Analysis of Variance for Doe Afternoon

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## Working with Doe 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 5 425.25 85.051 88.9058 1.101e-14 \*\*\*  
## THIregime 1 135.61 135.610 141.7568 1.470e-11 \*\*\*  
## Colour:THIregime 5 7.24 1.448 1.5137 0.2228   
## Residuals 24 22.96 0.957   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9566379   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.74739 2.386508 6 49.3 54.40654  
## BLK 49.17870 2.137449 6 46.1 51.77219  
## BRN 50.02553 2.529437 6 46.5 52.63962  
## WHT 47.08083 2.944958 6 44.1 50.01912  
## WT/BLK 57.24800 2.150314 6 53.7 59.77075  
## WT/BR 54.79806 1.789723 6 53.1 56.54569  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.745995   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.24800 a  
## WT/BR 54.79806 b  
## BL/BR 51.74739 c  
## BRN 50.02553 cd  
## BLK 49.17870 d  
## WHT 47.08083 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9566379   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.62061 3.215132 18 49.59193 59.77075  
## AftLow 49.73889 4.056388 18 44.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.672885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.62061 a  
## AftLow 49.73889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9566379 24 51.67975 1.892576 2.879448  
##   
## $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 53.89477 0.4633974 3 53.50357 54.40654 53.63889 53.77421  
## BL/BR:AftLow 49.60000 0.4358899 3 49.30000 50.10000 49.35000 49.40000  
## BLK:AftHigh 50.92406 0.8885322 3 50.00000 51.77219 50.50000 51.00000  
## BLK:AftLow 47.43333 1.2220202 3 46.10000 48.50000 46.90000 47.70000  
## BRN:AftHigh 52.18440 0.7679261 3 51.29778 52.63962 51.95678 52.61579  
## BRN:AftLow 47.86667 1.1930353 3 46.50000 48.70000 47.45000 48.40000  
## WHT:AftHigh 49.76166 0.2267078 3 49.59193 50.01912 49.63293 49.67392  
## WHT:AftLow 44.40000 0.2645751 3 44.10000 44.60000 44.30000 44.50000  
## WT/BLK:AftHigh 58.52933 1.3344854 3 57.11804 59.77075 57.90863 58.69921  
## WT/BLK:AftLow 55.96667 2.2030282 3 53.70000 58.10000 54.90000 56.10000  
## WT/BR:AftHigh 56.42945 0.1006828 3 56.36946 56.54569 56.37133 56.37320  
## WT/BR:AftLow 53.16667 0.1154701 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 54.09038  
## BL/BR:AftLow 49.75000  
## BLK:AftHigh 51.38610  
## BLK:AftLow 48.10000  
## BRN:AftHigh 52.62770  
## BRN:AftLow 48.55000  
## WHT:AftHigh 49.84652  
## WHT:AftLow 44.55000  
## WT/BLK:AftHigh 59.23498  
## WT/BLK:AftLow 57.10000  
## WT/BR:AftHigh 56.45944  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.52933 a  
## WT/BR:AftHigh 56.42945 ab  
## WT/BLK:AftLow 55.96667 abc  
## BL/BR:AftHigh 53.89477 bcd  
## WT/BR:AftLow 53.16667 cde  
## BRN:AftHigh 52.18440 def  
## BLK:AftHigh 50.92406 ef  
## WHT:AftHigh 49.76166 fg  
## BL/BR:AftLow 49.60000 fg  
## BRN:AftLow 47.86667 g  
## BLK:AftLow 47.43333 g  
## WHT:AftLow 44.40000 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT2 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 303.970 60.794 13.1145 3.243e-06 \*\*\*  
## THIregime 1 67.348 67.348 14.5283 0.000847 \*\*\*  
## Colour:THIregime 5 21.320 4.264 0.9198 0.485131   
## Residuals 24 111.256 4.636   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.635652   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.07512 