57.10817 0.28379226 3 56.90112 57.43166 56.94642 56.99172  
## WT/BR:AftLow 53.23333 1.71561456 3 51.40000 54.80000 52.45000 53.50000  
## Q75  
## BL/BR:AftHigh 56.16375  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 56.80566  
## BLK:AftLow 55.10000  
## BRN:AftHigh 57.84887  
## BRN:AftLow 54.70000  
## WHT:AftHigh 58.75755  
## WHT:AftLow 49.75000  
## WT/BLK:AftHigh 59.77510  
## WT/BLK:AftLow 58.00000  
## WT/BR:AftHigh 57.21169  
## WT/BR:AftLow 54.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 59.74751 a  
## WHT:AftHigh 58.53948 ab  
## BRN:AftHigh 57.73013 ab  
## WT/BR:AftHigh 57.10817 abc  
## WT/BLK:AftLow 57.03333 abc  
## BLK:AftHigh 56.52696 bc  
## BL/BR:AftHigh 55.74198 bcd  
## BL/BR:AftLow 55.63333 bcd  
## BLK:AftLow 54.50000 cd  
## BRN:AftLow 54.20000 cd  
## WT/BR:AftLow 53.23333 d  
## WHT:AftLow 48.93333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT89 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 48.095 9.619 2.7037 0.0448171 \*   
## THIregime 1 179.393 179.393 50.4245 2.433e-07 \*\*\*  
## Colour:THIregime 5 115.381 23.076 6.4864 0.0006017 \*\*\*  
## Residuals 24 85.384 3.558   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.55766   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.97777 2.435247 6 53.70000 60.34572  
## BLK 54.48154 3.553264 6 50.20000 58.81159  
## BRN 53.92190 5.551450 6 48.10000 59.20013  
## WHT 53.80248 4.452232 6 47.30000 57.76955  
## WT/BLK 55.50519 1.954712 6 52.37454 57.96743  
## WT/BR 57.00490 1.736001 6 53.60000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.367064   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 57.00490 a  
## BL/BR 55.97777 a  
## WT/BLK 55.50519 a  
## BLK 54.48154 a  
## BRN 53.92190 a  
## WHT 53.80248 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.55766   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.34792 1.812294 18 52.37454 60.34572  
## AftLow 52.88333 3.369631 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.297625   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.34792 a  
## AftLow 52.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.55766 24 55.11563 3.422216 5.552872  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.35554 2.7930859 3 54.81381 60.34572 55.86045 56.90710  
## BL/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## BLK:AftHigh 57.36308 1.2547521 3 56.61116 58.81159 56.63882 56.66649  
## BLK:AftLow 51.60000 2.2538855 3 50.20000 54.20000 50.30000 50.40000  
## BRN:AftHigh 58.94380 0.3132148 3 58.59467 59.20013 58.81563 59.03659  
## BRN:AftLow 48.90000 1.1357817 3 48.10000 50.20000 48.25000 48.40000  
## WHT:AftHigh 57.43830 0.3537001 3 57.06577 57.76955 57.27267 57.47958  
## WHT:AftLow 50.16667 3.1262331 3 47.30000 53.50000 48.50000 49.70000  
## WT/BLK:AftHigh 55.31037 2.8068471 3 52.37454 57.96743 53.98184 55.58915  
## WT/BLK:AftLow 55.70000 1.2489996 3 54.30000 56.70000 55.20000 56.10000  
## WT/BR:AftHigh 57.67646 0.4668250 3 57.15725 58.06152 57.48393 57.81062  
## WT/BR:AftLow 56.33333 2.4419937 3 53.60000 58.30000 55.35000 57.10000  
## Q75  
## BL/BR:AftHigh 58.62641  
## BL/BR:AftLow 55.05000  
## BLK:AftHigh 57.73904  
## BLK:AftLow 52.30000  
## BRN:AftHigh 59.11836  
## BRN:AftLow 49.30000  
## WHT:AftHigh 57.62456  
## WHT:AftLow 51.60000  
## WT/BLK:AftHigh 56.77829  
## WT/BLK:AftLow 56.40000  
## WT/BR:AftHigh 57.93607  
## WT/BR:AftLow 57.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.94380 a  
## WT/BR:AftHigh 57.67646 a  
## WHT:AftHigh 57.43830 a  
## BLK:AftHigh 57.36308 a  
## BL/BR:AftHigh 57.35554 a  
## WT/BR:AftLow 56.33333 ab  
## WT/BLK:AftLow 55.70000 abc  
## WT/BLK:AftHigh 55.31037 abc  
## BL/BR:AftLow 54.60000 abc  
## BLK:AftLow 51.60000 bcd  
## WHT:AftLow 50.16667 cd  
## BRN:AftLow 48.90000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT90 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 40.593 8.119 3.5335 0.015542 \*   
## THIregime 1 72.370 72.370 31.4978 8.904e-06 \*\*\*  
## Colour:THIregime 5 48.985 9.797 4.2640 0.006461 \*\*   
## Residuals 24 55.143 2.298   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.297627   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.39080 0.9864611 6 54.8 57.42980  
## BLK 54.94126 4.5979141 6 49.3 59.54860  
## BRN 53.73231 1.9090133 6 49.9 55.10000  
## WHT 56.48129 1.1815995 6 55.1 57.62593  
## WT/BLK 56.13940 2.5530412 6 52.4 59.79688  
## WT/BR 56.72200 1.2756372 6 54.3 57.65381  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.705882   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.72200 a  
## WHT 56.48129 a  
## BL/BR 56.39080 ab  
## WT/BLK 56.13940 ab  
## BLK 54.94126 ab  
## BRN 53.73231 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.297627   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.15235 1.541897 18 54.23013 59.79688  
## AftLow 54.31667 2.477012 18 49.30000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.042814   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.15235 a  
## AftLow 54.31667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.297627 24 55.73451 2.719666 4.462469  
##   
## $parameters  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
##   
## $means  
## data2[[i]] std r Min Max Q25 Q50  
## BL/BR:AftHigh 57.08161 0.3018908 3 56.89299 57.42980 56.90751 56.92203  
## BL/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## BLK:AftHigh 58.81585 0.6413460 3 58.35655 59.54860 58.44948 58.54240  
## BLK:AftLow 51.06667 2.7209067 3 49.30000 54.20000 49.50000 49.70000  
## BRN:AftHigh 54.43129 0.1783093 3 54.23013 54.56988 54.36199 54.49385  
## BRN:AftLow 53.03333 2.7592269 3 49.90000 55.10000 52.00000 54.10000  
## WHT:AftHigh 57.52924 0.1499354 3 57.35652 57.62593 57.48090 57.60527  
## WHT:AftLow 55.43333 0.4163332 3 55.10000 55.90000 55.20000 55.30000  
## WT/BLK:AftHigh 57.84547 1.7028579 3 56.66068 59.79688 56.86976 57.07884  
## WT/BLK:AftLow 54.43333 2.1594752 3 52.40000 56.70000 53.30000 54.20000  
## WT/BR:AftHigh 57.21068 0.7405354 3 56.35577 57.65381 56.98911 57.62245  
## WT/BR:AftLow 56.23333 1.6743158 3 54.30000 57.20000 55.75000 57.20000  
## Q75  
## BL/BR:AftHigh 57.17591  
## BL/BR:AftLow 56.15000  
## BLK:AftHigh 59.04550  
## BLK:AftLow 51.95000  
## BRN:AftHigh 54.53187  
## BRN:AftLow 54.60000  
## WHT:AftHigh 57.61560  
## WHT:AftLow 55.60000  
## WT/BLK:AftHigh 58.43786  
## WT/BLK:AftLow 55.45000  
## WT/BR:AftHigh 57.63813  
## WT/BR:AftLow 57.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.81585 a  
## WT/BLK:AftHigh 57.84547 a  
## WHT:AftHigh 57.52924 a  
## WT/BR:AftHigh 57.21068 ab  
## BL/BR:AftHigh 57.08161 ab  
## WT/BR:AftLow 56.23333 ab  
## BL/BR:AftLow 55.70000 ab  
## WHT:AftLow 55.43333 abc  
## WT/BLK:AftLow 54.43333 abc  
## BRN:AftHigh 54.43129 abc  
## BRN:AftLow 53.03333 bc  
## BLK:AftLow 51.06667 c  
##   
## attr(,"class")  
## [1] "group"

# Rectal Temperature (Sheet three)

# Fit the Third model for Rectal Temperature

## [1] "---- RECTEM3 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 103.859 20.772 19.5827 9.095e-08 \*\*\*  
## THIregime 1 53.916 53.916 50.8303 2.277e-07 \*\*\*  
## Colour:THIregime 5 8.754 1.751 1.6505 0.185   
## Residuals 24 25.457 1.061   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.060715   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.41564 1.5628137 6 51.3 55.35974  
## BLK 50.86706 2.2089383 6 48.4 53.40832  
## BRN 51.59736 1.8313530 6 49.3 53.45320  
## WHT 56.22127 0.4682814 6 55.5 56.65371  
## WT/BLK 53.43040 1.9900194 6 50.1 55.51074  
## WT/BR 53.47772 1.6644348 6 51.4 55.60221  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.838521   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WHT 56.22127 a  
## WT/BR 53.47772 b  
## WT/BLK 53.43040 bc  
## BL/BR 53.41564 bc  
## BRN 51.59736 cd  
## BLK 50.86706 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.060715   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.39204 1.446802 18 52.37454 56.65371  
## AftLow 51.94444 2.455300 18 48.40000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7085434   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.39204 a  
## AftLow 51.94444 b  
## data1[[i]] groups  
## WHT:AftHigh 56.60920 a  
## WHT:AftLow 55.83333 ab  
## WT/BR:AftHigh 54.75544 abc  
## BL/BR:AftHigh 54.59795 abc  
## WT/BLK:AftHigh 54.36080 abc  
## BRN:AftHigh 53.22805 bc  
## BLK:AftHigh 52.80080 cd  
## WT/BLK:AftLow 52.50000 cd  
## BL/BR:AftLow 52.23333 cd  
## WT/BR:AftLow 52.20000 cd  
## BRN:AftLow 49.96667 de  
## BLK:AftLow 48.93333 e  
## [1] "---- RECTEM4 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.443 51.089 88.6751 1.133e-14 \*\*\*  
## THIregime 1 96.998 96.998 168.3595 2.438e-12 \*\*\*  
## Colour:THIregime 5 12.109 2.422 4.2037 0.006932 \*\*   
## Residuals 24 13.827 0.576   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5761336   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.85781 1.739405 6 53.6 57.70608  
## BLK 53.51049 2.113875 6 50.1 55.82711  
## BRN 50.50139 3.016556 6 47.2 53.88514  
## WHT 56.00916 1.087497 6 54.3 57.19831  
## WT/BLK 59.27519 1.459383 6 57.3 60.84228  
## WT/BR 55.36135 2.163514 6 52.6 57.44473  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.354973   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 59.27519 a  
## WHT 56.00916 b  
## BL/BR 55.85781 b  
## WT/BR 55.36135 b  
## BLK 53.51049 c  
## BRN 50.50139 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5761336   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.72736 2.353416 18 52.58362 60.84228  
## AftLow 53.44444 3.318615 18 47.20000 58.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5221902   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.72736 a  
## AftLow 53.44444 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.51704 a  
## WT/BLK:AftLow 58.03333 b  
## BL/BR:AftHigh 57.38230 bc  
## WT/BR:AftHigh 57.28937 bcd  
## WHT:AftHigh 56.85165 bcd  
## WHT:AftLow 55.16667 cde  
## BLK:AftHigh 55.12099 de  
## BL/BR:AftLow 54.33333 e  
## WT/BR:AftLow 53.43333 ef  
## BRN:AftHigh 53.20278 ef  
## BLK:AftLow 51.90000 f  
## BRN:AftLow 47.80000 g  
## [1] "---- RECTEM5 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 179.798 35.960 19.829 8.088e-08 \*\*\*  
## THIregime 1 86.312 86.312 47.595 3.907e-07 \*\*\*  
## Colour:THIregime 5 10.282 2.056 1.134 0.3696   
## Residuals 24 43.523 1.813   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.813469   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.43148 1.2452556 6 53.7 56.73255  
## BLK 51.49161 2.1785022 6 49.2 53.84391  
## BRN 50.46921 2.7057409 6 47.3 53.72833  
## WHT 55.65520 0.9700093 6 54.2 56.86323  
## WT/BLK 56.53826 3.1295072 6 53.1 61.15590  
## WT/BR 53.80467 1.9160437 6 51.3 56.01602  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.403944   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.53826 a  
## WHT 55.65520 ab  
## BL/BR 55.43148 ab  
## WT/BR 53.80467 bc  
## BLK 51.49161 cd  
## BRN 50.46921 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.813469   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.44681 2.13567 18 52.11755 61.1559  
## AftLow 52.35000 3.02990 18 47.30000 58.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9264503   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.44681 a  
## AftLow 52.35000 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.17651 a  
## BL/BR:AftHigh 56.49630 ab  
## WHT:AftHigh 56.37707 ab  
## WT/BR:AftHigh 55.37600 abc  
## WHT:AftLow 54.93333 abc  
## WT/BLK:AftLow 54.90000 abc  
## BL/BR:AftLow 54.36667 abc  
## BLK:AftHigh 53.44989 bcd  
## BRN:AftHigh 52.80508 bcd  
## WT/BR:AftLow 52.23333 cd  
## BLK:AftLow 49.53333 de  
## BRN:AftLow 48.13333 e  
## [1] "---- RECTEM6 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 121.566 24.313 9.4527 4.419e-05 \*\*\*  
## THIregime 1 62.102 62.102 24.1445 5.174e-05 \*\*\*  
## Colour:THIregime 5 9.458 1.892 0.7354 0.6042   
## Residuals 24 61.730 2.572   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.572102   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.94221 2.177068 6 50.4 55.72729  
## BLK 54.86601 1.013280 6 53.2 56.07787  
## BRN 53.75786 2.068207 6 50.1 55.91940  
## WHT 49.87439 2.702867 6 46.1 52.99198  
## WT/BLK 54.49654 2.743979 6 50.1 57.07884  
## WT/BR 55.47682 1.333924 6 53.6 56.83056  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.862947   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.47682 a  
## BLK 54.86601 a  
## WT/BLK 54.49654 a  
## BRN 53.75786 a  
## BL/BR 52.94221 a  
## WHT 49.87439 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.572102   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.88238 1.803759 18 51.34781 57.07884  
## AftLow 52.25556 2.843408 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.103345   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.88238 a  
## AftLow 52.25556 b  
## data1[[i]] groups  
## WT/BR:AftHigh 56.62032 a  
## BLK:AftHigh 55.53202 ab  
## WT/BLK:AftHigh 55.35974 ab  
## BRN:AftHigh 55.04905 ab  
## BL/BR:AftHigh 54.68441 ab  
## WT/BR:AftLow 54.33333 ab  
## BLK:AftLow 54.20000 ab  
## WT/BLK:AftLow 53.63333 ab  
## BRN:AftLow 52.46667 ab  
## WHT:AftHigh 52.04878 abc  
## BL/BR:AftLow 51.20000 bc  
## WHT:AftLow 47.70000 c  
## [1] "---- RECTEM7 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.593 62.919 21.4684 3.810e-08 \*\*\*  
## THIregime 1 117.831 117.831 40.2051 1.483e-06 \*\*\*  
## Colour:THIregime 5 9.638 1.928 0.6577 0.6587   
## Residuals 24 70.338 2.931   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.930751   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.94876 2.824347 6 50.1 58.11771  
## BLK 50.76966 2.212249 6 48.1 53.41994  
## BRN 50.93486 2.987549 6 47.4 54.66397  
## WHT 50.02817 2.850119 6 46.1 53.27946  
## WT/BLK 57.76046 2.522362 6 53.6 60.38927  
## WT/BR 55.97975 1.810948 6 53.7 57.81062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.056037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.76046 a  
## WT/BR 55.97975 a  
## BL/BR 54.94876 a  
## BRN 50.93486 b  
## BLK 50.76966 b  
## WHT 50.02817 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.930751   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.21278 2.802516 18 51.67636 60.38927  
## AftLow 51.59444 3.918654 18 46.10000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.177759   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.21278 a  
## AftLow 51.59444 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.68759 a  
## WT/BR:AftHigh 57.59283 ab  
## WT/BLK:AftLow 56.83333 abc  
## BL/BR:AftHigh 56.56419 abc  
## WT/BR:AftLow 54.36667 abc  
## BRN:AftHigh 53.43639 bcd  
## BL/BR:AftLow 53.33333 bcd  
## BLK:AftHigh 52.63933 bcde  
## WHT:AftHigh 52.35634 cde  
## BLK:AftLow 48.90000 de  
## BRN:AftLow 48.43333 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM8 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 134.805 26.961 16.978 3.389e-07 \*\*\*  
## THIregime 1 57.705 57.705 36.338 3.180e-06 \*\*\*  
## Colour:THIregime 5 10.727 2.145 1.351 0.2774   
## Residuals 24 38.112 1.588   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.588008   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.49482 1.2152375 6 54.2 56.75869  
## BLK 54.06831 2.2864595 6 49.9 56.24775  
## BRN 55.11125 1.4018261 6 53.4 56.59273  
## WHT 50.15050 2.9689028 6 46.1 53.50815  
## WT/BLK 53.26506 1.7196982 6 50.5 55.45847  
## WT/BR 55.90648 0.9313605 6 54.7 56.97430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.24955   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.90648 a  
## BL/BR 55.49482 ab  
## BRN 55.11125 ab  
## BLK 54.06831 ab  
## WT/BLK 53.26506 b  
## WHT 50.15050 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.588008   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.26547 1.705086 18 51.93771 56.9743  
## AftLow 52.73333 2.809857 18 46.10000 55.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8669488   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.26547 a  
## AftLow 52.73333 b  
## data1[[i]] groups  
## WT/BR:AftHigh 56.71295 a  
## BL/BR:AftHigh 56.58964 a  
## BRN:AftHigh 56.35582 a  
## BLK:AftHigh 55.10329 ab  
## WT/BR:AftLow 55.10000 ab  
## BL/BR:AftLow 54.40000 ab  
## WT/BLK:AftHigh 54.23013 ab  
## BRN:AftLow 53.86667 ab  
## BLK:AftLow 53.03333 ab  
## WHT:AftHigh 52.60099 b  
## WT/BLK:AftLow 52.30000 b  
## WHT:AftLow 47.70000 c  
## [1] "---- RECTEM9 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 250.209 50.042 64.9230 3.725e-13 \*\*\*  
## THIregime 1 73.351 73.351 95.1632 7.959e-10 \*\*\*  
## Colour:THIregime 5 14.931 2.986 3.8741 0.01025 \*   
## Residuals 24 18.499 0.771   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.770787   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.02255 1.0388169 6 55.7 58.22131  
## BLK 51.43327 1.7845667 6 49.1 53.23562  
## BRN 51.43914 2.7031520 6 47.3 54.13746  
## WHT 49.91633 2.7427781 6 46.1 53.07038  
## WT/BLK 52.77132 1.2990393 6 51.3 54.04718  
## WT/BR 56.34856 0.7581888 6 55.3 57.27921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.567243   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.02255 a  
## WT/BR 56.34856 a  
## WT/BLK 52.77132 b  
## BRN 51.43914 bc  
## BLK 51.43327 bc  
## WHT 49.91633 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.770787   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58261 2.177456 18 51.43741 58.22131  
## AftLow 51.72778 3.455908 18 46.10000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6039963   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58261 a  
## AftLow 51.72778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.81176 a  
## WT/BR:AftHigh 56.93045 a  
## BL/BR:AftLow 56.23333 ab  
## WT/BR:AftLow 55.76667 ab  
## WT/BLK:AftHigh 53.94264 bc  
## BRN:AftHigh 53.67828 bc  
## BLK:AftHigh 52.99987 c  
## WHT:AftHigh 52.13266 cd  
## WT/BLK:AftLow 51.60000 cde  
## BLK:AftLow 49.86667 def  
## BRN:AftLow 49.20000 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM10 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 367.68 73.537 101.9998 2.312e-15 \*\*\*  
## THIregime 1 103.82 103.824 144.0096 1.249e-11 \*\*\*  
## Colour:THIregime 5 15.62 3.125 4.3342 0.005954 \*\*   
## Residuals 24 17.30 0.721   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7209498   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.32780 0.793602 6 57.3 59.25676  
## BLK 50.74186 2.055922 6 48.3 52.81884  
## BRN 50.93183 2.932065 6 48.1 53.79628  
## WHT 50.01419 2.836632 6 46.1 53.25333  
## WT/BLK 56.35954 1.530078 6 54.6 58.22878  
## WT/BR 55.38084 1.873175 6 52.7 57.67123  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.515729   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.32780 a  
## WT/BLK 56.35954 b  
## WT/BR 55.38084 b  
## BRN 50.93183 c  
## BLK 50.74186 c  
## WHT 50.01419 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7209498   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.32424 2.722609 18 51.64649 59.25676  
## AftLow 51.92778 4.019044 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5841435   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.32424 a  
## AftLow 51.92778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.02227 a  
## WT/BLK:AftHigh 57.68575 a  
## BL/BR:AftLow 57.63333 a  
## WT/BR:AftHigh 56.72834 ab  
## WT/BLK:AftLow 55.03333 bc  
## WT/BR:AftLow 54.03333 cd  
## BRN:AftHigh 53.59700 cd  
## BLK:AftHigh 52.58371 cd  
## WHT:AftHigh 52.32838 d  
## BLK:AftLow 48.90000 e  
## BRN:AftLow 48.26667 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM11 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.315 44.263 21.3885 3.948e-08 \*\*\*  
## THIregime 1 97.512 97.512 47.1189 4.239e-07 \*\*\*  
## Colour:THIregime 5 9.947 1.989 0.9613 0.4608   
## Residuals 24 49.667 2.069   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.069477   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.08529 1.249006 6 54.6 57.51007  
## BLK 50.52387 2.107239 6 48.2 52.80432  
## BRN 51.71392 3.655724 6 47.3 56.48819  
## WHT 50.02293 2.845059 6 46.1 53.26966  
## WT/BLK 55.23009 1.365274 6 53.7 56.90461  
## WT/BR 55.43202 1.449848 6 53.2 57.00915  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.568027   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.08529 a  
## WT/BR 55.43202 a  
## WT/BLK 55.23009 a  
## BRN 51.71392 b  
## BLK 50.52387 b  
## WHT 50.02293 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.069477   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.81382 2.221004 18 51.66516 57.51007  
## AftLow 51.52222 3.404764 18 46.10000 55.