3.2835042 6 49.3 58.07720  
## BLK 52.68843 2.7893592 6 47.6 54.83598  
## BRN 50.05302 2.4577121 6 47.4 52.52015  
## WHT 47.47564 2.9066968 6 44.6 50.30834  
## WT/BLK 53.67241 2.4394517 6 49.6 55.88970  
## WT/BR 55.87531 0.9913321 6 54.6 56.98475  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.84348   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.87531 a  
## BL/BR 55.07512 a  
## WT/BLK 53.67241 ab  
## BLK 52.68843 ab  
## BRN 50.05302 bc  
## WHT 47.47564 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.635652   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.84109 2.629208 18 49.8075 58.0772  
## AftLow 51.10556 4.332025 18 44.6000 57.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.48123   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.84109 a  
## AftLow 51.10556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.635652 24 52.47332 4.103145 6.338563  
##   
## $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 56.08358 2.3998354 3 53.41994 58.07720 55.08677 56.75360  
## BL/BR:AftLow 54.06667 4.2594992 3 49.30000 57.50000 52.35000 55.40000  
## BLK:AftHigh 53.61019 1.9542402 3 51.35652 54.83598 52.99729 54.63806  
## BLK:AftLow 51.76667 3.6170891 3 47.60000 54.10000 50.60000 53.60000  
## BRN:AftHigh 52.27270 0.3414069 3 51.88320 52.52015 52.14897 52.41475  
## BRN:AftLow 47.83333 0.4509250 3 47.40000 48.30000 47.60000 47.80000  
## WHT:AftHigh 50.11795 0.2711440 3 49.80750 50.30834 50.02275 50.23800  
## WHT:AftLow 44.83333 0.3214550 3 44.60000 45.20000 44.65000 44.70000  
## WT/BLK:AftHigh 54.34483 2.2002018 3 51.82571 55.88970 53.57239 55.31908  
## WT/BLK:AftLow 53.00000 2.9461840 3 49.60000 54.80000 52.10000 54.60000  
## WT/BR:AftHigh 56.61729 0.3192563 3 56.40804 56.98475 56.43355 56.45907  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.41540  
## BL/BR:AftLow 56.45000  
## BLK:AftHigh 54.73702  
## BLK:AftLow 53.85000  
## BRN:AftHigh 52.46745  
## BRN:AftLow 48.05000  
## WHT:AftHigh 50.27317  
## WHT:AftLow 44.95000  
## WT/BLK:AftHigh 55.60439  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 56.72191  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.61729 a  
## BL/BR:AftHigh 56.08358 ab  
## WT/BR:AftLow 55.13333 ab  
## WT/BLK:AftHigh 54.34483 ab  
## BL/BR:AftLow 54.06667 abc  
## BLK:AftHigh 53.61019 abc  
## WT/BLK:AftLow 53.00000 abc  
## BRN:AftHigh 52.27270 abc  
## BLK:AftLow 51.76667 abc  
## WHT:AftHigh 50.11795 bcd  
## BRN:AftLow 47.83333 cd  
## WHT:AftLow 44.83333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT3 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 156.576 31.315 8.5913 8.933e-05 \*\*\*  
## THIregime 1 47.256 47.256 12.9648 0.001435 \*\*   
## Colour:THIregime 5 12.107 2.421 0.6643 0.654022   
## Residuals 24 87.479 3.645   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.644978   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 50.94216 1.8381346 6 49.1 52.65549  
## BLK 53.60855 1.3058245 6 52.1 54.92332  
## BRN 57.12199 0.6386825 6 56.2 57.83302  
## WHT 51.06598 3.6539371 6 44.5 54.83123  
## WT/BLK 52.46638 3.0440693 6 49.3 56.15105  
## WT/BR 53.80260 1.1221134 6 52.5 55.24939  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.408134   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.12199 a  
## WT/BR 53.80260 ab  
## BLK 53.60855 b  
## WT/BLK 52.46638 b  
## WHT 51.06598 b  
## BL/BR 50.94216 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.644978   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.31367 1.990439 18 50.78031 57.83302  
## AftLow 52.02222 3.332647 18 44.50000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.313453   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.31367 a  
## AftLow 52.