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9896859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.81382 a  
## AftLow 51.52222 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.17059 a  
## WT/BR:AftHigh 56.59738 ab  
## WT/BLK:AftHigh 56.39352 abc  
## BL/BR:AftLow 55.00000 abc  
## WT/BR:AftLow 54.26667 abc  
## WT/BLK:AftLow 54.06667 abc  
## BRN:AftHigh 53.96117 abc  
## BLK:AftHigh 52.41440 bcd  
## WHT:AftHigh 52.34585 cd  
## BRN:AftLow 49.46667 de  
## BLK:AftLow 48.63333 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM12 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 197.008 39.402 25.1202 8.288e-09 \*\*\*  
## THIregime 1 73.464 73.464 46.8364 4.450e-07 \*\*\*  
## Colour:THIregime 5 11.828 2.366 1.5082 0.2245   
## Residuals 24 37.645 1.569   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.568521   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.72100 0.9436448 6 56.1 58.68179  
## BLK 52.40498 1.7543844 6 50.1 54.17923  
## BRN 54.82030 1.7283418 6 52.4 56.74780  
## WHT 50.11205 2.9314254 6 46.1 53.43627  
## WT/BLK 54.51893 2.7342241 6 50.4 58.22878  
## WT/BR 54.62719 1.2500265 6 53.2 55.89405  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.235704   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.72100 a  
## BRN 54.82030 b  
## WT/BR 54.62719 bc  
## WT/BLK 54.51893 bc  
## BLK 52.40498 c  
## WHT 50.11205 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.568521   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.46259 2.041495 18 51.85557 58.68179  
## AftLow 52.60556 3.214210 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.861613   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.46259 a  
## AftLow 52.60556 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.20866 a  
## BL/BR:AftLow 57.23333 ab  
## BRN:AftHigh 56.27393 abc  
## WT/BLK:AftHigh 56.07119 abcd  
## WT/BR:AftHigh 55.75438 abcd  
## BLK:AftHigh 53.94329 bcde  
## WT/BR:AftLow 53.50000 cde  
## BRN:AftLow 53.36667 cde  
## WT/BLK:AftLow 52.96667 cde  
## WHT:AftHigh 52.52410 de  
## BLK:AftLow 50.86667 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM13 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 103.424 20.685 6.2462 0.0007626 \*\*\*  
## THIregime 1 63.212 63.212 19.0882 0.0002067 \*\*\*  
## Colour:THIregime 5 8.794 1.759 0.5311 0.7505246   
## Residuals 24 79.478 3.312   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.31157   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.08671 1.164433 6 53.7 56.34706  
## BLK 52.45426 2.694702 6 49.1 55.82146  
## BRN 54.18716 2.140728 6 50.3 56.20767  
## WHT 50.03341 2.855181 6 46.1 53.28927  
## WT/BLK 53.12788 2.784713 6 50.1 56.69553  
## WT/BR 54.66116 1.090899 6 53.6 55.70240  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.248524   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.08671 a  
## WT/BR 54.66116 a  
## BRN 54.18716 a  
## WT/BLK 53.12788 ab  
## BLK 52.45426 ab  
## WHT 50.03341 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.31157   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58353 1.724149 18 51.68756 56.69553  
## AftLow 51.93333 2.881585 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.251941   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58353 a  
## AftLow 51.93333 b  
## data1[[i]] groups  
## BL/BR:AftHigh 56.10676 a  
## WT/BR:AftHigh 55.65564 a  
## BRN:AftHigh 55.44099 a  
## BL/BR:AftLow 54.06667 a  
## WT/BLK:AftHigh 53.98910 a  
## BLK:AftHigh 53.94186 a  
## WT/BR:AftLow 53.66667 a  
## BRN:AftLow 52.93333 ab  
## WHT:AftHigh 52.36682 ab  
## WT/BLK:AftLow 52.26667 ab  
## BLK:AftLow 50.96667 ab  
## WHT:AftLow 47.70000 b  
## [1] "---- RECTEM14 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.338 51.068 74.9381 7.536e-14 \*\*\*  
## THIregime 1 99.370 99.370 145.8181 1.098e-11 \*\*\*  
## Colour:THIregime 5 11.392 2.278 3.3435 0.01969 \*   
## Residuals 24 16.355 0.681   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6814639   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.82965 1.301646 6 55.4 58.20638  
## BLK 54.64949 1.112394 6 53.2 55.89405  
## BRN 52.00517 2.586348 6 49.4 54.62215  
## WHT 50.15399 2.972316 6 46.1 53.51468  
## WT/BLK 57.82402 1.927944 6 54.7 59.87529  
## WT/BR 55.47278 1.803033 6 53.7 57.32712  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.473637   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.82402 a  
## BL/BR 56.82965 ab  
## WT/BR 55.47278 bc  
## BLK 54.64949 c  
## BRN 52.00517 d  
## WHT 50.15399 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6814639   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.15059 2.351838 18 51.94518 59.87529  
## AftLow 52.82778 3.334808 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5679217   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.15059 a  
## AftLow 52.82778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.24805 a  
## BL/BR:AftHigh 57.99263 ab  
## WT/BR:AftHigh 57.11223 ab  
## WT/BLK:AftLow 56.40000 bc  
## BL/BR:AftLow 55.66667 bcd  
## BLK:AftHigh 55.59899 bcd  
## BRN:AftHigh 54.34367 cde  
## WT/BR:AftLow 53.83333 de  
## BLK:AftLow 53.70000 de  
## WHT:AftHigh 52.60798 e  
## BRN:AftLow 49.66667 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM15 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.116 44.223 23.6896 1.473e-08 \*\*\*  
## THIregime 1 88.100 88.100 47.1936 4.185e-07 \*\*\*  
## Colour:THIregime 5 10.582 2.116 1.1338 0.3697   
## Residuals 24 44.803 1.867   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.866778   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.34577 1.741427 6 54.2 58.94314  
## BLK 53.93363 2.113193 6 50.2 56.16824  
## BRN 55.39533 1.696026 6 53.2 57.11543  
## WHT 50.26408 3.080352 6 46.1 53.72049  
## WT/BLK 57.73034 1.519648 6 55.8 59.56167  
## WT/BR 54.45033 2.554303 6 51.4 57.92823  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.439021   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.73034 a  
## BL/BR 57.34577 a  
## BRN 55.39533 ab  
## WT/BR 54.45033 b  
## BLK 53.93363 b  
## WHT 50.26408 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.866778   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.41761 2.234007 18 52.18039 59.56167  
## AftLow 53.28889 3.357676 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9399688   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.41761 a  
## AftLow 53.28889 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.02735 a  
## BL/BR:AftHigh 58.19155 a  
## BRN:AftHigh 56.89067 ab  
## BL/BR:AftLow 56.50000 abc  
## WT/BLK:AftLow 56.43333 abc  
## WT/BR:AftHigh 56.33399 abc  
## BLK:AftHigh 55.23392 abc  
## BRN:AftLow 53.90000 bc  
## WHT:AftHigh 52.82817 c  
## BLK:AftLow 52.63333 c  
## WT/BR:AftLow 52.56667 c  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM16 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 412.08 82.417 100.4088 2.765e-15 \*\*\*  
## THIregime 1 126.76 126.761 154.4335 6.039e-12 \*\*\*  
## Colour:THIregime 5 9.58 1.915 2.3335 0.07328 .   
## Residuals 24 19.70 0.821   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8208135   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91345 1.691229 6 54.7 58.69921  
## BLK 50.58573 2.264978 6 48.1 53.09761  
## BRN 52.03937 2.967860 6 48.1 55.21280  
## WHT 50.16622 2.984271 6 46.1 53.53755  
## WT/BLK 58.46353 1.608885 6 56.1 60.45026  
## WT/BR 57.22385 1.707210 6 55.2 59.10430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.617303   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.46353 a  
## WT/BR 57.22385 a  
## BL/BR 56.91345 a  
## BRN 52.03937 b  
## BLK 50.58573 bc  
## WHT 50.16622 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8208135   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.10850 3.064565 18 51.97131 60.45026  
## AftLow 52.35556 4.070731 18 46.10000 58.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6232888   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.10850 a  
## AftLow 52.35556 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.66040 a  
## WT/BR:AftHigh 58.74770 a  
## BL/BR:AftHigh 58.39358 a  
## WT/BLK:AftLow 57.26667 ab  
## WT/BR:AftLow 55.70000 b  
## BL/BR:AftLow 55.43333 b  
## BRN:AftHigh 54.61207 bc  
## WHT:AftHigh 52.63245 c  
## BLK:AftHigh 52.60479 c  
## BRN:AftLow 49.46667 d  
## BLK:AftLow 48.56667 d  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM17 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 261.554 52.311 27.6602 3.181e-09 \*\*\*  
## THIregime 1 113.059 113.059 59.7820 5.739e-08 \*\*\*  
## Colour:THIregime 5 5.875 1.175 0.6213 0.6849   
## Residuals 24 45.389 1.891   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.89119   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.11671 1.448247 6 54.6 57.50447  
## BLK 51.18575 2.066781 6 49.2 53.10051  
## BRN 52.81637 3.037815 6 48.4 56.49080  
## WHT 50.18545 3.003083 6 46.1 53.57348  
## WT/BLK 57.51071 2.030796 6 54.8 60.42412  
## WT/BR 55.71794 2.030889 6 52.8 58.15038  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.454917   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.51071 a  
## BL/BR 56.11671 a  
## WT/BR 55.71794 a  
## BRN 52.81637 b  
## BLK 51.18575 bc  
## WHT 50.18545 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.89119   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.69431 2.528100 18 52.01238 60.42412  
## AftLow 52.15000 3.465502 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9460948   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.69431 a  
## AftLow 52.15000 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.95475 a  
## BL/BR:AftHigh 57.43343 ab  
## WT/BR:AftHigh 57.20255 ab  
## WT/BLK:AftLow 56.06667 abc  
## BRN:AftHigh 54.83273 bcd  
## BL/BR:AftLow 54.80000 bcd  
## WT/BR:AftLow 54.23333 bcd  
## BLK:AftHigh 53.07151 cde  
## WHT:AftHigh 52.67089 cde  
## BRN:AftLow 50.80000 def  
## BLK:AftLow 49.30000 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM18 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.192 61.638 42.1757 4.049e-11 \*\*\*  
## THIregime 1 113.913 113.913 77.9442 5.282e-09 \*\*\*  
## Colour:THIregime 5 10.211 2.042 1.3973 0.2607   
## Residuals 24 35.075 1.461   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.461466   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.36007 1.927496 6 53.9 59.34968  
## BLK 51.96645 1.973756 6 50.1 53.83535  
## BRN 52.36970 2.570902 6 49.6 54.77896  
## WHT 50.20292 3.020211 6 46.1 53.60615  
## WT/BLK 58.13065 1.516642 6 56.1 60.00596  
## WT/BR 55.47654 2.489442 6 51.6 58.69921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.15806   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.13065 a  
## BL/BR 57.36007 ab  
## WT/BR 55.47654 b  
## BRN 52.36970 c  
## BLK 51.96645 cd  
## WHT 50.20292 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.461466   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.02989 2.623888 18 52.04972 60.00596  
## AftLow 52.47222 3.729344 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8316899   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.02989 a  
## AftLow 52.47222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BL/BR:AftHigh 58.38680 a  
## WT/BR:AftHigh 57.25307 ab  
## WT/BLK:AftLow 56.90000 ab  
## BL/BR:AftLow 56.33333 ab  
## BRN:AftHigh 54.70607 bc  
## BLK:AftHigh 53.76623 bc  
## WT/BR:AftLow 53.70000 bcd  
## WHT:AftHigh 52.70584 cde  
## BLK:AftLow 50.16667 def  
## BRN:AftLow 50.03333 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM19 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 214.142 42.828 46.2593 1.508e-11 \*\*\*  
## THIregime 1 95.794 95.794 103.4681 3.520e-10 \*\*\*  
## Colour:THIregime 5 8.698 1.740 1.8789 0.1356   
## Residuals 24 22.220 0.926   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9258352   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.35577 1.738712 6 53.1 57.37006  
## BLK 52.98502 2.040765 6 49.4 55.12743  
## BRN 51.49945 2.522619 6 49.2 54.02105  
## WHT 50.00720 2.829896 6 46.1 53.24026  
## WT/BLK 55.84819 1.518513 6 53.9 57.60154  
## WT/BR 56.75850 1.215251 6 55.2 58.13295  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.717655   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.75850 a  
## WT/BLK 55.84819 a  
## BL/BR 55.35577 a  
## BLK 52.98502 b  
## BRN 51.49945 bc  
## WHT 50.00720 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9258352   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.37360 2.142051 18 51.63156 58.13295  
## AftLow 52.11111 3.134793 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6619633   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.37360 a  
## AftLow 52.11111 b  
## data1[[i]] groups  
## WT/BR:AftHigh 57.81701 a  
## WT/BLK:AftHigh 57.16305 ab  
## BL/BR:AftHigh 56.84487 abc  
## WT/BR:AftLow 55.70000 abcd  
## WT/BLK:AftLow 54.53333 bcde  
## BLK:AftHigh 54.30336 cdef  
## BL/BR:AftLow 53.86667 def  
## BRN:AftHigh 53.79890 def  
## WHT:AftHigh 52.31440 ef  
## BLK:AftLow 51.66667 fg  
## BRN:AftLow 49.20000 gh  
## WHT:AftLow 47.70000 h  
## [1] "---- RECTEM20 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.69 66.538 99.1416 3.195e-15 \*\*\*  
## THIregime 1 92.01 92.008 137.0915 2.076e-11 \*\*\*  
## Colour:THIregime 5 20.28 4.056 6.0439 0.0009342 \*\*\*  
## Residuals 24 16.11 0.671   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6711401   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.50173 1.003676 6 57.1 59.69815  
## BLK 55.32938 1.168834 6 53.3 56.49011  
## BRN 51.26415 3.025145 6 48.2 54.34179  
## WHT 50.19244 3.009931 6 46.1 53.58655  
## WT/BLK 57.24513 1.466926 6 55.5 58.75148  
## WT/BR 56.12591 1.715430 6 53.6 58.08939  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.462432   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.50173 a  
## WT/BLK 57.24513 ab  
## WT/BR 56.12591 bc  
## BLK 55.32938 c  
## BRN 51.26415 d  
## WHT 50.19244 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6711401   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.37513 2.495023 18 52.02732 59.69815  
## AftLow 53.17778 3.935144 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5636035   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.37513 a  
## AftLow 53.17778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.33679 a  
## WT/BLK:AftHigh 58.55692 ab  
## BL/BR:AftLow 57.66667 abc  
## WT/BR:AftHigh 57.51849 abc  
## BLK:AftHigh 56.15876 bcd  
## WT/BLK:AftLow 55.93333 cd  
## WT/BR:AftLow 54.73333 de  
## BLK:AftLow 54.50000 de  
## BRN:AftHigh 53.99496 de  
## WHT:AftHigh 52.68487 e  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM21 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.112 36.622 18.382 1.639e-07 \*\*\*  
## THIregime 1 89.323 89.323 44.834 6.320e-07 \*\*\*  
## Colour:THIregime 5 8.706 1.741 0.874 0.5132   
## Residuals 24 47.815 1.992   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.992309   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51585 1.392916 6 54.8 58.29847  
## BLK 52.96306 2.197632 6 50.2 55.69891  
## BRN 53.30842 2.104003 6 51.2 55.52119  
## WHT 50.15749 2.975731 6 46.1 53.52121  
## WT/BLK 56.58562 1.888300 6 54.2 59.16964  
## WT/BR 55.12067 2.356199 6 51.6 58.21571  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.519692   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.58562 a  
## BL/BR 56.51585 a  
## WT/BR 55.12067 ab  
## BRN 53.30842 b  
## BLK 52.96306 b  
## WHT 50.15749 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.992309   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.68370 2.061312 18 51.95265 59.16964  
## AftLow 52.53333 3.138002 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9710584   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.68370 a  
## AftLow 52.53333 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.67123 a  
## BL/BR:AftHigh 57.56503 a  
## WT/BR:AftHigh 56.70801 ab  
## WT/BLK:AftLow 55.50000 abc  
## BL/BR:AftLow 55.46667 abc  
## BRN:AftHigh 55.21684 abc  
## BLK:AftHigh 54.32612 abc  
## WT/BR:AftLow 53.53333 abc  
## WHT:AftHigh 52.61497 bc  
## BLK:AftLow 51.60000 cd  
## BRN:AftLow 51.40000 cd  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM22 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.327 36.665 16.5390 4.293e-07 \*\*\*  
## THIregime 1 85.572 85.572 38.6000 2.023e-06 \*\*\*  
## Colour:THIregime 5 9.920 1.984 0.8949 0.5002   
## Residuals 24 53.206 2.217   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.2169   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.78643 1.292699 6 55.2 58.10682  
## BLK 53.58154 2.404150 6 49.2 55.91790  
## BRN 53.96566 2.868597 6 49.1 57.15962  
## WHT 50.25884 3.075185 6 46.1 53.71069  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 56.28070 1.487947 6 54.3 58.01099  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.657922   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.78643 a  
## WT/BR 56.28070 ab  
## WT/BLK 56.24402 ab  
## BRN 53.96566 bc  
## BLK 53.58154 c  
## WHT 50.25884 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.2169   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.06129 2.040494 18 52.16919 58.10682  
## AftLow 52.97778 3.214591 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.02433   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.06129 a  
## AftLow 52.97778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.93953 a  
## WT/BR:AftHigh 57.52807 a  
## WT/BLK:AftHigh 57.35471 a  
## BRN:AftHigh 55.86464 ab  
## BL/BR:AftLow 55.63333 ab  
## WT/BLK:AftLow 55.13333 ab  
## WT/BR:AftLow 55.03333 ab  
## BLK:AftHigh 54.86309 ab  
## WHT:AftHigh 52.81768 b  
## BLK:AftLow 52.30000 b  
## BRN:AftLow 52.06667 bc  
## WHT:AftLow 47.70000 c  
## [1] "---- RECTEM23 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 264.261 52.852 46.8254 1.323e-11 \*\*\*  
## THIregime 1 104.603 104.603 92.6748 1.028e-09 \*\*\*  
## Colour:THIregime 5 6.760 1.352 1.1978 0.34   
## Residuals 24 27.089 1.129   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.128709   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.96593 1.708592 6 53.7 58.02551  
## BLK 50.66237 2.261601 6 48.3 53.04580  
## BRN 54.28140 2.409764 6 50.2 56.91728  
## WHT 50.18195 2.999660 6 46.1 53.56695  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 56.64411 1.481537 6 54.6 58.18696  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.896532   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## WT/BR 56.64411 a  
## BL/BR 55.96593 ab  
## BRN 54.28140 b  
## BLK 50.66237 c  
## WHT 50.18195 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.128709   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.78141 2.433030 18 52.00492 58.85602  
## AftLow 52.37222 3.408261 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7309001   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.78141 a  
## AftLow 52.37222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## WT/BR:AftHigh 57.92155 a  
## BL/BR:AftHigh 57.33186 ab  
## BRN:AftHigh 55.99614 ab  
## WT/BLK:AftLow 55.36667 abc  
## WT/BR:AftLow 55.36667 abc  
## BL/BR:AftLow 54.60000 bc  
## BLK:AftHigh 52.69141 c  
## WHT:AftHigh 52.66390 c  
## BRN:AftLow 52.56667 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM24 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 305.926 61.185 11.8619 7.455e-06 \*\*\*  
## THIregime 1 102.938 102.938 19.9565 0.000161 \*\*\*  
## Colour:THIregime 5 11.627 2.325 0.4508 0.808474   
## Residuals 24 123.794 5.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.158104   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.32338 1.918355 6 54.8 59.58780  
## BLK 54.23516 1.819412 6 51.3 56.27446  
## BRN 55.00068 2.822945 6 50.2 57.95698  
## WHT 50.45107 3.265918 6 46.1 54.07005  
## WT/BLK 57.71083 2.259536 6 53.9 60.52866  
## WT/BR 59.45803 4.115903 6 54.8 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.054284   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 59.45803 a  
## WT/BLK 57.71083 ab  
## BL/BR 57.32338 ab  
## BRN 55.00068 b  
## BLK 54.23516 bc  
## WHT 50.45107 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.158104   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.38749 2.851596 18 52.57989 64.09347  
## AftLow 54.00556 4.222555 18 46.10000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.562471   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.38749 a  
## AftLow 54.00556 b  
## data1[[i]] groups  
## WT/BR:AftHigh 60.44938 a  
## WT/BLK:AftHigh 59.08833 ab  
## BL/BR:AftHigh 58.94677 ab  
## WT/BR:AftLow 58.46667 ab  
## BRN:AftHigh 57.03470 ab  
## WT/BLK:AftLow 56.33333 ab  
## BL/BR:AftLow 55.70000 ab  
## BLK:AftHigh 55.60364 ab  
## WHT:AftHigh 53.20214 bc  
## BRN:AftLow 52.96667 bc  
## BLK:AftLow 52.86667 bc  
## WHT:AftLow 47.70000 c  
## [1] "---- RECTEM25 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 318.58 63.717 104.6555 1.724e-15 \*\*\*  
## THIregime 1 105.43 105.434 173.1763 1.809e-12 \*\*\*  
## Colour:THIregime 5 14.52 2.904 4.7691 0.003627 \*\*   
## Residuals 24 14.61 0.609   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6088221   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.54479 1.143877 6 56.1 58.84855  
## BLK 50.88101 2.137957 6 48.3 53.00178  
## BRN 51.11443 2.872923 6 48.1 54.09945  
## WHT 50.11904 2.938230 6 46.1 53.44934  
## WT/BLK 55.76985 1.499148 6 53.8 57.39246  
## WT/BR 56.27230 1.378011 6 54.2 57.87160  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.392882   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.54479 a  
## WT/BR 56.27230 ab  
## WT/BLK 55.76985 b  
## BRN 51.11443 c  
## BLK 50.88101 c  
## WHT 50.11904 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6088221   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.32825 2.489777 18 51.87051 58.84855  
## AftLow 51.90556 3.775536 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5367997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.32825 a  
## AftLow 51.90556 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.48958 a  
## WT/BR:AftHigh 57.37794 ab  
## WT/BLK:AftHigh 57.07303 ab  
## BL/BR:AftLow 56.60000 abc  
## WT/BR:AftLow 55.16667 bcd  
## WT/BLK:AftLow 54.46667 cde  
## BRN:AftHigh 53.69552 de  
## BLK:AftHigh 52.79535 e  
## WHT:AftHigh 52.53808 e  
## BLK:AftLow 48.96667 f  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM26 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.522 62.904 67.7545 2.319e-13 \*\*\*  
## THIregime 1 108.753 108.753 117.1385 1.026e-10 \*\*\*  
## Colour:THIregime 5 10.563 2.113 2.2756 0.07922 .   
## Residuals 24 22.282 0.928   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9284151   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.82950 1.537112 6 54.9 58.42479  
## BLK 53.75041 1.989041 6 50.2 55.74305  
## BRN 51.74386 2.790428 6 49.1 54.50193  
## WHT 50.12428 2.943336 6 46.1 53.45914  
## WT/BLK 58.51145 1.413007 6 56.9 60.14535  
## WT/BR 56.40230 1.885313 6 53.8 58.45528  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.720047   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.51145 a  
## BL/BR 56.82950 ab  
## WT/BR 56.40230 b  
## BLK 53.75041 c  
## BRN 51.74386 d  
## WHT 50.12428 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9284151   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.29838 2.648373 18 51.88171 60.14535  
## AftLow 52.82222 3.663260 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.662885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.29838 a  
## AftLow 52.82222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.75623 a  
## BL/BR:AftHigh 58.19234 ab  
## WT/BR:AftHigh 58.00460 ab  
## WT/BLK:AftLow 57.26667 abc  
## BL/BR:AftLow 55.46667 bcd  
## BLK:AftHigh 55.00083 cde  
## WT/BR:AftLow 54.80000 cde  
## BRN:AftHigh 54.28773 de  
## WHT:AftHigh 52.54857 e  
## BLK:AftLow 52.50000 e  
## BRN:AftLow 49.20000 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM27 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.730 42.346 21.3109 4.087e-08 \*\*\*  
## THIregime 1 91.383 91.383 45.9893 5.156e-07 \*\*\*  
## Colour:THIregime 5 8.359 1.672 0.8413 0.5337   
## Residuals 24 47.689 1.987   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.987054   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.19781 1.444874 6 54.9 58.84109  
## BLK 52.87351 2.243588 6 50.1 55.66755  
## BRN 53.80312 2.998248 6 50.1 57.71131  
## WHT 50.18020 2.997949 6 46.1 53.56368  
## WT/BLK 56.48574 1.514300 6 54.8 58.33332  
## WT/BR 56.01908 1.447295 6 54.6 57.43166  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.516367   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.19781 a  
## WT/BLK 56.48574 a  
## WT/BR 56.01908 ab  
## BRN 53.80312 bc  
## BLK 52.87351 c  
## WHT 50.18020 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.987054   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.01982 2.222851 18 52.00118 58.84109  
## AftLow 52.83333 3.287946 18 46.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.969777   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.01982 a  
## AftLow 52.83333 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.26228 a  
## WT/BLK:AftHigh 57.80481 a  
## WT/BR:AftHigh 57.33816 a  
## BL/BR:AftLow 56.13333 ab  
## BRN:AftHigh 55.77291 abc  
## WT/BLK:AftLow 55.16667 abcd  
## WT/BR:AftLow 54.70000 abcd  
## BLK:AftHigh 54.28036 abcd  
## WHT:AftHigh 52.66041 bcd  
## BRN:AftLow 51.83333 cde  
## BLK:AftLow 51.46667 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM28 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 277.121 55.424 130.3072 < 2.2e-16 \*\*\*  
## THIregime 1 103.454 103.454 243.2287 4.635e-14 \*\*\*  
## Colour:THIregime 5 10.308 2.062 4.8471 0.003325 \*\*   
## Residuals 24 10.208 0.425   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.425335   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.86780 1.292571 6 55.4 58.11677  
## BLK 50.50179 2.384970 6 48.1 52.92918  
## BRN 54.63453 1.930455 6 52.4 56.57182  
## WHT 50.29903 3.114847 6 46.1 53.78583  
## WT/BLK 56.48347 1.392851 6 54.8 58.07197  
## WT/BR 56.38460 1.437430 6 54.7 57.90471  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.164219   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.86780 a  
## WT/BLK 56.48347 a  
## WT/BR 56.38460 a  
## BRN 54.63453 b  
## BLK 50.50179 c  
## WHT 50.29903 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.425335   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89041 2.348934 18 52.25507 58.11677  
## AftLow 52.50000 3.462743 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4486758   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89041 a  
## AftLow 52.50000 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.03560 a  
## WT/BLK:AftHigh 57.70027 a  
## WT/BR:AftHigh 57.66920 a  
## BRN:AftHigh 56.36905 ab  
## BL/BR:AftLow 55.70000 b  
## WT/BLK:AftLow 55.26667 b  
## WT/BR:AftLow 55.10000 b  
## BRN:AftLow 52.90000 c  
## WHT:AftHigh 52.89807 c  
## BLK:AftHigh 52.67024 c  
## BLK:AftLow 48.33333 d  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM29 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 170.244 34.049 33.9775 3.912e-10 \*\*\*  
## THIregime 1 63.789 63.789 63.6552 3.310e-08 \*\*\*  
## Colour:THIregime 5 11.056 2.211 2.2065 0.08694 .   
## Residuals 24 24.050 1.002   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.002099   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.20969 1.1567774 6 55.7 58.57227  
## BLK 55.37336 0.9903025 6 54.2 56.55875  
## BRN 55.22722 2.2465924 6 51.2 57.35761  
## WHT 50.18719 3.0047946 6 46.1 53.57675  
## WT/BLK 55.14310 1.3388601 6 53.7 56.52129  
## WT/BR 55.61289 1.2616125 6 54.3 56.83840  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.787   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.20969 a  
## WT/BR 55.61289 ab  
## BLK 55.37336 b  
## BRN 55.22722 b  
## WT/BLK 55.14310 b  
## WHT 50.18719 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.002099   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.12338 1.787002 18 52.01612 58.57227  
## AftLow 53.46111 2.980947 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6886877   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.12338 a  
## AftLow 53.46111 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.08604 a  
## WT/BR:AftHigh 56.75912 ab  
## BRN:AftHigh 56.65445 abc  
## WT/BLK:AftHigh 56.35287 abc  
## BL/BR:AftLow 56.33333 abc  
## BLK:AftHigh 56.21338 abc  
## BLK:AftLow 54.53333 bcd  
## WT/BR:AftLow 54.46667 bcd  
## WT/BLK:AftLow 53.93333 bcd  
## BRN:AftLow 53.80000 cd  
## WHT:AftHigh 52.67439 d  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM30 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 285.098 57.020 112.6211 7.454e-16 \*\*\*  
## THIregime 1 90.567 90.567 178.8824 1.282e-12 \*\*\*  
## Colour:THIregime 5 15.666 3.133 6.1887 0.0008076 \*\*\*  
## Residuals 24 12.151 0.506   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.506296   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.38418 0.9150272 6 57.4 59.25925  
## BLK 55.00305 1.1121030 6 53.4 56.20593  
## BRN 52.36904 2.6603082 6 49.3 54.98804  
## WHT 50.20816 3.0253543 6 46.1 53.61595  
## WT/BLK 57.46924 1.4865286 6 55.6 59.14351  
## WT/BR 55.51636 1.7785349 6 53.1 57.32277  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.270198   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.38418 a  
## WT/BLK 57.46924 a  
## WT/BR 55.51636 b  
## BLK 55.00305 b  
## BRN 52.36904 c  
## WHT 50.20816 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.506296   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.41112 2.340599 18 52.06092 59.25925  
## AftLow 53.23889 3.595608 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4895187   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.41112 a  
## AftLow 53.23889 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.20169 a  
## WT/BLK:AftHigh 58.77181 ab  
## BL/BR:AftLow 57.56667 abc  
## WT/BR:AftHigh 57.06606 bc  
## WT/BLK:AftLow 56.16667 cd  
## BLK:AftHigh 55.93943 cde  
## BRN:AftHigh 54.77141 def  
## BLK:AftLow 54.06667 ef  
## WT/BR:AftLow 53.96667 ef  
## WHT:AftHigh 52.71633 f  
## BRN:AftLow 49.96667 g  
## WHT:AftLow 47.70000 h  
## [1] "---- RECTEM31 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 258.418 51.684 33.5972 4.395e-10 \*\*\*  
## THIregime 1 98.468 98.468 64.0099 3.152e-08 \*\*\*  
## Colour:THIregime 5 11.568 2.314 1.5039 0.2258   
## Residuals 24 36.920 1.538   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.538332   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.74711 1.4169721 6 54.9 58.16904  
## BLK 55.37198 0.9889163 6 54.2 56.55614  
## BRN 52.79886 3.2328435 6 48.5 56.74344  
## WHT 50.24486 3.0614187 6 46.1 53.68456  
## WT/BLK 58.50071 1.6854888 6 56.1 60.42412  
## WT/BR 55.52628 1.9341809 6 53.7 57.53620  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.214085   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.50071 a  
## BL/BR 56.74711 ab  
## WT/BR 55.52628 b  
## BLK 55.37198 b  
## BRN 52.79886 c  
## WHT 50.24486 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.538332   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.51882 2.422056 18 52.13933 60.42412  
## AftLow 53.21111 3.490978 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8532811   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.51882 a  
## AftLow 53.21111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.90142 a  
## BL/BR:AftHigh 57.99422 ab  
## WT/BR:AftHigh 57.28589 abc  
## WT/BLK:AftLow 57.10000 abc  
## BLK:AftHigh 56.21063 bcd  
## BL/BR:AftLow 55.50000 bcd  
## BRN:AftHigh 54.93104 bcd  
## BLK:AftLow 54.53333 bcd  
## WT/BR:AftLow 53.76667 cde  
## WHT:AftHigh 52.78972 de  
## BRN:AftLow 50.66667 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM32 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 293.059 58.612 82.6215 2.518e-14 \*\*\*  
## THIregime 1 94.686 94.686 133.4731 2.731e-11 \*\*\*  
## Colour:THIregime 5 13.022 2.604 3.6712 0.01312 \*   
## Residuals 24 17.026 0.709   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7094017   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.65462 1.275717 6 55.9 59.33807  
## BLK 51.55794 1.810714 6 49.4 53.38219  
## BRN 51.49431 2.773916 6 48.3 54.47579  
## WHT 50.01768 2.840002 6 46.1 53.25986  
## WT/BLK 56.13960 1.422200 6 54.2 57.96743  
## WT/BR 55.76651 1.502549 6 53.7 57.29837  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.503541   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.65462 a  
## WT/BLK 56.13960 b  
## WT/BR 55.76651 b  
## BLK 51.55794 c  
## BRN 51.49431 cd  
## WHT 50.01768 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7094017   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.39356 2.436987 18 51.65396 59.33807  
## AftLow 52.15000 3.614879 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5794463   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.39356 a  
## AftLow 52.15000 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.50925 a  
## WT/BLK:AftHigh 57.27921 ab  
## WT/BR:AftHigh 57.06635 ab  
## BL/BR:AftLow 56.80000 abc  
## WT/BLK:AftLow 55.00000 bcd  
## WT/BR:AftLow 54.46667 cde  
## BRN:AftHigh 53.98863 de  
## BLK:AftHigh 53.18255 de  
## WHT:AftHigh 52.33537 ef  
## BLK:AftLow 49.93333 fg  
## BRN:AftLow 49.00000 g  
## WHT:AftLow 47.70000 g  
## [1] "---- RECTEM33 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 226.527 45.305 37.483 1.407e-10 \*\*\*  
## THIregime 1 99.707 99.707 82.491 3.110e-09 \*\*\*  
## Colour:THIregime 5 9.555 1.911 1.581 0.2034   
## Residuals 24 29.009 1.209   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.208697   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.60778 1.611707 6 54.2 58.24040  
## BLK 55.25600 1.347049 6 53.2 56.81749  
## BRN 54.30974 2.507134 6 50.1 57.01707  
## WHT 50.36894 3.184107 6 46.1 53.91651  
## WT/BLK 58.45500 1.639081 6 56.2 60.31958  
## WT/BR 56.22120 2.032501 6 53.6 58.76455  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.962583   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.45500 a  
## BL/BR 56.60778 ab  
## WT/BR 56.22120 bc  
## BLK 55.25600 bc  
## BRN 54.30974 c  
## WHT 50.36894 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.208697   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.86733 2.252424 18 52.40441 60.31958  
## AftLow 53.53889 3.243480 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7563553   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.86733 a  
## AftLow 53.53889 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.84334 a  
## BL/BR:AftHigh 57.94890 ab  
## WT/BR:AftHigh 57.90906 ab  
## WT/BLK:AftLow 57.06667 abc  
## BLK:AftHigh 56.31201 bc  
## BRN:AftHigh 56.15282 bcd  
## BL/BR:AftLow 55.26667 bcde  
## WT/BR:AftLow 54.53333 cde  
## BLK:AftLow 54.20000 cde  
## WHT:AftHigh 53.03787 de  
## BRN:AftLow 52.46667 e  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM34 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 261.163 52.233 24.2096 1.191e-08 \*\*\*  
## THIregime 1 100.512 100.512 46.5868 4.647e-07 \*\*\*  
## Colour:THIregime 5 12.109 2.422 1.1225 0.3751   
## Residuals 24 51.780 2.