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.644978 24 53.16794 3.590853 5.620603  
##   
## $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 52.61764 0.04156122 3 52.57317 52.65549 52.59872 52.62427  
## BL/BR:AftLow 49.26667 0.15275252 3 49.10000 49.40000 49.20000 49.30000  
## BLK:AftHigh 54.78376 0.16191433 3 54.60624 54.92332 54.71398 54.82173  
## BLK:AftLow 52.43333 0.30550505 3 52.10000 52.70000 52.30000 52.50000  
## BRN:AftHigh 57.37732 0.49079404 3 56.85770 57.83302 57.14947 57.44125  
## BRN:AftLow 56.86667 0.76376262 3 56.20000 57.70000 56.45000 56.70000  
## WHT:AftHigh 53.09863 2.08801565 3 50.78031 54.83123 52.23233 53.68436  
## WHT:AftLow 49.03333 4.07717222 3 44.50000 52.40000 47.35000 50.20000  
## WT/BLK:AftHigh 53.29943 2.47197411 3 51.76472 56.15105 51.87362 51.98252  
## WT/BLK:AftLow 51.63333 3.86953916 3 49.30000 56.10000 49.40000 49.50000  
## WT/BR:AftHigh 54.70520 0.47305660 3 54.39216 55.24939 54.43311 54.47405  
## WT/BR:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 52.63988  
## BL/BR:AftLow 49.35000  
## BLK:AftHigh 54.87253  
## BLK:AftLow 52.60000  
## BRN:AftHigh 57.63713  
## BRN:AftLow 57.20000  
## WHT:AftHigh 54.25780  
## WHT:AftLow 51.30000  
## WT/BLK:AftHigh 54.06678  
## WT/BLK:AftLow 52.80000  
## WT/BR:AftHigh 54.86172  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 57.37732 a  
## BRN:AftLow 56.86667 ab  
## BLK:AftHigh 54.78376 abc  
## WT/BR:AftHigh 54.70520 abc  
## WT/BLK:AftHigh 53.29943 abcd  
## WHT:AftHigh 53.09863 abcd  
## WT/BR:AftLow 52.90000 abcd  
## BL/BR:AftHigh 52.61764 abcd  
## BLK:AftLow 52.43333 abcd  
## WT/BLK:AftLow 51.63333 bcd  
## BL/BR:AftLow 49.26667 cd  
## WHT:AftLow 49.03333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT4 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.761 55.752 72.3393 1.118e-13 \*\*\*  
## THIregime 1 92.377 92.377 119.8607 8.145e-11 \*\*\*  
## Colour:THIregime 5 19.509 3.902 5.0626 0.002622 \*\*   
## Residuals 24 18.497 0.771   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7707045   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.08343 2.284834 6 50.3 56.04651  
## BLK 50.58348 2.293967 6 48.1 52.76894  
## BRN 57.60819 1.180716 6 55.5 58.68876  
## WHT 49.41669 3.133197 6 45.9 52.76330  
## WT/BLK 55.16059 1.452560 6 53.5 56.79136  
## WT/BR 54.72559 1.507614 6 52.6 56.27239  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.567159   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.60819 a  
## WT/BLK 55.16059 b  
## WT/BR 54.72559 b  
## BL/BR 53.08343 c  
## BLK 50.58348 d  
## WHT 49.41669 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7707045   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03155 2.196400 18 51.65147 58.68876  
## AftLow 51.82778 3.716071 18 45.90000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6039639   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03155 a  
## AftLow 51.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7707045 24 53.42966 1.643091 2.584517  
##   
## $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 54.76686 1.1132640 3 54.02105 56.04651 54.12704 54.23303  
## BL/BR:AftLow 51.40000 1.8193405 3 50.30000 53.50000 50.35000 50.40000  
## BLK:AftHigh 52.66697 0.1140594 3 52.54380 52.76894 52.61598 52.68816  
## BLK:AftLow 48.50000 0.3464102 3 48.10000 48.70000 48.40000 48.70000  
## BRN:AftHigh 58.04972 0.8983595 3 57.02255 58.68876 57.73020 58.43786  
## BRN:AftLow 57.16667 1.4468356 3 55.50000 58.10000 56.70000 57.90000  
## WHT:AftHigh 52.23338 0.5577337 3 51.65147 52.76330 51.96842 52.28537  
## WHT:AftLow 46.60000 0.6557439 3 45.90000 47.20000 46.30000 46.70000  
## WT/BLK:AftHigh 56.45450 0.2980273 3 56.22510 56.79136 56.28608 56.34706  
## WT/BLK:AftLow 53.86667 0.4041452 3 53.50000 54.30000 53.65000 53.80000  
## WT/BR:AftHigh 56.01784 0.3862005 3 55.57346 56.27239 55.89057 56.20767  
## WT/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 55.13977  
## BL/BR:AftLow 51.95000  
## BLK:AftHigh 52.72855  
## BLK:AftLow 48.70000  
## BRN:AftHigh 58.56331  
## BRN:AftLow 58.00000  
## WHT:AftHigh 52.52434  
## WHT:AftLow 46.95000  
## WT/BLK:AftHigh 56.56921  
## WT/BLK:AftLow 54.05000  
## WT/BR:AftHigh 56.24003  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 58.04972 a  
## BRN:AftLow 57.16667 ab  
## WT/BLK:AftHigh 56.45450 ab  
## WT/BR:AftHigh 56.01784 abc  
## BL/BR:AftHigh 54.76686 bcd  
## WT/BLK:AftLow 53.86667 cde  
## WT/BR:AftLow 53.43333 de  
## BLK:AftHigh 52.66697 de  
## WHT:AftHigh 52.23338 de  
## BL/BR:AftLow 51.40000 e  
## BLK:AftLow 48.50000 f  
## WHT:AftLow 46.60000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT5 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 131.338 26.268 55.4466 2.116e-12 \*\*\*  
## THIregime 1 81.281 81.281 171.5704 1.997e-12 \*\*\*  
## Colour:THIregime 5 8.706 1.741 3.6754 0.01305 \*   
## Residuals 24 11.370 0.474   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4737463   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.89133 1.926101 6 50.4 54.95319  
## BLK 54.29766 1.204428 6 52.6 55.52665  
## BRN 55.53882 1.079623 6 54.3 56.60037  
## WHT 50.28180 2.793679 6 47.1 53.46299  
## WT/BLK 56.12739 1.479221 6 54.4 57.87596  
## WT/BR 53.87859 1.988090 6 51.3 56.15291  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.228689   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.12739 a  
## BRN 55.53882 a  
## BLK 54.29766 b  
## WT/BR 53.87859 bc  
## BL/BR 52.89133 c  
## WHT 50.28180 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4737463   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.33853 1.569077 18 52.14223 57.87596  
## AftLow 52.33333 2.538643 18 47.10000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4735218   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.33853 a  
## AftLow 52.33333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4737463 24 53.83593 1.2785 2.026322  
##   
## $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 54.58266 0.3505570 3 54.25626 54.95319 54.39739 54.53852  
## BL/BR:AftLow 51.20000 0.7549834 3 50.40000 51.90000 50.85000 51.30000  
## BLK:AftHigh 55.32865 0.3232027 3 54.95568 55.52665 55.22965 55.50361  
## BLK:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## BRN:AftHigh 56.51098 0.1239663 3 56.36946 56.60037 56.46629 56.56311  
## BRN:AftLow 54.56667 0.2516611 3 54.30000 54.80000 54.45000 54.60000  
## WHT:AftHigh 