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.157511   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.51562 1.578354 6 54.7 59.09497  
## BLK 50.97913 2.428383 6 48.1 53.86133  
## BRN 53.98161 3.191633 6 48.3 57.14537  
## WHT 50.29379 3.109667 6 46.1 53.77603  
## WT/BLK 56.23095 1.577910 6 53.7 57.98485  
## WT/BR 55.85778 1.464786 6 54.2 57.26701  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.622078   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.51562 a  
## WT/BLK 56.23095 ab  
## WT/BR 55.85778 ab  
## BRN 53.98161 b  
## BLK 50.97913 c  
## WHT 50.29379 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.157511   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.81407 2.369858 18 52.24387 59.09497  
## AftLow 52.47222 3.674844 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.010517   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.81407 a  
## AftLow 52.47222 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.49791 a  
## WT/BLK:AftHigh 57.32857 ab  
## WT/BR:AftHigh 57.18222 abc  
## BL/BR:AftLow 56.53333 abc  
## BRN:AftHigh 55.92988 abcd  
## WT/BLK:AftLow 55.13333 abcd  
## WT/BR:AftLow 54.53333 abcd  
## BLK:AftHigh 53.05826 bcde  
## WHT:AftHigh 52.88758 cde  
## BRN:AftLow 52.03333 de  
## BLK:AftLow 48.90000 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM35 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 208.437 41.687 15.9544 5.925e-07 \*\*\*  
## THIregime 1 90.999 90.999 34.8267 4.344e-06 \*\*\*  
## Colour:THIregime 5 7.879 1.576 0.6031 0.6981   
## Residuals 24 62.710 2.613   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.612903   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.91740 1.673107 6 54.2 57.59501  
## BLK 54.11379 2.310379 6 49.9 56.33399  
## BRN 54.06742 3.143487 6 48.3 56.93153  
## WHT 50.20816 3.025354 6 46.1 53.61595  
## WT/BLK 57.57580 1.543558 6 55.7 59.56166  
## WT/BR 56.72341 1.662354 6 54.3 58.53195  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.885565   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.57580 a  
## WT/BR 56.72341 ab  
## BL/BR 55.91740 ab  
## BLK 54.11379 b  
## BRN 54.06742 b  
## WHT 50.20816 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.612903   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.35755 2.288253 18 52.06092 59.56166  
## AftLow 53.17778 3.343221 18 46.10000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.112061   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.35755 a  
## AftLow 53.17778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.81827 a  
## WT/BR:AftHigh 58.11350 a  
## BL/BR:AftHigh 57.43481 ab  
## WT/BLK:AftLow 56.33333 abc  
## BRN:AftHigh 55.86818 abc  
## WT/BR:AftLow 55.33333 abc  
## BLK:AftHigh 55.19424 abc  
## BL/BR:AftLow 54.40000 abc  
## BLK:AftLow 53.03333 bc  
## WHT:AftHigh 52.71633 bc  
## BRN:AftLow 52.26667 cd  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM36 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 385.49 77.098 111.9497 7.982e-16 \*\*\*  
## THIregime 1 119.75 119.746 173.8755 1.734e-12 \*\*\*  
## Colour:THIregime 5 10.31 2.063 2.9951 0.03068 \*   
## Residuals 24 16.53 0.689   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.688687   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.33288 1.343355 6 55.7 58.92322  
## BLK 51.52836 1.885666 6 49.1 53.42544  
## BRN 51.25991 2.851141 6 48.5 54.20399  
## WHT 50.03691 2.858558 6 46.1 53.29580  
## WT/BLK 58.78347 1.434887 6 57.2 60.34571  
## WT/BR 54.96798 2.365990 6 51.6 57.62768  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.481427   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.78347 a  
## BL/BR 57.33288 a  
## WT/BR 54.96798 b  
## BLK 51.52836 c  
## BRN 51.25991 cd  
## WHT 50.03691 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.688687   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80872 2.976085 18 51.69503 60.34571  
## AftLow 52.16111 3.924004 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5709236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80872 a  
## AftLow 52.16111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.06694 a  
## BL/BR:AftHigh 58.43243 ab  
## WT/BLK:AftLow 57.50000 b  
## WT/BR:AftHigh 56.93597 b  
## BL/BR:AftLow 56.23333 bc  
## BRN:AftHigh 53.85315 cd  
## BLK:AftHigh 53.19004 d  
## WT/BR:AftLow 53.00000 d  
## WHT:AftHigh 52.37381 d  
## BLK:AftLow 49.86667 e  
## BRN:AftLow 48.66667 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM37 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 340.96 68.191 134.5464 < 2.2e-16 \*\*\*  
## THIregime 1 109.56 109.562 216.1746 1.677e-13 \*\*\*  
## Colour:THIregime 5 15.22 3.044 6.0061 0.0009707 \*\*\*  
## Residuals 24 12.16 0.507   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5068223   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.41364 0.8829104 6 57.3 59.40776  
## BLK 50.93479 2.2648532 6 48.3 53.22538  
## BRN 52.18301 2.7128453 6 49.3 55.13962  
## WHT 50.25884 3.0751853 6 46.1 53.71069  
## WT/BLK 56.60537 1.4347254 6 54.9 58.20265  
## WT/BR 55.97155 1.6141133 6 53.8 57.81062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.270858   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.41364 a  
## WT/BLK 56.60537 b  
## WT/BR 55.97155 b  
## BRN 52.18301 c  
## BLK 50.93479 cd  
## WHT 50.25884 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5068223   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80573 2.567838 18 52.16919 59.40776  
## AftLow 52.31667 3.882426 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4897731   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80573 a  
## AftLow 52.31667 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.19394 a  
## WT/BLK:AftHigh 57.87741 a  
## BL/BR:AftLow 57.63333 a  
## WT/BR:AftHigh 57.34309 ab  
## WT/BLK:AftLow 55.33333 bc  
## BRN:AftHigh 54.63268 cd  
## WT/BR:AftLow 54.60000 cd  
## BLK:AftHigh 52.96957 d  
## WHT:AftHigh 52.81768 d  
## BRN:AftLow 49.73333 e  
## BLK:AftLow 48.90000 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM38 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 283.621 56.724 46.2145 1.524e-11 \*\*\*  
## THIregime 1 107.384 107.384 87.4881 1.783e-09 \*\*\*  
## Colour:THIregime 5 9.107 1.821 1.4839 0.232   
## Residuals 24 29.458 1.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227412   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.21735 1.387401 6 54.6 57.77142  
## BLK 50.75539 2.358162 6 48.2 53.29217  
## BRN 55.78516 2.403315 6 52.5 58.75623  
## WHT 50.31651 3.132129 6 46.1 53.81850  
## WT/BLK 57.84789 1.570379 6 55.9 59.79688  
## WT/BR 54.90699 1.910940 6 53.1 56.84363  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.977718   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.84789 a  
## BL/BR 56.21735 ab  
## BRN 55.78516 b  
## WT/BR 54.90699 b  
## BLK 50.75539 c  
## WHT 50.31651 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227412   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.03199 2.493935 18 52.2924 59.79688  
## AftLow 52.57778 3.568251 18 46.1000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7621883   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.03199 a  
## AftLow 52.57778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.19578 a  
## BL/BR:AftHigh 57.43470 ab  
## BRN:AftHigh 57.10366 ab  
## WT/BR:AftHigh 56.64732 ab  
## WT/BLK:AftLow 56.50000 ab  
## BL/BR:AftLow 55.00000 bc  
## BRN:AftLow 54.46667 bc  
## WT/BR:AftLow 53.16667 c  
## WHT:AftHigh 52.93302 c  
## BLK:AftHigh 52.87744 c  
## BLK:AftLow 48.63333 d  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM39 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 372.14 74.427 52.404 3.915e-12 \*\*\*  
## THIregime 1 117.92 117.918 83.026 2.927e-09 \*\*\*  
## Colour:THIregime 5 13.85 2.769 1.950 0.1231   
## Residuals 24 34.09 1.420   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.420249   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.21291 1.301992 6 56.1 59.55513  
## BLK 52.48353 1.837786 6 50.1 54.33604  
## BRN 51.28804 3.051184 6 48.2 54.38931  
## WHT 50.21166 3.028784 6 46.1 53.62249  
## WT/BLK 57.82629 2.570946 6 54.2 61.57406  
## WT/BR 56.60323 1.733358 6 54.6 58.72535  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.127411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.21291 a  
## WT/BLK 57.82629 a  
## WT/BR 56.60323 a  
## BLK 52.48353 b  
## BRN 51.28804 bc  
## WHT 50.21166 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.420249   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.24744 2.886625 18 52.06839 61.57406  
## AftLow 52.62778 4.046902 18 46.10000 58.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8198782   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.24744 a  
## AftLow 52.62778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.35259 a  
## BL/BR:AftHigh 59.19249 a  
## WT/BR:AftHigh 58.07313 ab  
## BL/BR:AftLow 57.23333 abc  
## WT/BLK:AftLow 56.30000 abc  
## WT/BR:AftLow 55.13333 bcd  
## BLK:AftHigh 54.10039 cde  
## BRN:AftHigh 54.04274 cde  
## WHT:AftHigh 52.72332 de  
## BLK:AftLow 50.86667 ef  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM40 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.793 46.759 32.0780 7.076e-10 \*\*\*  
## THIregime 1 106.965 106.965 73.3818 9.210e-09 \*\*\*  
## Colour:THIregime 5 5.327 1.065 0.7309 0.6073   
## Residuals 24 34.984 1.458   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.457655   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48619 1.595590 6 53.7 57.25058  
## BLK 52.52041 2.740572 6 49.1 55.96084  
## BRN 53.27497 2.067308 6 51.2 55.44802  
## WHT 50.11729 2.936528 6 46.1 53.44608  
## WT/BLK 58.29384 1.475770 6 56.3 60.03210  
## WT/BR 54.74970 2.079340 6 52.5 56.80878  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.155244   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.29384 a  
## BL/BR 55.48619 b  
## WT/BR 54.74970 bc  
## BRN 53.27497 cd  
## BLK 52.52041 d  
## WHT 50.11729 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.457655   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.79747 2.390896 18 51.86677 60.0321  
## AftLow 52.35000 3.226043 18 46.10000 57.8000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8306048   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.79747 a  
## AftLow 52.35000 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.52101 a  
## WT/BLK:AftLow 57.06667 ab  
## BL/BR:AftHigh 56.90571 ab  
## WT/BR:AftHigh 56.59941 ab  
## BRN:AftHigh 55.14995 bc  
## BLK:AftHigh 54.07415 bcd  
## BL/BR:AftLow 54.06667 bcd  
## WT/BR:AftLow 52.90000 cd  
## WHT:AftHigh 52.53459 cd  
## BRN:AftLow 51.40000 d  
## BLK:AftLow 50.96667 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM41 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 156.119 31.224 24.4454 1.083e-08 \*\*\*  
## THIregime 1 77.322 77.322 60.5361 5.146e-08 \*\*\*  
## Colour:THIregime 5 9.770 1.954 1.5298 0.218   
## Residuals 24 30.655 1.277   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.277287   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.62166 1.076734 6 55.4 57.73595  
## BLK 54.65087 1.113815 6 53.2 55.89696  
## BRN 53.82231 2.753009 6 49.1 56.87451  
## WHT 50.15574 2.974023 6 46.1 53.51795  
## WT/BLK 55.98525 1.464918 6 54.2 57.70608  
## WT/BR 54.82413 1.606089 6 52.6 56.43418  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.017499   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.62166 a  
## WT/BLK 55.98525 a  
## WT/BR 54.82413 ab  
## BLK 54.65087 ab  
## BRN 53.82231 b  
## WHT 50.15574 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.277287   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.80888 1.783460 18 51.94891 57.73595  
## AftLow 52.87778 2.894936 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7775195   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.80888 a  
## AftLow 52.87778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.57665 a  
## WT/BLK:AftHigh 57.27050 a  
## WT/BR:AftHigh 56.21493 ab  
## BL/BR:AftLow 55.66667 abc  
## BLK:AftHigh 55.60174 abc  
## BRN:AftHigh 55.57795 abc  
## WT/BLK:AftLow 54.70000 abcd  
## BLK:AftLow 53.70000 bcd  
## WT/BR:AftLow 53.43333 bcd  
## WHT:AftHigh 52.61148 cd  
## BRN:AftLow 52.06667 d  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM42 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 221.584 44.317 22.4735 2.455e-08 \*\*\*  
## THIregime 1 89.747 89.747 45.5117 5.606e-07 \*\*\*  
## Colour:THIregime 5 10.613 2.123 1.0764 0.3982   
## Residuals 24 47.327 1.972   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.971962   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.31276 1.724612 6 54.2 58.88506  
## BLK 53.92398 2.106250 6 50.2 56.14898  
## BRN 54.26946 2.399865 6 50.2 56.89352  
## WHT 50.25185 3.068300 6 46.1 53.69762  
## WT/BLK 57.73034 1.519648 6 55.8 59.56167  
## WT/BR 54.05179 2.154961 6 51.3 56.41675  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.506793   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.73034 a  
## BL/BR 57.31276 a  
## BRN 54.26946 b  
## WT/BR 54.05179 b  
## BLK 53.92398 b  
## WHT 50.25185 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.971962   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.16895 2.213951 18 52.15426 59.56167  
## AftLow 53.01111 3.397211 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9660873   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.16895 a  
## AftLow 53.01111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.02735 a  
## BL/BR:AftHigh 58.12552 a  
## BL/BR:AftLow 56.50000 ab  
## WT/BLK:AftLow 56.43333 ab  
## BRN:AftHigh 55.97225 abc  
## WT/BR:AftHigh 55.87024 abc  
## BLK:AftHigh 55.21463 abc  
## WHT:AftHigh 52.80370 bc  
## BLK:AftLow 52.63333 bc  
## BRN:AftLow 52.56667 bc  
## WT/BR:AftLow 52.23333 c  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM43 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 318.75 63.750 52.3542 3.956e-12 \*\*\*  
## THIregime 1 116.80 116.802 95.9221 7.370e-10 \*\*\*  
## Colour:THIregime 5 8.70 1.740 1.4292 0.2498   
## Residuals 24 29.22 1.218   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.217677   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.75829 1.525419 6 54.7 58.34825  
## BLK 50.73042 2.420967 6 48.1 53.40252  
## BRN 54.73788 2.600214 6 50.2 57.38201  
## WHT 50.34971 3.165026 6 46.1 53.88057  
## WT/BLK 58.26770 1.497646 6 56.1 59.97983  
## WT/BR 56.03016 1.932903 6 53.6 58.17651  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.969859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.26770 a  
## BL/BR 56.75829 ab  
## WT/BR 56.03016 bc  
## BRN 54.73788 c  
## BLK 50.73042 d  
## WHT 50.34971 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.217677   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28028 2.661122 18 52.36334 59.97983  
## AftLow 52.67778 3.728200 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7591595   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28028 a  
## AftLow 52.67778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.46874 a  
## BL/BR:AftHigh 58.08324 ab  
## WT/BR:AftHigh 57.72699 ab  
## WT/BLK:AftLow 57.06667 abc  
## BRN:AftHigh 56.50910 abc  
## BL/BR:AftLow 55.43333 bcd  
## WT/BR:AftLow 54.33333 cd  
## WHT:AftHigh 52.99943 d  
## BRN:AftLow 52.96667 d  
## BLK:AftHigh 52.89418 d  
## BLK:AftLow 48.56667 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM44 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 316.56 63.311 82.4947 2.562e-14 \*\*\*  
## THIregime 1 117.19 117.187 152.6951 6.796e-12 \*\*\*  
## Colour:THIregime 5 7.25 1.449 1.8881 0.1339   
## Residuals 24 18.42 0.767   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7674568   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.12992 1.462744 6 54.6 57.53434  
## BLK 51.04519 1.912824 6 49.2 52.80432  
## BRN 51.04275 2.795197 6 48.1 53.95690  
## WHT 50.00720 2.829896 6 46.1 53.24026  
## WT/BLK 57.51071 2.030796 6 54.8 60.42412  
## WT/BR 55.85619 1.681102 6 53.7 57.57018  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.563854   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.51071 a  
## BL/BR 56.12992 ab  
## WT/BR 55.85619 b  
## BLK 51.04519 c  
## BRN 51.04275 c  
## WHT 50.00720 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7674568   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.40287 2.727316 18 51.63156 60.42412  
## AftLow 51.79444 3.562628 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6026901   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.40287 a  
## AftLow 51.79444 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.95475 a  
## BL/BR:AftHigh 57.45984 ab  
## WT/BR:AftHigh 57.34571 abc  
## WT/BLK:AftLow 56.06667 bcd  
## BL/BR:AftLow 54.80000 cde  
## WT/BR:AftLow 54.36667 de  
## BRN:AftHigh 53.55217 de  
## BLK:AftHigh 52.79038 e  
## WHT:AftHigh 52.31440 e  
## BLK:AftLow 49.30000 f  
## BRN:AftLow 48.53333 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM45 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 371.55 74.310 140.8136 < 2.2e-16 \*\*\*  
## THIregime 1 118.70 118.695 224.9221 1.09e-13 \*\*\*  
## Colour:THIregime 5 12.42 2.483 4.7053 0.003896 \*\*   
## Residuals 24 12.67 0.528   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5277163   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.03109 1.360856 6 56.3 59.61767  
## BLK 51.98436 1.993385 6 50.1 53.87111  
## BRN 51.84182 2.898122 6 49.1 54.71624  
## WHT 50.22564 3.042514 6 46.1 53.64862  
## WT/BLK 58.13065 1.516642 6 56.1 60.00596  
## WT/BR 56.64784 1.724352 6 54.7 58.41695  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.296789   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.13065 a  
## BL/BR 58.03109 a  
## WT/BR 56.64784 b  
## BLK 51.98436 c  
## BRN 51.84182 c  
## WHT 50.22564 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5277163   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.29269 2.791857 18 52.09826 60.00596  
## AftLow 52.66111 3.941654 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4997667   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.29269 a  
## AftLow 52.66111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.36130 a  
## BL/BR:AftHigh 59.16217 a  
## WT/BR:AftHigh 58.19568 ab  
## BL/BR:AftLow 56.90000 bc  
## WT/BLK:AftLow 56.90000 bc  
## WT/BR:AftLow 55.10000 cd  
## BRN:AftHigh 54.48363 de  
## BLK:AftHigh 53.80206 de  
## WHT:AftHigh 52.75128 e  
## BLK:AftLow 50.16667 f  
## BRN:AftLow 49.20000 fg  
## WHT:AftLow 47.70000 g  
## [1] "---- RECTEM46 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 225.336 45.067 21.0846 4.525e-08 \*\*\*  
## THIregime 1 90.769 90.769 42.4660 9.703e-07 \*\*\*  
## Colour:THIregime 5 12.783 2.557 1.1961 0.3408   
## Residuals 24 51.299 2.137   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.137449   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.83539 1.687378 6 54.8 59.40195  
## BLK 53.23720 2.249643 6 49.4 55.65884  
## BRN 53.89152 3.071881 6 50.1 57.90471  
## WHT 50.32700 3.142509 6 46.1 53.83810  
## WT/BLK 55.84819 1.518513 6 53.9 57.60154  
## WT/BR 56.82131 1.201789 6 55.3 58.07197  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.609859   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.83539 a  
## WT/BR 56.82131 a  
## WT/BLK 55.84819 ab  
## BRN 53.89152 bc  
## BLK 53.23720 c  
## WHT 50.32700 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.137449   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.24798 2.178797 18 52.3148 59.40195  
## AftLow 53.07222 3.503915 18 46.1000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.005808   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.24798 a  
## AftLow 53.07222 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.73744 a  
## WT/BR:AftHigh 57.87596 a  
## WT/BLK:AftHigh 57.16305 ab  
## BL/BR:AftLow 56.93333 ab  
## BRN:AftHigh 55.94970 abc  
## WT/BR:AftLow 55.76667 abc  
## BLK:AftHigh 54.80774 abc  
## WT/BLK:AftLow 54.53333 abc  
## WHT:AftHigh 52.95399 bc  
## BRN:AftLow 51.83333 cd  
## BLK:AftLow 51.66667 cd  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM47 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 182.661 36.532 44.6716 2.193e-11 \*\*\*  
## THIregime 1 82.719 82.719 101.1492 4.396e-10 \*\*\*  
## Colour:THIregime 5 9.763 1.953 2.3876 0.06816 .   
## Residuals 24 19.627 0.818   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8177951   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.47946 1.427052 6 54.8 58.14664  
## BLK 55.36521 1.200136 6 53.3 56.56164  
## BRN 54.57480 1.865458 6 52.4 56.44115  
## WHT 50.23787 3.054541 6 46.1 53.67149  
## WT/BLK 57.24513 1.466926 6 55.5 58.75148  
## WT/BR 55.52589 1.995753 6 52.7 57.90645  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.614327   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.24513 a  
## BL/BR 56.47946 ab  
## WT/BR 55.52589 bc  
## BLK 55.36521 bc  
## BRN 54.57480 c  
## WHT 50.23787 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8177951   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.42056 1.934415 18 52.12439 58.75148  
## AftLow 53.38889 2.954934 18 46.10000 56.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6221417   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.42056 a  
## AftLow 53.38889 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.55692 a  
## BL/BR:AftHigh 57.69225 ab  
## WT/BR:AftHigh 57.01844 abc  
## BRN:AftHigh 56.24959 abcd  
## BLK:AftHigh 56.23042 abcd  
## WT/BLK:AftLow 55.93333 abcd  
## BL/BR:AftLow 55.26667 bcde  
## BLK:AftLow 54.50000 cde  
## WT/BR:AftLow 54.03333 de  
## BRN:AftLow 52.90000 e  
## WHT:AftHigh 52.77574 e  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM48 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 191.359 38.272 18.1667 1.827e-07 \*\*\*  
## THIregime 1 82.186 82.186 39.0119 1.867e-06 \*\*\*  
## Colour:THIregime 5 9.375 1.875 0.8901 0.5032   
## Residuals 24 50.561 2.107   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.106696   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91304 1.434407 6 54.6 58.60048  
## BLK 53.06228 2.271109 6 50.2 55.88708  
## BRN 55.29173 2.294138 6 51.2 57.47522  
## WHT 50.28331 3.099313 6 46.1 53.75643  
## WT/BLK 56.58562 1.888300 6 54.2 59.16964  
## WT/BR 55.66303 1.665689 6 53.2 57.38375  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.591016   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.91304 a  
## WT/BLK 56.58562 a  
## WT/BR 55.66303 a  
## BRN 55.29173 ab  
## BLK 53.06228 b  
## WHT 50.28331 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.106696   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.14411 2.064602 18 52.22146 59.16964  
## AftLow 53.12222 3.243374 18 46.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9985457   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.14411 a  
## AftLow 53.12222 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.95941 a  
## WT/BLK:AftHigh 57.67123 a  
## WT/BR:AftHigh 57.05938 ab  
## BRN:AftHigh 56.78346 ab  
## BL/BR:AftLow 55.86667 abc  
## WT/BLK:AftLow 55.50000 abc  
## BLK:AftHigh 54.52456 abc  
## WT/BR:AftLow 54.26667 abc  
## BRN:AftLow 53.80000 abc  
## WHT:AftHigh 52.86661 bc  
## BLK:AftLow 51.60000 cd  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM49 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 188.531 37.706 27.0288 4.008e-09 \*\*\*  
## THIregime 1 86.167 86.167 61.7666 4.315e-08 \*\*\*  
## Colour:THIregime 5 10.232 2.046 1.4669 0.2374   
## Residuals 24 33.481 1.395   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.395035   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51471 1.179693 6 54.9 57.76416  
## BLK 53.44649 2.323729 6 49.2 55.64829  
## BRN 52.11340 2.384058 6 49.3 54.47960  
## WHT 50.08759 2.907644 6 46.1 53.39054  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 54.97638 1.630163 6 53.2 56.63455  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.108442   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.51471 a  
## WT/BLK 56.24402 a  
## WT/BR 54.97638 ab  
## BLK 53.44649 bc  
## BRN 52.11340 cd  
## WHT 50.08759 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.395035   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.4442 1.996451 18 51.8033 57.93258  
## AftLow 52.3500 3.110561 18 46.1000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8125677   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.4442 a  
## AftLow 52.3500 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.52943 a  
## WT/BLK:AftHigh 57.35471 a  
## WT/BR:AftHigh 56.45276 ab  
## BL/BR:AftLow 55.50000 abc  
## WT/BLK:AftLow 55.13333 abc  
## BLK:AftHigh 54.59298 abc  
## BRN:AftHigh 54.26014 abc  
## WT/BR:AftLow 53.50000 bc  
## WHT:AftHigh 52.47517 cd  
## BLK:AftLow 52.30000 cd  
## BRN:AftLow 49.96667 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM50 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 255.736 51.147 32.8895 5.474e-10 \*\*\*  
## THIregime 1 106.995 106.995 68.8019 1.654e-08 \*\*\*  
## Colour:THIregime 5 7.298 1.460 0.9386 0.474   
## Residuals 24 37.323 1.555   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.555119   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.52388 1.277928 6 54.7 57.81809  
## BLK 50.61552 2.211105 6 48.3 52.95226  
## BRN 52.66268 3.131078 6 48.5 56.49516  
## WHT 50.12254 2.941634 6 46.1 53.45588  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 55.16077 1.639490 6 53.6 56.79136  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.226132   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## BL/BR 56.52388 a  
## WT/BR 55.16077 a  
## BRN 52.66268 b  
## BLK 50.61552 bc  
## WHT 50.12254 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.555119   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.35906 2.406103 18 51.87798 58.85602  
## AftLow 51.91111 3.446548 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.857924   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.35906 a  
## AftLow 51.91111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## BL/BR:AftHigh 57.61443 a  
## WT/BR:AftHigh 56.65487 ab  
## BL/BR:AftLow 55.43333 abc  
## WT/BLK:AftLow 55.36667 abc  
## BRN:AftHigh 54.65869 abc  
## WT/BR:AftLow 53.66667 bcd  
## BLK:AftHigh 52.59770 cd  
## WHT:AftHigh 52.54507 cd  
## BRN:AftLow 50.66667 de  
## BLK:AftLow 48.63333 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM51 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 279.655 55.931 74.1107 8.533e-14 \*\*\*  
## THIregime 1 101.322 101.322 134.2556 2.572e-11 \*\*\*  
## Colour:THIregime 5 10.454 2.091 2.7704 0.04107 \*   
## Residuals 24 18.113 0.755   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7546951   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.15303 1.488119 6 54.6 57.58661  
## BLK 53.87686 1.505029 6 51.3 55.51945  
## BRN 51.32693 2.773525 6 48.3 54.33704  
## WHT 49.99671 2.819801 6 46.1 53.22066  
## WT/BLK 58.06973 1.522321 6 56.1 59.97983  
## WT/BR 55.54262 1.880674 6 53.7 57.49700  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.550797   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.06973 a  
## BL/BR 56.15303 b  
## WT/BR 55.54262 b  
## BLK 53.87686 c  
## BRN 51.32693 d  
## WHT 49.99671 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7546951   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.83863 2.515090 18 51.60916 59.97983  
## AftLow 52.48333 3.435841 18 46.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5976581   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.83863 a  
## AftLow 52.48333 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.30612 a  
## BL/BR:AftHigh 57.50606 a  
## WT/BR:AftHigh 57.25191 ab  
## WT/BLK:AftLow 56.83333 ab  
## BLK:AftHigh 54.88705 bc  
## BL/BR:AftLow 54.80000 bcd  
## WT/BR:AftLow 53.83333 cd  
## BRN:AftHigh 53.78720 cd  
## BLK:AftLow 52.86667 cd  
## WHT:AftHigh 52.29343 d  
## BRN:AftLow 48.86667 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM52 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 273.289 54.658 17.9162 2.075e-07 \*\*\*  
## THIregime 1 103.523 103.523 33.9335 5.244e-06 \*\*\*  
## Colour:THIregime 5 9.115 1.823 0.5975 0.7021   
## Residuals 24 73.218 3.051   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.050747   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.24782 1.865883 6 53.9 59.15222  
## BLK 52.09504 3.136154 6 48.3 56.05377  
## BRN 54.83122 1.906666 6 52.4 56.98998  
## WHT 50.22389 3.040797 6 46.1 53.64535  
## WT/BLK 58.21776 2.016989 6 54.8 60.42412  
## WT/BR 54.52554 2.627551 6 51.4 58.11117  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.117972   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.21776 a  
## BL/BR 57.24782 ab  
## BRN 54.83122 bc  
## WT/BR 54.52554 bc  
## BLK 52.09504 cd  
## WHT 50.22389 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.050747   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.21931 2.617430 18 52.09452 60.42412  
## AftLow 52.82778 3.750734 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.201628   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.21931 a  
## AftLow 52.82778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.53553 a  
## BL/BR:AftHigh 58.16230 ab  
## WT/BLK:AftLow 56.90000 abc  
## BRN:AftHigh 56.49577 abc  
## WT/BR:AftHigh 56.48441 abc  
## BL/BR:AftLow 56.33333 abc  
## BLK:AftHigh 53.89008 bcd  
## BRN:AftLow 53.16667 bcd  
## WHT:AftHigh 52.74778 cde  
## WT/BR:AftLow 52.56667 cde  
## BLK:AftLow 50.30000 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM53 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 217.010 43.402 43.5738 2.861e-11 \*\*\*  
## THIregime 1 95.635 95.635 96.0139 7.302e-10 \*\*\*  
## Colour:THIregime 5 10.851 2.170 2.1787 0.09027 .   
## Residuals 24 23.905 0.996   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9960559   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48783 1.8788475 6 53.1 57.66874  
## BLK 55.10532 0.9199788 6 54.2 56.00208  
## BRN 52.86447 2.7468072 6 49.2 56.35751  
## WHT 50.20292 3.0202110 6 46.1 53.60615  
## WT/BLK 57.25390 1.7025530 6 54.8 59.27418  
## WT/BR 56.99822 1.4616857 6 55.2 58.55547  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.781603   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.25390 a  
## WT/BR 56.99822 a  
## BL/BR 55.48783 ab  
## BLK 55.10532 b  
## BRN 52.86447 c  
## WHT 50.20292 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9960559   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28200 2.179242 18 52.04972 59.27418  
## AftLow 53.02222 3.171853 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6866081   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28200 a  
## AftLow 53.02222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.64113 a  
## WT/BR:AftHigh 58.29644 ab  
## BL/BR:AftHigh 57.10899 abc  
## BLK:AftHigh 55.94397 abcd  
## WT/BLK:AftLow 55.86667 abcd  
## WT/BR:AftLow 55.70000 bcd  
## BRN:AftHigh 54.99562 cde  
## BLK:AftLow 54.26667 cde  
## BL/BR:AftLow 53.86667 de  
## WHT:AftHigh 52.70584 ef  
## BRN:AftLow 50.73333 f  
## WHT:AftLow 47.70000 g  
## [1] "---- RECTEM54 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.894 61.779 77.6514 5.059e-14 \*\*\*  
## THIregime 1 97.709 97.709 122.8132 6.371e-11 \*\*\*  
## Colour:THIregime 5 16.227 3.245 4.0792 0.008028 \*\*   
## Residuals 24 19.094 0.796   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7955926   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.38618 0.8952747 6 57.1 59.49488  
## BLK 50.78210 2.4686093 6 48.4 53.24280  
## BRN 55.51479 1.8230124 6 53.2 57.37678  
## WHT 50.44233 3.2571934 6 46.1 54.05371  
## WT/BLK 56.47040 1.4401588 6 54.6 58.21136  
## WT/BR 55.58901 1.9245305 6 52.8 57.94130  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.592262   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.38618 a  
## WT/BLK 56.47040 b  
## WT/BR 55.58901 b  
## BRN 55.51479 b  
## BLK 50.78210 c  
## WHT 50.44233 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7955926   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.17827 2.396940 18 52.56122 59.49488  
## AftLow 52.88333 3.808234 18 46.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6136383   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.17827 a  
## AftLow 52.88333 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.10569 a  
## WT/BLK:AftHigh 57.67414 ab  
## BL/BR:AftLow 57.66667 ab  
## BRN:AftHigh 57.12958 ab  
## WT/BR:AftHigh 56.94468 ab  
## WT/BLK:AftLow 55.26667 bc  
## WT/BR:AftLow 54.23333 c  
## BRN:AftLow 53.90000 c  
## WHT:AftHigh 53.18466 c  
## BLK:AftHigh 53.03086 c  
## BLK:AftLow 48.53333 d  
## WHT:AftLow 47.70000 d  
## [1] "---- RECTEM55 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 230.016 46.003 36.3663 1.931e-10 \*\*\*  
## THIregime 1 94.601 94.601 74.7840 7.742e-09 \*\*\*  
## Colour:THIregime 5 8.892 1.778 1.4058 0.2577   
## Residuals 24 30.360 1.265   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.264995   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.46633 1.350548 6 54.8 58.21136  
## BLK 51.22692 1.825242 6 49.3 52.95501  
## BRN 51.72400 2.635465 6 48.1 54.52284  
## WHT 49.95303 2.777857 6 46.1 53.13899  
## WT/BLK 55.94592 1.462462 6 53.8 57.82804  
## WT/BR 55.14346 2.194126 6 51.6 57.88903  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.007768   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.46633 a  
## WT/BLK 55.94592 a  
## WT/BR 55.14346 a  
## BRN 51.72400 b  
## BLK 51.22692 b  
## WHT 49.95303 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.264995   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03100 2.254802 18 51.51582 58.21136  
## AftLow 51.78889 3.279507 18 46.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7737692   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03100 a  
## AftLow 51.78889 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.46599 a  
## WT/BLK:AftHigh 57.05851 ab  
## WT/BR:AftHigh 56.58692 abc  
## BL/BR:AftLow 55.46667 abcd  
## WT/BLK:AftLow 54.83333 abcd  
## BRN:AftHigh 53.98134 bcd  
## WT/BR:AftLow 53.70000 cd  
## BLK:AftHigh 52.88717 d  
## WHT:AftHigh 52.20605 de  
## BLK:AftLow 49.56667 ef  
## BRN:AftLow 49.46667 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM56 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 193.229 38.646 17.2909 2.871e-07 \*\*\*  
## THIregime 1 79.012 79.012 35.3516 3.894e-06 \*\*\*  
## Colour:THIregime 5 10.347 2.069 0.9259 0.4815   
## Residuals 24 53.641 2.235   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.235032   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.81696 1.809840 6 53.1 56.54867  
## BLK 55.16304 2.084070 6 52.4 57.50000  
## BRN 52.73753 2.978253 6 48.4 56.34706  
## WHT 50.00545 2.828213 6 46.1 53.23700  
## WT/BLK 56.24402 1.545628 6 53.8 57.93258  
## WT/BR 56.85520 1.312770 6 55.2 58.28976  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.668769   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.85520 a  
## WT/BLK 56.24402 a  
## BLK 55.16304 ab  
## BL/BR 54.81696 ab  
## BRN 52.73753 b  
## WHT 50.00545 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.235032   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.78518 2.104691 18 51.62783 58.28976  
## AftLow 52.82222 3.271185 18 46.10000 57.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.028511   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.78518 a  
## AftLow 52.82222 b  
## data1[[i]] groups  
## WT/BR:AftHigh 58.01041 a  
## WT/BLK:AftHigh 57.35471 ab  
## BL/BR:AftHigh 56.46726 abc  
## BLK:AftHigh 55.89274 abc  
## WT/BR:AftLow 55.70000 abc  
## WT/BLK:AftLow 55.13333 abcd  
## BRN:AftHigh 54.67505 abcd  
## BLK:AftLow 54.43333 abcd  
## BL/BR:AftLow 53.16667 bcd  
## WHT:AftHigh 52.31090 cd  
## BRN:AftLow 50.80000 de  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM57 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 275.777 55.155 81.0909 3.108e-14 \*\*\*  