52.69694 0.6852698 3 52.14223 53.46299 52.31392 52.48561  
## WHT:AftLow 47.86667 1.2423097 3 47.10000 49.30000 47.15000 47.20000  
## WT/BLK:AftHigh 57.38810 0.4226954 3 57.13111 57.87596 57.14418 57.15725  
## WT/BLK:AftLow 54.86667 0.7234178 3 54.40000 55.70000 54.45000 54.50000  
## WT/BR:AftHigh 55.52385 0.5452572 3 55.18667 56.15291 55.20932 55.23197  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 54.74586  
## BL/BR:AftLow 51.60000  
## BLK:AftHigh 55.51513  
## BLK:AftLow 53.60000  
## BRN:AftHigh 56.58174  
## BRN:AftLow 54.70000  
## WHT:AftHigh 52.97430  
## WHT:AftLow 48.25000  
## WT/BLK:AftHigh 57.51660  
## WT/BLK:AftLow 55.10000  
## WT/BR:AftHigh 55.69244  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.38810 a  
## BRN:AftHigh 56.51098 ab  
## WT/BR:AftHigh 55.52385 ab  
## BLK:AftHigh 55.32865 b  
## WT/BLK:AftLow 54.86667 bc  
## BL/BR:AftHigh 54.58266 bcd  
## BRN:AftLow 54.56667 bcd  
## BLK:AftLow 53.26667 cde  
## WHT:AftHigh 52.69694 def  
## WT/BR:AftLow 52.23333 ef  
## BL/BR:AftLow 51.20000 f  
## WHT:AftLow 47.86667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT6 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 107.188 21.438 9.2299 5.281e-05 \*\*\*  
## THIregime 1 78.053 78.053 33.6057 5.624e-06 \*\*\*  
## Colour:THIregime 5 7.970 1.594 0.6863 0.6385   
## Residuals 24 55.743 2.323   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.322629   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.05441 1.5911574 6 52.2 55.94197  
## BLK 50.98123 2.4534777 6 47.3 53.42707  
## BRN 56.43116 0.8894432 6 55.4 57.30400  
## WHT 53.06449 2.0970069 6 50.2 55.38007  
## WT/BLK 53.37470 3.6475584 6 49.2 58.54240  
## WT/BR 55.29548 1.1439729 6 53.6 56.43418  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.720565   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.43116 a  
## WT/BR 55.29548 ab  
## BL/BR 54.05441 ab  
## WT/BLK 53.37470 bc  
## WHT 53.06449 bc  
## BLK 50.98123 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.322629   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.33937 1.690651 18 52.24262 58.5424  
## AftLow 52.39444 2.682289 18 47.30000 55.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.048472   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.33937 a  
## AftLow 52.39444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.322629 24 53.86691 2.829227 4.486682  
##   
## $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 55.40881 0.46497536 3 55.08735 55.94197 55.14224 55.19712  
## BL/BR:AftLow 52.70000 0.78102497 3 52.20000 53.60000 52.25000 52.30000  
## BLK:AftHigh 53.02912 0.68114351 3 52.24262 53.42707 52.83014 53.41767  
## BLK:AftLow 48.93333 1.41539158 3 47.30000 49.80000 48.50000 49.70000  
## BRN:AftHigh 57.22898 0.06980097 3 57.16596 57.30400 57.19147 57.21698  
## BRN:AftLow 55.63333 0.25166115 3 55.40000 55.90000 55.50000 55.60000  
## WHT:AftHigh 54.86232 0.59474928 3 54.21270 55.38007 54.60345 54.99419  
## WHT:AftLow 51.26667 0.97125349 3 50.20000 52.10000 50.85000 51.50000  
## WT/BLK:AftHigh 55.24939 2.86151398 3 53.36767 58.54240 53.60289 53.83810  
## WT/BLK:AftLow 51.50000 3.81182371 3 49.20000 55.90000 49.30000 49.40000  
## WT/BR:AftHigh 56.25762 0.28494120 3 55.92890 56.43418 56.16934 56.40978  
## WT/BR:AftLow 54.33333 0.64291005 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 55.56954  
## BL/BR:AftLow 