## THIregime 1 111.764 111.764 164.3182 3.150e-12 \*\*\*  
## Colour:THIregime 5 8.212 1.642 2.4148 0.06573 .   
## Residuals 24 16.324 0.680   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6801681   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.38619 1.500757 6 54.6 58.17651  
## BLK 50.62585 2.217676 6 48.2 53.01920  
## BRN 52.24786 2.438019 6 49.6 54.53662  
## WHT 50.15224 2.970609 6 46.1 53.51141  
## WT/BLK 56.72513 1.629820 6 54.9 58.85602  
## WT/BR 56.03458 1.632462 6 53.6 57.94130  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.472236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.72513 a  
## BL/BR 56.38619 a  
## WT/BR 56.03458 a  
## BRN 52.24786 b  
## BLK 50.62585 c  
## WHT 50.15224 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6801681   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.45728 2.434719 18 51.94145 58.85602  
## AftLow 51.93333 3.426025 18 46.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5673815   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.45728 a  
## AftLow 51.93333 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.08359 a  
## BL/BR:AftHigh 57.63905 ab  
## WT/BR:AftHigh 57.33583 abc  
## WT/BLK:AftLow 55.36667 bcd  
## BL/BR:AftLow 55.13333 cd  
## WT/BR:AftLow 54.73333 de  
## BRN:AftHigh 54.46238 de  
## BLK:AftHigh 52.61836 e  
## WHT:AftHigh 52.60449 e  
## BRN:AftLow 50.03333 f  
## BLK:AftLow 48.63333 f  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM58 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 242.189 48.438 30.9547 1.019e-09 \*\*\*  
## THIregime 1 111.028 111.028 70.9537 1.252e-08 \*\*\*  
## Colour:THIregime 5 4.392 0.878 0.5614 0.7284   
## Residuals 24 37.555 1.565   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.5648   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.48992 1.806572 6 52.5 56.42837  
## BLK 52.26993 1.611682 6 50.1 53.90963  
## BRN 51.40388 2.417495 6 49.2 53.81197  
## WHT 49.94079 2.766148 6 46.1 53.11612  
## WT/BLK 57.71083 2.259536 6 53.9 60.52866  
## WT/BR 55.25498 2.476413 6 51.6 58.54240  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.233051   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.71083 a  
## WT/BR 55.25498 b  
## BL/BR 54.48992 bc  
## BLK 52.26993 cd  
## BRN 51.40388 de  
## WHT 49.94079 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.5648   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.26789 2.542262 18 51.48968 60.52866  
## AftLow 51.75556 3.201695 18 46.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8605904   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.26789 a  
## AftLow 51.75556 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.08833 a  
## WT/BR:AftHigh 56.97662 ab  
## WT/BLK:AftLow 56.33333 abc  
## BL/BR:AftHigh 56.07983 abc  
## BLK:AftHigh 53.67319 bcd  
## BRN:AftHigh 53.60777 bcd  
## WT/BR:AftLow 53.53333 bcd  
## BL/BR:AftLow 52.90000 cd  
## WHT:AftHigh 52.18159 de  
## BLK:AftLow 50.86667 def  
## BRN:AftLow 49.20000 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM59 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 210.759 42.152 27.9678 2.847e-09 \*\*\*  
## THIregime 1 96.971 96.971 64.3407 3.011e-08 \*\*\*  
## Colour:THIregime 5 7.679 1.536 1.0191 0.4284   
## Residuals 24 36.172 1.507   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.507154   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.89163 1.676016 6 52.6 56.56195  
## BLK 52.35780 2.629966 6 49.1 55.61818  
## BRN 50.87711 2.604083 6 48.2 53.57200  
## WHT 49.91109 2.737779 6 46.1 53.06058  
## WT/BLK 55.76985 1.499148 6 53.8 57.39246  
## WT/BR 56.17326 1.383694 6 54.3 57.83676  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.191533   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.17326 a  
## WT/BLK 55.76985 a  
## BL/BR 54.89163 a  
## BLK 52.35780 b  
## BRN 50.87711 bc  
## WHT 49.91109 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.507154   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.97136 2.188906 18 51.42621 57.83676  
## AftLow 51.68889 3.191512 18 46.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8445898   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.97136 a  
## AftLow 51.68889 b  
## data1[[i]] groups  
## WT/BR:AftHigh 57.31318 a  
## WT/BLK:AftHigh 57.07303 a  
## BL/BR:AftHigh 56.34993 ab  
## WT/BR:AftLow 55.03333 abc  
## WT/BLK:AftLow 54.46667 abcd  
## BLK:AftHigh 53.74893 abcd  
## BL/BR:AftLow 53.43333 bcd  
## BRN:AftHigh 53.22089 bcd  
## WHT:AftHigh 52.12217 cde  
## BLK:AftLow 50.96667 def  
## BRN:AftLow 48.53333 ef  
## WHT:AftLow 47.70000 f  
## [1] "---- RECTEM60 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 105.837 21.167 124.5381 2.349e-16 \*\*\*  
## THIregime 1 86.710 86.710 510.1610 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 3.193 0.639 3.7575 0.01181 \*   
## Residuals 24 4.079 0.170   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1699665   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.53628 1.698587 6 54.7 58.40519  
## BLK 54.94854 1.425084 6 53.2 56.52420  
## BRN 53.53539 2.353132 6 51.2 56.01776  
## WHT 54.19653 1.751016 6 52.5 55.84676  
## WT/BLK 58.51145 1.413007 6 56.9 60.14535  
## WT/BR 56.95032 1.811245 6 54.6 58.84295  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.7359543   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.51145 a  
## WT/BR 56.95032 b  
## BL/BR 56.53628 b  
## BLK 54.94854 c  
## WHT 54.19653 d  
## BRN 53.53539 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1699665   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.33172 1.609034 18 55.44105 60.14535  
## AftLow 54.22778 2.016055 18 51.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2836278   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.33172 a  
## AftLow 54.22778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.75623 a  
## WT/BR:AftHigh 58.53398 b  
## BL/BR:AftHigh 58.03923 bc  
## WT/BLK:AftLow 57.26667 cd  
## BLK:AftHigh 56.19707 de  
## WHT:AftHigh 55.79306 e  
## BRN:AftHigh 55.67077 e  
## WT/BR:AftLow 55.36667 e  
## BL/BR:AftLow 55.03333 e  
## BLK:AftLow 53.70000 f  
## WHT:AftLow 52.60000 fg  
## BRN:AftLow 51.40000 g  
## [1] "---- RECTEM61 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 178.239 35.648 15.9905 5.807e-07 \*\*\*  
## THIregime 1 86.303 86.303 38.7127 1.979e-06 \*\*\*  
## Colour:THIregime 5 10.146 2.029 0.9102 0.4909   
## Residuals 24 53.504 2.229   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.229319   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.69792 0.8226568 6 56.8 58.46773  
## BLK 53.92812 2.1092220 6 50.2 56.15724  
## BRN 53.92026 2.8315519 6 49.1 57.06934  
## WHT 50.64482 2.6943360 6 47.8 53.18473  
## WT/BLK 56.48574 1.5142996 6 54.8 58.33332  
## WT/BR 54.67974 2.7008628 6 51.2 58.28105  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.665356   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.69792 a  
## WT/BLK 56.48574 ab  
## WT/BR 54.67974 b  
## BLK 53.92812 b  
## BRN 53.92026 b  
## WHT 50.64482 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.229319   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.10776 2.012474 18 53.02269 58.46773  
## AftLow 53.01111 3.190406 18 47.80000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.027196   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.10776 a  
## AftLow 53.01111 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.42918 a  
## WT/BLK:AftHigh 57.80481 a  
## BL/BR:AftLow 56.96667 ab  
## WT/BR:AftHigh 56.32615 abc  
## BRN:AftHigh 55.77386 abc  
## BLK:AftHigh 55.22290 abc  
## WT/BLK:AftLow 55.16667 abc  
## WHT:AftHigh 53.08964 bc  
## WT/BR:AftLow 53.03333 bc  
## BLK:AftLow 52.63333 bc  
## BRN:AftLow 52.06667 cd  
## WHT:AftLow 48.20000 d  
## [1] "---- RECTEM62 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 230.379 46.076 74.4306 8.132e-14 \*\*\*  
## THIregime 1 85.593 85.593 138.2669 1.901e-11 \*\*\*  
## Colour:THIregime 5 12.364 2.473 3.9944 0.008879 \*\*   
## Residuals 24 14.857 0.619   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.619044   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.19739 1.417834 6 55.6 59.37125  
## BLK 50.74421 2.435842 6 48.1 53.43156  
## BRN 51.89730 2.625785 6 49.2 54.80510  
## WHT 54.29707 1.509151 6 52.6 55.95177  
## WT/BLK 56.48347 1.392851 6 54.8 58.07197  
## WT/BR 54.49889 1.872667 6 51.6 56.40978  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.404526   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.19739 a  
## WT/BLK 56.48347 b  
## WT/BR 54.49889 c  
## WHT 54.29707 c  
## BRN 51.89730 d  
## BLK 50.74421 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.619044   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89500 2.087525 18 52.66203 59.37125  
## AftLow 52.81111 3.285599 18 48.10000 58.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5412873   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89500 a  
## AftLow 52.81111 b  
## data1[[i]] groups  
## BL/BR:AftHigh 58.82812 a  
## WT/BLK:AftHigh 57.70027 ab  
## BL/BR:AftLow 57.56667 abc  
## WT/BR:AftHigh 56.03112 bcd  
## WHT:AftHigh 55.62747 bcd  
## WT/BLK:AftLow 55.26667 cde  
## BRN:AftHigh 54.26128 def  
## WHT:AftLow 52.96667 ef  
## WT/BR:AftLow 52.96667 ef  
## BLK:AftHigh 52.92174 f  
## BRN:AftLow 49.53333 g  
## BLK:AftLow 48.56667 g  
## [1] "---- RECTEM63 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.037 46.607 94.1951 5.717e-15 \*\*\*  
## THIregime 1 84.795 84.795 171.3745 2.021e-12 \*\*\*  
## Colour:THIregime 5 11.466 2.293 4.6346 0.00422 \*\*   
## Residuals 24 11.875 0.495   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4947956   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.77680 1.224068 6 55.2 58.03463  
## BLK 51.26017 2.148305 6 49.2 53.25732  
## BRN 55.59846 1.675412 6 53.2 57.46651  
## WHT 50.27981 3.095863 6 46.1 53.74989  
## WT/BLK 55.14310 1.338860 6 53.7 56.52129  
## WT/BR 56.51676 1.153171 6 55.1 57.93258  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.255689   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.77680 a  
## WT/BR 56.51676 a  
## BRN 55.59846 ab  
## WT/BLK 55.14310 b  
## BLK 51.26017 c  
## WHT 50.27981 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4947956   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.79726 2.095956 18 52.214 58.03463  
## AftLow 52.72778 3.269252 18 46.100 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4839271   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.79726 a  
## AftLow 52.72778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.85359 a  
## WT/BR:AftHigh 57.50019 ab  
## BRN:AftHigh 56.99692 ab  
## WT/BLK:AftHigh 56.35287 ab  
## BL/BR:AftLow 55.70000 bc  
## WT/BR:AftLow 55.53333 bc  
## BRN:AftLow 54.20000 cd  
## WT/BLK:AftLow 53.93333 cd  
## BLK:AftHigh 53.22034 d  
## WHT:AftHigh 52.85962 d  
## BLK:AftLow 49.30000 e  
## WHT:AftLow 47.70000 e  
## [1] "---- RECTEM64 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 171.478 34.296 35.1876 2.721e-10 \*\*\*  
## THIregime 1 98.511 98.511 101.0731 4.428e-10 \*\*\*  
## Colour:THIregime 5 5.616 1.123 1.1523 0.3609   
## Residuals 24 23.392 0.975   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9746482   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.65330 1.973743 6 52.8 58.04874  
## BLK 52.06291 2.079457 6 50.1 54.02792  
## BRN 51.32738 2.804393 6 48.1 54.71624  
## WHT 53.93959 2.115613 6 50.2 56.13471  
## WT/BLK 57.46924 1.486529 6 55.6 59.14351  
## WT/BR 55.97283 1.653349 6 54.3 57.53882  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.762354   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.46924 a  
## WT/BR 55.97283 ab  
## BL/BR 55.65330 bc  
## WHT 53.93959 c  
## BLK 52.06291 d  
## BRN 51.32738 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9746482   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05842 1.997055 18 53.23264 59.14351  
## AftLow 52.75000 2.793743 18 48.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6791896   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05842 a  
## AftLow 52.75000 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.77181 a  
## WT/BR:AftHigh 57.47900 ab  
## BL/BR:AftHigh 57.07327 abc  
## WT/BLK:AftLow 56.16667 abcd  
## WHT:AftHigh 55.31252 bcde  
## WT/BR:AftLow 54.46667 cde  
## BL/BR:AftLow 54.23333 cde  
## BLK:AftHigh 53.95916 de  
## BRN:AftHigh 53.75476 de  
## WHT:AftLow 52.56667 ef  
## BLK:AftLow 50.16667 fg  
## BRN:AftLow 48.90000 g  
## [1] "---- RECTEM65 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 15.813 3.163 1.7208 0.1682   
## THIregime 1 63.655 63.655 34.6342 4.523e-06 \*\*\*  
## Colour:THIregime 5 0.673 0.135 0.0732 0.9957   
## Residuals 24 44.110 1.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.837923   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.99231 2.055013 6 51.6 57.44473  
## BLK 53.27303 2.280493 6 49.4 55.73434  
## BRN 54.37271 2.465828 6 49.9 56.84798  
## WHT 54.30749 1.538088 6 52.6 56.04389  
## WT/BLK 55.14310 1.338860 6 53.7 56.52129  
## WT/BR 55.15643 1.423129 6 53.1 56.73909  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.420097   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.15643 a  
## WT/BLK 55.14310 a  
## BL/BR 54.99231 a  
## BRN 54.37271 a  
## WHT 54.30749 a  
## BLK 53.27303 a  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.837923   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.87058 0.9504926 18 53.61595 57.44473  
## AftLow 53.21111 1.6312712 18 49.40000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9326758   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.87058 a  
## AftLow 53.21111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 56.35287 a  
## WT/BR:AftHigh 56.34619 a  
## BL/BR:AftHigh 56.28463 a  
## BRN:AftHigh 55.71209 a  
## WHT:AftHigh 55.64832 ab  
## BLK:AftHigh 54.87940 ab  
## WT/BR:AftLow 53.96667 ab  
## WT/BLK:AftLow 53.93333 ab  
## BL/BR:AftLow 53.70000 ab  
## BRN:AftLow 53.03333 ab  
## WHT:AftLow 52.96667 ab  
## BLK:AftLow 51.66667 b  
## [1] "---- RECTEM66 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 289.212 57.842 213.544 < 2.2e-16 \*\*\*  
## THIregime 1 91.913 91.913 339.326 1.148e-15 \*\*\*  
## Colour:THIregime 5 15.864 3.173 11.713 8.259e-06 \*\*\*  
## Residuals 24 6.501 0.271   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2708682   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.80855 1.262198 6 55.2 58.18232  
## BLK 55.18055 1.044629 6 53.3 56.19300  
## BRN 52.15678 2.566972 6 49.1 54.83646  
## WHT 49.26282 2.872209 6 46.2 52.29987  
## WT/BLK 57.46924 1.486529 6 55.6 59.14351  
## WT/BR 55.37586 1.767039 6 53.7 57.17031  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9290695   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.46924 a  
## BL/BR 56.80855 a  
## WT/BR 55.37586 b  
## BLK 55.18055 b  
## BRN 52.15678 c  
## WHT 49.26282 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2708682   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.97348 2.397619 18 51.40428 59.14351  
## AftLow 52.77778 3.546756 18 46.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.358052   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.97348 a  
## AftLow 52.77778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.77181 a  
## BL/BR:AftHigh 57.91710 ab  
## WT/BR:AftHigh 56.98504 bc  
## WT/BLK:AftLow 56.16667 c  
## BLK:AftHigh 55.86109 cd  
## BL/BR:AftLow 55.70000 cd  
## BLK:AftLow 54.50000 de  
## BRN:AftHigh 54.44689 de  
## WT/BR:AftLow 53.76667 e  
## WHT:AftHigh 51.85896 f  
## BRN:AftLow 49.86667 g  
## WHT:AftLow 46.66667 h  
## [1] "---- RECTEM67 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 280.831 56.166 58.5696 1.160e-12 \*\*\*  
## THIregime 1 108.680 108.680 113.3307 1.428e-10 \*\*\*  
## Colour:THIregime 5 7.140 1.428 1.4892 0.2303   
## Residuals 24 23.015 0.959   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9589637   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.15805 1.746098 6 53.6 58.14166  
## BLK 52.89967 2.152261 6 50.2 55.57869  
## BRN 51.42219 2.801539 6 48.3 54.36603  
## WHT 50.80606 2.444121 6 47.5 53.21783  
## WT/BLK 58.50071 1.685489 6 56.1 60.42412  
## WT/BR 56.10496 1.850080 6 53.7 57.95698  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.748116   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.50071 a  
## BL/BR 56.15805 b  
## WT/BR 56.10496 b  
## BLK 52.89967 c  
## BRN 51.42219 cd  
## WHT 50.80606 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9589637   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05277 2.63478 18 52.45668 60.42412  
## AftLow 52.57778 3.36916 18 47.50000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6737025   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05277 a  
## AftLow 52.57778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.90142 a  
## WT/BR:AftHigh 57.74325 a  
## BL/BR:AftHigh 57.58277 ab  
## WT/BLK:AftLow 57.10000 abc  
## BL/BR:AftLow 54.73333 bcd  
## WT/BR:AftLow 54.46667 cde  
## BLK:AftHigh 54.19933 de  
## BRN:AftHigh 53.94438 de  
## WHT:AftHigh 52.94545 de  
## BLK:AftLow 51.60000 ef  
## BRN:AftLow 48.90000 fg  
## WHT:AftLow 48.66667 g  
## [1] "---- RECTEM68 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 109.193 21.839 13.8996 1.978e-06 \*\*\*  
## THIregime 1 75.120 75.120 47.8116 3.765e-07 \*\*\*  
## Colour:THIregime 5 6.543 1.309 0.8329 0.5391   
## Residuals 24 37.708 1.571   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.571166   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.02469 2.252650 6 51.6 57.87036  
## BLK 53.60221 2.417026 6 49.2 55.95916  
## BRN 50.97369 2.601433 6 48.2 53.85901  
## WHT 54.83885 1.154199 6 53.6 56.04041  
## WT/BLK 56.13960 1.422200 6 54.2 57.96743  
## WT/BR 55.88812 1.683901 6 53.6 57.95436  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.237588   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.13960 a  
## WT/BR 55.88812 a  
## BL/BR 55.02469 ab  
## WHT 54.83885 ab  
## BLK 53.60221 b  
## BRN 50.97369 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.571166   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.85572 1.622351 18 53.01485 57.96743  
## AftLow 52.96667 2.528659 18 48.20000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8623391   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.85572 a  
## AftLow 52.96667 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.27921 a  
## WT/BR:AftHigh 57.24291 a  
## BL/BR:AftHigh 56.51604 ab  
## WHT:AftHigh 55.87771 abc  
## WT/BLK:AftLow 55.00000 abc  
## BLK:AftHigh 54.90443 abc  
## WT/BR:AftLow 54.53333 abc  
## WHT:AftLow 53.80000 abc  
## BL/BR:AftLow 53.53333 bc  
## BRN:AftHigh 53.31405 bc  
## BLK:AftLow 52.30000 cd  
## BRN:AftLow 48.63333 d  
## [1] "---- RECTEM69 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 157.641 31.528 29.1091 1.903e-09 \*\*\*  
## THIregime 1 82.660 82.660 76.3174 6.421e-09 \*\*\*  
## Colour:THIregime 5 5.948 1.190 1.0983 0.3871   
## Residuals 24 25.994 1.083   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.083103   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.92484 1.146994 6 54.3 57.37504  
## BLK 50.66587 1.996593 6 48.4 52.98436  
## BRN 52.67537 2.046585 6 50.1 54.77896  
## WHT 50.29690 2.346804 6 47.8 52.90844  
## WT/BLK 54.71224 1.313066 6 53.2 56.05086  
## WT/BR 54.41651 2.489624 6 51.2 57.64074  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.857822   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.92484 a  
## WT/BLK 54.71224 a  
## WT/BR 54.41651 ab  
## BRN 52.67537 b  
## BLK 50.66587 c  
## WHT 50.29690 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.083103   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.63058 1.885285 18 52.04132 57.64074  
## AftLow 51.60000 2.756383 18 47.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7159817   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.63058 a  
## AftLow 51.60000 b  
## data1[[i]] groups  
## BL/BR:AftHigh 56.81635 a  
## WT/BLK:AftHigh 55.89115 ab  
## WT/BR:AftHigh 55.79968 ab  
## BL/BR:AftLow 55.03333 abc  
## BRN:AftHigh 54.48408 abc  
## WT/BLK:AftLow 53.53333 bcd  
## WT/BR:AftLow 53.03333 bcd  
## BLK:AftHigh 52.39840 cd  
## WHT:AftHigh 52.39381 cd  
## BRN:AftLow 50.86667 de  
## BLK:AftLow 48.93333 e  
## WHT:AftLow 48.20000 e  
## [1] "---- RECTEM70 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 69.786 13.957 8.8500 7.200e-05 \*\*\*  
## THIregime 1 77.077 77.077 48.8731 3.147e-07 \*\*\*  
## Colour:THIregime 5 3.204 0.641 0.4064 0.8396   
## Residuals 24 37.850 1.577   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.577087   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.40489 1.230422 6 54.6 57.69955  
## BLK 53.50912 2.112598 6 50.1 55.82436  
## BRN 52.94478 3.079662 6 49.1 56.95862  
## WHT 54.79287 1.395488 6 53.2 56.14545  
## WT/BLK 56.76862 1.617219 6 54.6 58.85602  
## WT/BR 54.52575 1.897951 6 51.6 56.46205  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.241801   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.76862 a  
## BL/BR 56.40489 ab  
## WHT 54.79287 abc  
## WT/BR 54.52575 bc  
## BLK 53.50912 c  
## BRN 52.94478 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.577087   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.28756 1.404158 18 53.88166 58.85602  
## AftLow 53.36111 2.132698 18 49.10000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8639626   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.28756 a  
## AftLow 53.36111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.10391 a  
## BL/BR:AftHigh 57.44311 a  
## WT/BR:AftHigh 56.08484 ab  
## WHT:AftHigh 56.05241 ab  
## WT/BLK:AftLow 55.43333 abc  
## BL/BR:AftLow 55.36667 abc  
## BLK:AftHigh 55.11823 abc  
## BRN:AftHigh 54.92289 abc  
## WHT:AftLow 53.53333 bcd  
## WT/BR:AftLow 52.96667 bcd  
## BLK:AftLow 51.90000 cd  
## BRN:AftLow 50.96667 d  
## [1] "---- RECTEM71 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 105.245 21.049 14.1617 1.685e-06 \*\*\*  
## THIregime 1 81.104 81.104 54.5667 1.256e-07 \*\*\*  
## Colour:THIregime 5 5.780 1.156 0.7778 0.5754   
## Residuals 24 35.672 1.486   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.486328   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.27816 1.384899 6 54.6 57.88529  
## BLK 51.65836 2.359534 6 49.2 54.19528  
## BRN 55.16392 1.655661 6 53.2 57.00566  
## WHT 53.23635 3.121496 6 47.7 56.48894  
## WT/BLK 55.17371 1.805159 6 53.1 57.70608  
## WT/BR 56.49528 1.132415 6 55.1 57.89774  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.176339   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.49528 a  
## BL/BR 56.27816 a  
## WT/BLK 55.17371 ab  
## BRN 55.16392 ab  
## WHT 53.23635 bc  
## BLK 51.65836 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.486328   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.16859 1.552551 18 53.07692 57.89774  
## AftLow 53.16667 2.493757 18 47.70000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8387342   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.16859 a  
## AftLow 53.16667 b  
## data1[[i]] groups  
## WT/BR:AftHigh 57.45722 a  
## BL/BR:AftHigh 57.45631 a  
## BRN:AftHigh 56.62784 ab  
## WT/BLK:AftHigh 56.54743 ab  
## WT/BR:AftLow 55.53333 ab  
## WHT:AftHigh 55.13936 ab  
## BL/BR:AftLow 55.10000 ab  
## WT/BLK:AftLow 53.80000 bc  
## BLK:AftHigh 53.78338 bc  
## BRN:AftLow 53.70000 bc  
## WHT:AftLow 51.33333 cd  
## BLK:AftLow 49.53333 d  
## [1] "---- RECTEM72 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 28.608 5.722 7.3135 0.0002747 \*\*\*  
## THIregime 1 66.326 66.326 84.7805 2.403e-09 \*\*\*  
## Colour:THIregime 5 1.128 0.226 0.2885 0.9146921   
## Residuals 24 18.776 0.782   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7823319   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.38243 1.475418 6 54.2 58.02551  
## BLK 55.36487 1.449093 6 53.2 57.02396  
## BRN 54.33440 2.423920 6 50.2 56.97430  
## WHT 55.03790 1.395154 6 53.7 56.38813  
## WT/BLK 57.06022 1.637004 6 54.7 58.85602  
## WT/BR 55.89762 1.570934 6 54.3 57.39246  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.578937   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.06022 a  
## BL/BR 56.38243 ab  
## WT/BR 55.89762 abc  
## BLK 55.36487 bc  
## WHT 55.03790 bc  
## BRN 54.33440 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7823319   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.03692 0.9899879 18 54.78941 58.85602  
## AftLow 54.32222 1.3687932 18 50.20000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6085028   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.03692 a  
## AftLow 54.32222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.42044 a  
## BL/BR:AftHigh 57.59819 ab  
## WT/BR:AftHigh 57.32857 ab  
## BLK:AftHigh 56.52975 abc  
## WHT:AftHigh 56.30913 abcd  
## BRN:AftHigh 56.03547 abcd  
## WT/BLK:AftLow 55.70000 bcd  
## BL/BR:AftLow 55.16667 bcde  
## WT/BR:AftLow 54.46667 cde  
## BLK:AftLow 54.20000 cde  
## WHT:AftLow 53.76667 de  
## BRN:AftLow 52.63333 e  
## [1] "---- RECTEM73 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 226.286 45.257 38.8033 9.781e-11 \*\*\*  
## THIregime 1 101.162 101.162 86.7352 1.936e-09 \*\*\*  
## Colour:THIregime 5 9.264 1.853 1.5886 0.2013   
## Residuals 24 27.992 1.166   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.166326   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.82914 1.348690 6 53.8 57.47377  
## BLK 50.67733 2.117899 6 48.1 53.22538  
## BRN 50.87935 2.589192 6 48.1 53.82242  
## WHT 49.73959 2.683026 6 46.1 52.80017  
## WT/BLK 55.18034 2.356076 6 52.5 58.64694  
## WT/BR 55.11882 1.387569 6 53.1 56.67810  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.927876   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.82914 a  
## WT/BLK 55.18034 a  
## WT/BR 55.11882 a  
## BRN 50.87935 b  
## BLK 50.67733 b  
## WHT 49.73959 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.166326   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.58041 2.242448 18 51.32217 58.64694  
## AftLow 51.22778 3.236339 18 46.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7429797   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.58041 a  
## AftLow 51.22778 b  
## data1[[i]] groups  
## BL/BR:AftHigh 56.85828 a  
## WT/BLK:AftHigh 56.66068 a  
## WT/BR:AftHigh 56.27098 ab  
## BL/BR:AftLow 54.80000 abc  
## WT/BR:AftLow 53.96667 abc  
## WT/BLK:AftLow 53.70000 abc  
## BRN:AftHigh 53.19204 bc  
## BLK:AftHigh 52.45467 c  
## WHT:AftHigh 52.04584 cd  
## BLK:AftLow 48.90000 de  
## BRN:AftLow 48.56667 e  
## WHT:AftLow 47.43333 e  
## [1] "---- RECTEM74 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 95.999 19.200 5.8832 0.0011 \*\*   
## THIregime 1 78.104 78.104 23.9326 5.465e-05 \*\*\*  
## Colour:THIregime 5 4.897 0.979 0.3001 0.9080   
## Residuals 24 78.324 3.264   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.263508   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.85380 1.265841 6 54.6 57.04150  
## BLK 54.11930 2.313335 6 49.9 56.34445  
## BRN 51.51405 2.427937 6 49.2 53.87992  
## WHT 53.22208 3.042276 6 47.6 55.90451  
## WT/BLK 56.28359 2.806570 6 52.6 60.42412  
## WT/BR 55.14485 1.511289 6 53.7 56.60841  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.224865   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.28359 a  
## BL/BR 55.85380 a  
## WT/BR 55.14485 a  
## BLK 54.11930 ab  
## WHT 53.22208 ab  
## BRN 51.51405 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.263508   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.82922 1.848920 18 52.46041 60.42412  
## AftLow 52.88333 2.669049 18 47.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.242823   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.82922 a  
## AftLow 52.88333 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.83385 a  
## BL/BR:AftHigh 57.00759 ab  
## WT/BR:AftHigh 56.52304 ab  
## BLK:AftHigh 55.20527 ab  
## WT/BLK:AftLow 54.73333 ab  
## BL/BR:AftLow 54.70000 ab  
## WHT:AftHigh 54.67749 ab  
## WT/BR:AftLow 53.76667 abc  
## BRN:AftHigh 53.72810 abc  
## BLK:AftLow 53.03333 abc  
## WHT:AftLow 51.76667 bc  
## BRN:AftLow 49.30000 c  
## [1] "---- RECTEM75 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 134.603 26.921 162.7405 < 2.2e-16 \*\*\*  
## THIregime 1 88.768 88.768 536.6236 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 4.797 0.959 5.7993 0.001199 \*\*   
## Residuals 24 3.970 0.165   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1654201   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.33532 1.383699 6 54.7 57.79755  
## BLK 51.79708 2.173047 6 49.1 53.98620  
## BRN 52.35183 2.398055 6 50.1 54.69533  
## WHT 53.92017 1.645208 6 52.1 55.58915  
## WT/BLK 56.73151 1.373607 6 55.1 58.35074  
## WT/BR 55.85247 1.589362 6 53.7 57.46564  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.7260446   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.73151 a  
## BL/BR 56.33532 ab  
## WT/BR 55.85247 b  
## WHT 53.92017 c  
## BRN 52.35183 d  
## BLK 51.79708 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.1654201   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.06834 1.666156 18 53.23438 58.35074  
## AftLow 52.92778 2.378533 18 49.10000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2798087   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.06834 a  
## AftLow 52.92778 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.92968 a  
## BL/BR:AftHigh 57.57063 a  
## WT/BR:AftHigh 57.23826 a  
## WT/BLK:AftLow 55.53333 b  
## WHT:AftHigh 55.40700 b  
## BL/BR:AftLow 55.10000 b  
## BRN:AftHigh 54.53699 bc  
## WT/BR:AftLow 54.46667 bc  
## BLK:AftHigh 53.72749 c  
## WHT:AftLow 52.43333 d  
## BRN:AftLow 50.16667 e  
## BLK:AftLow 49.86667 e  
## [1] "---- RECTEM76 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 179.588 35.918 56.8425 1.612e-12 \*\*\*  
## THIregime 1 92.699 92.699 146.7026 1.031e-11 \*\*\*  
## Colour:THIregime 5 5.193 1.039 1.6437 0.1868   
## Residuals 24 15.165 0.632   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6318804   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.70723 1.363443 6 54.3 57.02004  
## BLK 50.79422 2.112577 6 48.3 52.92918  
## BRN 53.47764 2.473377 6 49.4 56.22161  
## WHT 50.69299 2.412902 6 48.1 52.98436  
## WT/BLK 55.68709 1.342726 6 54.3 57.00044  
## WT/BR 55.80217 1.595874 6 53.6 57.74528  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.419014   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.80217 a  
## BL/BR 55.70723 a  
## WT/BLK 55.68709 a  
## BRN 53.47764 b  
## BLK 50.79422 c  
## WHT 50.69299 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6318804   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.29822 1.988629 18 52.28568 57.74528  
## AftLow 52.08889 2.794088 18 48.10000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5468705   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.29822 a  
## AftLow 52.08889 b  
## data1[[i]] groups  
## WT/BR:AftHigh 57.07100 a  
## BL/BR:AftHigh 56.94778 a  
## WT/BLK:AftHigh 56.90751 a  
## BRN:AftHigh 55.28862 ab  
## WT/BR:AftLow 54.53333 bc  
## BL/BR:AftLow 54.46667 bc  
## WT/BLK:AftLow 54.46667 bc  
## WHT:AftHigh 52.88599 cd  
## BLK:AftHigh 52.68845 cd  
## BRN:AftLow 51.66667 d  
## BLK:AftLow 48.90000 e  
## WHT:AftLow 48.50000 e  
## [1] "---- RECTEM77 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 102.806 20.561 26.4737 4.929e-09 \*\*\*  
## THIregime 1 71.534 71.534 92.1035 1.091e-09 \*\*\*  
## Colour:THIregime 5 6.294 1.259 1.6207 0.1927   
## Residuals 24 18.640 0.777   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7766662   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.25564 2.469782 6 50.2 56.50387  
## BLK 50.80775 2.415010 6 48.2 53.40252  
## BRN 55.50102 1.321939 6 53.3 56.84600  
## WHT 54.53498 1.449447 6 52.6 55.98117  
## WT/BLK 55.08862 1.383054 6 53.1 56.74780  
## WT/BR 55.66975 1.264962 6 54.2 56.94817  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.573209   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.66975 a  
## BRN 55.50102 a  
## WT/BLK 55.08862 a  
## WHT 54.53498 ab  
## BL/BR 53.25564 b  
## BLK 50.80775 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7766662   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.55259 1.431982 18 52.74868 56.94817  
## AftLow 52.73333 2.337419 18 48.20000 55.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6062954   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.55259 a  
## AftLow 52.73333 b  
## data1[[i]] groups  
## WT/BR:AftHigh 56.80616 a  
## BRN:AftHigh 56.50205 ab  
## WT/BLK:AftHigh 56.21058 ab  
## WHT:AftHigh 55.80329 abc  
## BL/BR:AftHigh 55.01127 abcd  
## WT/BR:AftLow 54.53333 abcd  
## BRN:AftLow 54.50000 abcd  
## WT/BLK:AftLow 53.96667 bcde  
## WHT:AftLow 53.26667 cde  
## BLK:AftHigh 52.98217 de  
## BL/BR:AftLow 51.50000 e  
## BLK:AftLow 48.63333 f  
## [1] "---- RECTEM78 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)  
## Colour 5 1410791 282158 1.1457 0.3640  
## THIregime 1 389682 389682 1.5822 0.2205  
## Colour:THIregime 5 1405997 281199 1.1418 0.3659  
## Residuals 24 5910840 246285   
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 246285   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.12141 1.449429 6 55.3 58.90829  
## BLK 128.51323 85.222413 6 50.1 214.53350  
## BRN 53.48807 2.611130 6 50.2 56.66504  
## WHT 596.41995 1238.559093 6 54.2 3120.26810  
## WT/BLK 54.99298 1.344094 6 53.7 56.24252  
## WT/BR 56.30976 1.285145 6 54.3 57.72699  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 885.9071   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WHT 596.41995 a  
## BLK 128.51323 a  
## BL/BR 57.12141 a  
## WT/BR 56.30976 a  
## WT/BLK 54.99298 a  
## BRN 53.48807 a  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 246285   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 261.84846 716.508843 18 54.57463 3120.268  
## AftLow 53.76667 2.231591 18 50.10000 57.700  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 341.4177   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 261.84846 a  
## AftLow 53.76667 a  
## data1[[i]] groups  
## WHT:AftHigh 1137.93990 a  
## BLK:AftHigh 206.15979 a  
## BL/BR:AftHigh 58.10948 a  
## WT/BR:AftHigh 57.28618 a  
## WT/BLK:AftHigh 56.21929 a  
## BL/BR:AftLow 56.13333 a  
## BRN:AftHigh 55.37613 a  
## WT/BR:AftLow 55.33333 a  
## WHT:AftLow 54.90000 a  
## WT/BLK:AftLow 53.76667 a  
## BRN:AftLow 51.60000 a  
## BLK:AftLow 50.86667 a  
## [1] "---- RECTEM79 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 122.646 24.529 5.6261 0.0014355 \*\*   
## THIregime 1 70.024 70.024 16.0610 0.0005169 \*\*\*  
## Colour:THIregime 5 8.805 1.761 0.4039 0.8412622   
## Residuals 24 104.637 4.360   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.35989   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.70789 0.504437 6 58.2 59.37872  
## BLK 52.88973 3.016038 6 49.1 56.73909  
## BRN 54.09655 2.760965 6 49.2 56.95054  
## WHT 54.07282 3.926485 6 46.8 57.24872  
## WT/BLK 55.62175 1.378753 6 53.7 57.11369  
## WT/BR 54.57929 1.549545 6 53.1 56.04651  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.727408   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.70789 a  
## WT/BLK 55.62175 ab  
## WT/BR 54.57929 b  
## BRN 54.09655 b  
## WHT 54.07282 b  
## BLK 52.88973 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.35989   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.38934 1.829618 18 52.72923 59.37872  
## AftLow 53.60000 3.246537 18 46.80000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.436497   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.38934 a  
## AftLow 53.60000 b  
## data1[[i]] groups  
## BL/BR:AftHigh 59.14911 a  
## BL/BR:AftLow 58.26667 ab  
## WT/BLK:AftHigh 56.77684 abc  
## WT/BR:AftHigh 55.99191 abc  
## BRN:AftHigh 55.89310 abc  
## WHT:AftHigh 55.71231 abc  
## BLK:AftHigh 54.81280 abc  
## WT/BLK:AftLow 54.46667 abc  
## WT/BR:AftLow 53.16667 abc  
## WHT:AftLow 52.43333 bc  
## BRN:AftLow 52.30000 bc  
## BLK:AftLow 50.96667 c  
## [1] "---- RECTEM80 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 184.967 36.993 34.4640 3.377e-10 \*\*\*  
## THIregime 1 80.842 80.842 75.3143 7.254e-09 \*\*\*  
## Colour:THIregime 5 10.135 2.027 1.8884 0.1338   
## Residuals 24 25.761 1.073   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.073394   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.28788 1.9979029 6 53.5 58.79628  
## BLK 54.52547 0.9856685 6 53.2 55.63270  
## BRN 51.08450 2.7207374 6 48.3 53.88562  
## WHT 51.16133 2.4265018 6 47.3 53.79563  
## WT/BLK 55.91353 1.7443483 6 53.6 58.22878  
## WT/BR 56.31851 1.4322929 6 54.6 58.03277  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.849476   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.31851 a  
## BL/BR 56.28788 a  
## WT/BLK 55.91353 a  
## BLK 54.52547 a  
## WHT 51.16133 b  
## BRN 51.08450 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.073394   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.71374 2.019010 18 52.10572 58.79628  
## AftLow 52.71667 2.985898 18 47.