52.95000  
## BLK:AftHigh 53.42237  
## BLK:AftLow 49.75000  
## BRN:AftHigh 57.26049  
## BRN:AftLow 55.75000  
## WHT:AftHigh 55.18713  
## WHT:AftLow 51.80000  
## WT/BLK:AftHigh 56.19025  
## WT/BLK:AftLow 52.65000  
## WT/BR:AftHigh 56.42198  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 57.22898 a  
## WT/BR:AftHigh 56.25762 ab  
## BRN:AftLow 55.63333 abc  
## BL/BR:AftHigh 55.40881 abc  
## WT/BLK:AftHigh 55.24939 abc  
## WHT:AftHigh 54.86232 abc  
## WT/BR:AftLow 54.33333 abc  
## BLK:AftHigh 53.02912 abcd  
## BL/BR:AftLow 52.70000 bcd  
## WT/BLK:AftLow 51.50000 cd  
## WHT:AftLow 51.26667 cd  
## BLK:AftLow 48.93333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT7 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 287.152 57.430 16.5504 4.266e-07 \*\*\*  
## THIregime 1 119.508 119.508 34.4400 4.711e-06 \*\*\*  
## Colour:THIregime 5 8.204 1.641 0.4729 0.7927   
## Residuals 24 83.281 3.470   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.470026   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.12244 1.757420 6 53.7 58.18958  
## BLK 51.92472 2.943059 6 47.3 55.41756  
## BRN 54.30213 2.152062 6 51.4 56.88986  
## WHT 49.45541 4.083036 6 44.3 54.41597  
## WT/BLK 57.85382 2.426506 6 53.6 60.28473  
## WT/BR 55.97344 1.804979 6 53.7 57.80191  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.325336   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.85382 a  
## BL/BR 56.12244 ab  
## WT/BR 55.97344 ab  
## BRN 54.30213 bc  
## BLK 51.92472 cd  
## WHT 49.45541 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.470026   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.09398 2.698715 18 51.19385 60.28473  
## AftLow 52.45000 3.871654 18 44.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.281544   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.09398 a  
## AftLow 52.45000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.470026 24 54.27199 3.432342 5.484055  
##   
## $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 57.57821 0.6001328 3 56.98998 58.18958 57.27253 57.55508  
## BL/BR:AftLow 54.66667 1.0016653 3 53.70000 55.70000 54.15000 54.60000  
## BLK:AftHigh 53.68278 1.6150469 3 52.22271 55.41756 52.81538 53.40806  
## BLK:AftLow 50.16667 3.1262331 3 47.30000 53.50000 48.50000 49.70000  
## BRN:AftHigh 56.07092 0.7675870 3 55.36787 56.88986 55.66145 55.95504  
## BRN:AftLow 52.53333 1.2662280 3 51.40000 53.90000 51.85000 52.30000  
## WHT:AftHigh 52.31081 1.8242608 3 51.19385 54.41597 51.25823 51.32261  
## WHT:AftLow 46.60000 3.7269290 3 44.30000 50.90000 44.45000 44.60000  
## WT/BLK:AftHigh 59.34097 1.5302392 3 57.57541 60.28473 58.86909 60.16277  
## WT/BLK:AftLow 56.36667 2.3965253 3 53.60000 57.80000 55.65000 57.70000  
## WT/BR:AftHigh 57.58022 0.2373991 3 57.32974 57.80191 57.46937 57.60901  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 57.87233  
## BL/BR:AftLow 55.15000  
## BLK:AftHigh 54.41281  
## BLK:AftLow 51.60000  
## BRN:AftHigh 56.42245  
## BRN:AftLow 53.10000  
## WHT:AftHigh 52.86929  
## WHT:AftLow 47.75000  
## WT/BLK:AftHigh 60.22375  
## WT/BLK:AftLow 57.75000  
## WT/BR:AftHigh 57.70546  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.34097 a  
## WT/BR:AftHigh 57.58022 ab  
## BL/BR:AftHigh 57.57821 ab  
## WT/BLK:AftLow 56.36667 ab  
## BRN:AftHigh 56.07092 ab  
## BL/BR:AftLow 54.66667 abc  
## WT/BR:AftLow 