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7127655   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.71374 a  
## AftLow 52.71667 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.54243 a  
## WT/BR:AftHigh 57.50368 a  
## WT/BLK:AftHigh 57.29373 a  
## BLK:AftHigh 55.35093 ab  
## WT/BR:AftLow 55.13333 ab  
## BL/BR:AftLow 55.03333 ab  
## WT/BLK:AftLow 54.53333 ab  
## BLK:AftLow 53.70000 b  
## BRN:AftHigh 53.53567 b  
## WHT:AftHigh 53.05599 b  
## WHT:AftLow 49.26667 c  
## BRN:AftLow 48.63333 c  
## [1] "---- RECTEM81 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 78.745 15.749 10.3318 2.240e-05 \*\*\*  
## THIregime 1 67.122 67.122 44.0334 7.294e-07 \*\*\*  
## Colour:THIregime 5 3.442 0.688 0.4516 0.8079   
## Residuals 24 36.584 1.524   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.524335   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.37527 1.042583 6 55.1 57.52967  
## BLK 53.84681 2.051829 6 50.2 55.99493  
## BRN 54.39809 1.978030 6 51.3 56.65023  
## WHT 51.72958 2.775524 6 47.3 54.97824  
## WT/BLK 55.73494 1.337531 6 54.2 57.09626  
## WT/BR 54.34142 1.651508 6 52.5 56.14669  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.203989   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.37527 a  
## WT/BLK 55.73494 ab  
## BRN 54.39809 ab  
## WT/BR 54.34142 ab  
## BLK 53.84681 bc  
## WHT 51.72958 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.524335   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.76981 1.421451 18 52.37827 57.52967  
## AftLow 53.03889 2.228463 18 47.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8493902   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.76981 a  
## AftLow 53.03889 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.28388 a  
## WT/BLK:AftHigh 56.93655 ab  
## BRN:AftHigh 55.92951 abc  
## WT/BR:AftHigh 55.78283 abc  
## BL/BR:AftLow 55.46667 abc  
## BLK:AftHigh 55.06029 abc  
## WT/BLK:AftLow 54.53333 abc  
## WHT:AftHigh 53.62584 bc  
## WT/BR:AftLow 52.90000 cd  
## BRN:AftLow 52.86667 cd  
## BLK:AftLow 52.63333 cd  
## WHT:AftLow 49.83333 d  
## [1] "---- RECTEM82 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.837 42.367 34.8597 2.999e-10 \*\*\*  
## THIregime 1 94.904 94.904 78.0868 5.193e-09 \*\*\*  
## Colour:THIregime 5 5.690 1.138 0.9363 0.4753   
## Residuals 24 29.169 1.215   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.215372   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.84857 1.908065 6 53.5 58.27452  
## BLK 50.42863 2.096097 6 48.1 52.76657  
## BRN 51.25318 2.535580 6 48.3 53.62902  
## WHT 51.39755 2.527390 6 47.3 54.31506  
## WT/BLK 56.48776 1.476138 6 54.3 58.17651  
## WT/BR 54.92620 1.709533 6 52.6 56.59970  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.967994   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.48776 a  
## BL/BR 55.84857 a  
## WT/BR 54.92620 a  
## WHT 51.39755 b  
## BRN 51.25318 b  
## BLK 50.42863 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.215372   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.01396 2.231545 18 52.00118 58.27452  
## AftLow 51.76667 3.087356 18 47.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7584407   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.01396 a  
## AftLow 51.76667 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.64219 a  
## BL/BR:AftHigh 57.03048 a  
## WT/BR:AftHigh 56.41908 ab  
## WT/BLK:AftLow 55.33333 abc  
## BL/BR:AftLow 54.66667 abc  
## BRN:AftHigh 53.53969 bc  
## WT/BR:AftLow 53.43333 bc  
## WHT:AftHigh 53.16176 c  
## BLK:AftHigh 52.29059 cd  
## WHT:AftLow 49.63333 de  
## BRN:AftLow 48.96667 e  
## BLK:AftLow 48.56667 e  
## [1] "---- RECTEM83 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 171.492 34.298 24.1710 1.210e-08 \*\*\*  
## THIregime 1 77.085 77.085 54.3240 1.305e-07 \*\*\*  
## Colour:THIregime 5 7.956 1.591 1.1214 0.3757   
## Residuals 24 34.056 1.419   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.418983   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.57414 1.239685 6 54.9 57.86870  
## BLK 51.21332 2.096974 6 49.2 53.15859  
## BRN 54.24060 2.410178 6 50.2 56.82272  
## WHT 51.65094 2.739848 6 47.3 54.78876  
## WT/BLK 54.32506 1.726428 6 51.6 56.13798  
## WT/BR 56.94241 1.260550 6 54.8 58.39430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.126463   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.94241 a  
## BL/BR 56.57414 a  
## WT/BLK 54.32506 b  
## BRN 54.24060 b  
## WHT 51.65094 c  
## BLK 51.21332 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.418983   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.62104 1.939893 18 52.54255 58.3943  
## AftLow 52.69444 2.965780 18 47.30000 57.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8195127   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.62104 a  
## AftLow 52.69444 b  
## data1[[i]] groups  
## WT/BR:AftHigh 57.65149 a  
## BL/BR:AftHigh 57.64828 a  
## WT/BR:AftLow 56.23333 ab  
## BRN:AftHigh 55.98120 abc  
## WT/BLK:AftHigh 55.65013 abc  
## BL/BR:AftLow 55.50000 abc  
## WHT:AftHigh 53.66854 bc  
## BLK:AftHigh 53.12663 bcd  
## WT/BLK:AftLow 53.00000 bcd  
## BRN:AftLow 52.50000 cde  
## WHT:AftLow 49.63333 de  
## BLK:AftLow 49.30000 e  
## [1] "---- RECTEM84 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 140.788 28.158 5.0662 0.002611 \*\*  
## THIregime 1 77.419 77.419 13.9295 0.001034 \*\*  
## Colour:THIregime 5 7.995 1.599 0.2877 0.915141   
## Residuals 24 133.389 5.558   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.557895   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.66915 1.430802 6 54.7 58.14664  
## BLK 52.01055 2.022075 6 50.1 53.92338  
## BRN 53.42883 2.684759 6 50.1 56.68682  
## WHT 52.10036 3.069632 6 47.3 55.74922  
## WT/BLK 56.01298 3.801421 6 50.1 59.29160  
## WT/BR 56.34359 2.557998 6 51.7 58.57376  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.208471   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.66915 a  
## WT/BR 56.34359 a  
## WT/BLK 56.01298 ab  
## BRN 53.42883 ab  
## WHT 52.10036 b  
## BLK 52.01055 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.557895   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89404 2.283576 18 52.37454 59.2916  
## AftLow 52.96111 3.373973 18 47.30000 58.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.621893   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89404 a  
## AftLow 52.96111 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.90496 a  
## WT/BR:AftHigh 57.52052 a  
## WT/BLK:AftHigh 56.69262 ab  
## BL/BR:AftLow 55.43333 ab  
## BRN:AftHigh 55.39099 ab  
## WT/BLK:AftLow 55.33333 ab  
## WT/BR:AftLow 55.16667 ab  
## WHT:AftHigh 54.00073 ab  
## BLK:AftHigh 53.85443 ab  
## BRN:AftLow 51.46667 ab  
## WHT:AftLow 50.20000 b  
## BLK:AftLow 50.16667 b  
## [1] "---- RECTEM85 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 143.171 28.634 95.3289 4.991e-15 \*\*\*  
## THIregime 1 63.528 63.528 211.4976 2.126e-13 \*\*\*  
## Colour:THIregime 5 9.291 1.858 6.1865 0.0008094 \*\*\*  
## Residuals 24 7.209 0.300   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3003717   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.46303 0.7366826 6 54.6 56.19678  
## BLK 50.76391 1.7615806 6 48.6 52.77441  
## BRN 50.40068 2.2774991 6 48.1 52.79793  
## WHT 50.01695 2.1598238 6 47.3 52.58710  
## WT/BLK 51.71383 1.3243425 6 50.2 53.21086  
## WT/BR 53.94537 0.8683371 6 53.1 54.96191  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.97836   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.46303 a  
## WT/BR 53.94537 b  
## WT/BLK 51.71383 c  
## BLK 50.76391 cd  
## BRN 50.40068 d  
## WHT 50.01695 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3003717   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.37904 1.613902 18 51.37768 56.19678  
## AftLow 50.72222 2.605324 18 47.30000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3770479   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.37904 a  
## AftLow 50.72222 b  
## data1[[i]] groups  
## BL/BR:AftHigh 56.12605 a  
## BL/BR:AftLow 54.80000 a  
## WT/BR:AftHigh 54.72408 ab  
## WT/BR:AftLow 53.16667 bc  
## WT/BLK:AftHigh 52.89434 c  
## BRN:AftHigh 52.46802 c  
## BLK:AftHigh 52.26115 c  
## WHT:AftHigh 51.80058 cd  
## WT/BLK:AftLow 50.53333 de  
## BLK:AftLow 49.26667 ef  
## BRN:AftLow 48.33333 f  
## WHT:AftLow 48.23333 f  
## [1] "---- RECTEM86 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 127.574 25.515 12.1848 5.982e-06 \*\*\*  
## THIregime 1 76.681 76.681 36.6194 3.003e-06 \*\*\*  
## Colour:THIregime 5 5.955 1.191 0.5687 0.7231   
## Residuals 24 50.256 2.094   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.093986   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.53834 2.037135 6 53.9 59.66330  
## BLK 55.80273 1.172551 6 54.3 57.02107  
## BRN 56.13177 1.783697 6 54.2 57.97614  
## WHT 52.40793 3.299629 6 47.3 56.32419  
## WT/BLK 58.35028 1.836107 6 55.3 60.40670  
## WT/BR 56.75903 1.900775 6 54.6 59.10430  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.583189   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.35028 a  
## BL/BR 57.53834 a  
## WT/BR 56.75903 a  
## BRN 56.13177 a  
## BLK 55.80273 a  
## WHT 52.40793 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.093986   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.62447 1.834550 18 53.21833 60.4067  
## AftLow 54.70556 2.728601 18 47.30000 58.3000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9955292   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.62447 a  
## AftLow 54.70556 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.43389 a  
## BL/BR:AftHigh 58.74336 ab  
## WT/BR:AftHigh 58.38472 ab  
## BRN:AftHigh 57.73021 ab  
## WT/BLK:AftLow 57.26667 ab  
## BLK:AftHigh 56.83879 ab  
## BL/BR:AftLow 56.33333 ab  
## WT/BR:AftLow 55.13333 b  
## BLK:AftLow 54.76667 b  
## WHT:AftHigh 54.61585 b  
## BRN:AftLow 54.53333 b  
## WHT:AftLow 50.20000 c  
## [1] "---- RECTEM87 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 254.343 50.869 54.1791 2.724e-12 \*\*\*  
## THIregime 1 108.960 108.960 116.0504 1.127e-10 \*\*\*  
## Colour:THIregime 5 3.590 0.718 0.7648 0.5841   
## Residuals 24 22.534 0.939   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9388987   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.64299 2.044590 6 53.1 58.01970  
## BLK 51.37455 2.273632 6 49.2 53.49835  
## BRN 55.62877 1.758705 6 53.4 57.37504  
## WHT 51.90375 2.943262 6 47.3 55.27553  
## WT/BLK 58.73997 1.436062 6 57.3 60.16277  
## WT/BR 57.21500 1.961841 6 54.3 59.56689  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.729731   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.73997 a  
## WT/BR 57.21500 ab  
## BL/BR 55.64299 b  
## BRN 55.62877 b  
## WHT 51.90375 c  
## BLK 51.37455 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9388987   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.82390 2.480307 18 52.97191 60.16277  
## AftLow 53.34444 3.216542 18 47.30000 57.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.666617   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.82390 a  
## AftLow 53.34444 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.04661 a  
## WT/BR:AftHigh 58.72999 ab  
## WT/BLK:AftLow 57.43333 abc  
## BL/BR:AftHigh 57.41932 abc  
## BRN:AftHigh 57.19088 bc  
## WT/BR:AftLow 55.70000 cd  
## WHT:AftHigh 54.10750 d  
## BRN:AftLow 54.06667 d  
## BL/BR:AftLow 53.86667 d  
## BLK:AftHigh 53.44910 d  
## WHT:AftLow 49.70000 e  
## BLK:AftLow 49.30000 e  
## [1] "---- RECTEM88 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 306.097 61.219 48.730 8.609e-12 \*\*\*  
## THIregime 1 108.559 108.559 86.412 2.006e-09 \*\*\*  
## Colour:THIregime 5 10.201 2.040 1.624 0.1918   
## Residuals 24 30.151 1.256   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.256298   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.62718 1.126015 6 57.1 59.91884  
## BLK 52.22139 2.253144 6 50.1 54.34429  
## BRN 56.19389 1.850137 6 54.2 58.08939  
## WHT 51.18315 2.986122 6 47.3 54.39565  
## WT/BLK 58.78347 1.484246 6 57.1 60.55480  
## WT/BR 56.27675 2.982416 6 51.5 59.97983  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.000854   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.78347 a  
## BL/BR 58.62718 a  
## WT/BR 56.27675 b  
## BRN 56.19389 b  
## BLK 52.22139 c  
## WHT 51.18315 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.256298   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 57.28417 2.594470 18 53.3154 60.5548  
## AftLow 53.81111 3.694334 18 47.3000 58.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7711047   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 57.28417 a  
## AftLow 53.81111 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.06694 a  
## BL/BR:AftHigh 59.58770 a  
## WT/BR:AftHigh 58.12017 a  
## BRN:AftHigh 57.85444 a  
## BL/BR:AftLow 57.66667 ab  
## WT/BLK:AftLow 57.50000 abc  
## BRN:AftLow 54.53333 bcd  
## WT/BR:AftLow 54.43333 bcd  
## BLK:AftHigh 54.27612 cd  
## WHT:AftHigh 53.79962 d  
## BLK:AftLow 50.16667 e  
## WHT:AftLow 48.56667 e  
## [1] "---- RECTEM89 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 144.186 28.837 11.5270 9.406e-06 \*\*\*  
## THIregime 1 81.616 81.616 32.6240 6.950e-06 \*\*\*  
## Colour:THIregime 5 5.952 1.190 0.4758 0.7906   
## Residuals 24 60.041 2.502   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.501712   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.62150 1.486025 6 54.8 58.48432  
## BLK 53.10491 2.138145 6 49.4 55.38007  
## BRN 52.19708 2.506138 6 49.4 54.82600  
## WHT 52.00076 2.999527 6 47.3 55.56301  
## WT/BLK 56.07875 1.358939 6 54.6 57.58412  
## WT/BR 56.39784 2.370071 6 53.1 59.32645  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.8235   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.62150 a  
## WT/BR 56.39784 a  
## WT/BLK 56.07875 a  
## BLK 53.10491 b  
## BRN 52.19708 b  
## WHT 52.00076 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.501712   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.90583 1.933756 18 52.34841 59.32645  
## AftLow 52.89444 2.936679 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.088142   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.90583 a  
## AftLow 52.89444 b  
## data1[[i]] groups  
## BL/BR:AftHigh 57.77633 a  
## WT/BR:AftHigh 57.56234 a  
## WT/BLK:AftHigh 57.29082 a  
## BL/BR:AftLow 55.46667 ab  
## WT/BR:AftLow 55.23333 ab  
## WT/BLK:AftLow 54.86667 ab  
## BLK:AftHigh 54.54315 abc  
## BRN:AftHigh 54.46083 abc  
## WHT:AftHigh 53.80151 abc  
## BLK:AftLow 51.66667 bc  
## WHT:AftLow 50.20000 c  
## BRN:AftLow 49.93333 c  
## [1] "---- RECTEM90 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 161.398 32.280 27.5124 3.357e-09 \*\*\*  
## THIregime 1 76.506 76.506 65.2072 2.674e-08 \*\*\*  
## Colour:THIregime 5 7.853 1.571 1.3386 0.2821   
## Residuals 24 28.159 1.173   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.173271   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.79634 1.303279 6 55.2 58.12424  
## BLK 55.44100 1.267826 6 53.3 56.71295  
## BRN 55.65102 1.727137 6 53.2 57.56234  
## WHT 51.25685 2.726608 6 47.3 53.97400  
## WT/BLK 58.14795 1.918257 6 55.1 60.42412  
## WT/BR 54.98694 2.258395 6 51.4 57.46215  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.933608   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.14795 a  
## BL/BR 56.79634 ab  
## BRN 55.65102 b  
## BLK 55.44100 b  
## WT/BR 54.98694 b  
## WHT 51.25685 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.173271   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.83781 1.902285 18 52.86364 60.42412  
## AftLow 53.92222 2.827295 18 47.30000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7451888   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.83781 a  
## AftLow 53.92222 b  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.26256 a  
## BL/BR:AftHigh 57.95934 ab  
## BRN:AftHigh 57.10204 abc  
## WT/BLK:AftLow 57.03333 abc  
## WT/BR:AftHigh 56.74054 abcd  
## BLK:AftHigh 56.38200 abcde  
## BL/BR:AftLow 55.63333 bcde  
## BLK:AftLow 54.50000 cde  
## BRN:AftLow 54.20000 cde  
## WHT:AftHigh 53.58036 de  
## WT/BR:AftLow 53.23333 e  
## WHT:AftLow 48.93333 f  
## [1] "---- ...94 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 218.032 43.606 15.9893 5.811e-07 \*\*\*  
## THIregime 1 95.833 95.833 35.1394 4.070e-06 \*\*\*  
## Colour:THIregime 5 7.364 1.473 0.5401 0.744   
## Residuals 24 65.453 2.727   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.72722   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.09469 1.829571 6 53.7 58.25201  
## BLK 52.96444 2.198633 6 50.2 55.70153  
## BRN 51.45400 2.938675 6 48.1 54.99327  
## WHT 51.97658 2.977107 6 47.3 55.51074  
## WT/BLK 57.06022 1.766970 6 54.3 59.11737  
## WT/BR 57.53950 2.219822 6 53.6 59.92756  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.948012   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.53950 a  
## WT/BLK 57.06022 a  
## BL/BR 56.09469 a  
## BLK 52.96444 b  
## WHT 51.97658 b  
## BRN 51.45400 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.72722   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.14648 2.398832 18 52.35214 59.92756  
## AftLow 52.88333 3.369631 18 47.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.136128   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.14648 a  
## AftLow 52.88333 b  
## data1[[i]] groups  
## WT/BR:AftHigh 58.74567 a  
## WT/BLK:AftHigh 58.42044 ab  
## BL/BR:AftHigh 57.58937 ab  
## WT/BR:AftLow 56.33333 abc  
## WT/BLK:AftLow 55.70000 abc  
## BL/BR:AftLow 54.60000 abcd  
## BLK:AftHigh 54.32887 abcd  
## BRN:AftHigh 54.00800 abcd  
## WHT:AftHigh 53.78649 bcd  
## BLK:AftLow 51.60000 cde  
## WHT:AftLow 50.16667 de  
## BRN:AftLow 48.90000 e  
## [1] "---- ...95 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 77.453 15.491 5.9266 0.001052 \*\*   
## THIregime 1 63.814 63.814 24.4147 4.826e-05 \*\*\*  
## Colour:THIregime 5 4.744 0.949 0.3630 0.868695   
## Residuals 24 62.730 2.614   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.613738   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.91400 1.496437 6 54.8 58.66187  
## BLK 53.02521 2.886466 6 49.3 56.58228  
## BRN 54.71435 2.692347 6 49.9 57.47087  
## WHT 56.56720 1.276805 6 55.1 57.93756  
## WT/BLK 55.39310 2.018551 6 52.4 58.08939  
## WT/BR 57.27447 1.653175 6 54.3 58.92920  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.886026   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.27447 a  
## BL/BR 56.91400 a  
## WHT 56.56720 a  
## WT/BLK 55.39310 ab  
## BRN 54.71435 ab  
## BLK 53.02521 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.613738   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.97945 1.545804 18 54.14301 58.9292  
## AftLow 54.31667 2.477012 18 49.30000 57.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.112239   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.97945 a  
## AftLow 54.31667 b  
## data1[[i]] groups  
## WT/BR:AftHigh 58.31561 a  
## BL/BR:AftHigh 58.12801 a  
## WHT:AftHigh 57.70106 ab  
## BRN:AftHigh 56.39537 ab  
## WT/BLK:AftHigh 56.35287 ab  
## WT/BR:AftLow 56.23333 ab  
## BL/BR:AftLow 55.70000 abc  
## WHT:AftLow 55.43333 abc  
## BLK:AftHigh 54.98376 abc  
## WT/BLK:AftLow 54.43333 abc  
## BRN:AftLow 53.03333 bc  
## BLK:AftLow 51.06667 c