54.36667 abc  
## BLK:AftHigh 53.68278 bc  
## BRN:AftLow 52.53333 bc  
## WHT:AftHigh 52.31081 bc  
## BLK:AftLow 50.16667 cd  
## WHT:AftLow 46.60000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT8 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 266.526 53.305 11.7503 8.051e-06 \*\*\*  
## THIregime 1 68.957 68.957 15.2005 0.0006802 \*\*\*  
## Colour:THIregime 5 24.979 4.996 1.1012 0.3856199   
## Residuals 24 108.876 4.536   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.536487   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.48498 1.417396 6 54.4 58.10000  
## BLK 51.09910 2.305151 6 47.3 53.73356  
## BRN 54.29690 3.593421 6 47.7 57.07482  
## WHT 47.68911 3.279193 6 44.6 50.91425  
## WT/BLK 52.95232 2.561516 6 50.2 56.16412  
## WT/BR 52.48163 1.735624 6 50.4 54.71624  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.802148   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.48498 a  
## BRN 54.29690 ab  
## WT/BLK 52.95232 ab  
## WT/BR 52.48163 b  
## BLK 51.09910 bc  
## WHT 47.68911 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.536487   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.88468 2.384947 18 50.39699 57.82224  
## AftLow 51.11667 4.226562 18 44.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.465301   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.88468 a  
## AftLow 51.11667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.536487 24 52.50067 4.056906 6.2704  
##   
## $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 56.76996 1.1614154 3 55.52381 57.82224 56.24383 56.96385  
## BL/BR:AftLow 56.20000 1.8520259 3 54.40000 58.10000 55.25000 56.10000  
## BLK:AftHigh 52.69819 1.0830397 3 51.57307 53.73356 52.18051 52.78795  
## BLK:AftLow 49.50000 2.1071308 3 47.30000 51.50000 48.50000 49.70000  
## BRN:AftHigh 55.62713 2.4818942 3 52.76134 57.07482 54.90329 57.04524  
## BRN:AftLow 52.96667 4.5621632 3 47.70000 55.70000 51.60000 55.50000  
## WHT:AftHigh 50.67822 0.2615735 3 50.39699 50.91425 50.56021 50.72342  
## WHT:AftLow 44.70000 0.1000000 3 44.60000 44.80000 44.65000 44.70000  
## WT/BLK:AftHigh 53.77131 2.0731265 3 52.51393 56.16412 52.57491 52.63589  
## WT/BLK:AftLow 52.13333 3.1770007 3 50.20000 55.80000 50.30000 50.40000  
## WT/BR:AftHigh 53.76326 0.8265827 3 53.24073 54.71624 53.28678 53.33282  
## WT/BR:AftLow 51.20000 1.3856406 3 50.40000 52.80000 50.40000 50.40000  
## Q75  
## BL/BR:AftHigh 57.39304  
## BL/BR:AftLow 57.10000  
## BLK:AftHigh 53.26075  
## BLK:AftLow 50.60000  
## BRN:AftHigh 57.06003  
## BRN:AftLow 55.60000  
## WHT:AftHigh 50.81883  
## WHT:AftLow 44.75000  
## WT/BLK:AftHigh 54.40000  
## WT/BLK:AftLow 53.10000  
## WT/BR:AftHigh 54.02453  
## WT/BR:AftLow 51.60000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.76996 a  
## BL/BR:AftLow 56.20000 a  
## BRN:AftHigh 55.62713 ab  
## WT/BLK:AftHigh 53.77131 ab  
## WT/BR:AftHigh 53.76326 ab  
## BRN:AftLow 52.96667 ab  
## BLK:AftHigh 52.69819 ab  
## WT/BLK:AftLow 52.13333 ab  
## WT/BR:AftLow 51.20000 ab  
## WHT:AftHigh 50.67822 abc  
## BLK:AftLow 49.50000 bc  
## WHT:AftLow 44.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT9 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 325.19 65.037 20.5939 5.660e-08 \*\*\*  
## THIregime 1 103.78 103.776 32.8604 6.602e-06 \*\*\*  
## Colour:THIregime 5 22.57 4.515 1.4296 0.2496   
## Residuals 24 75.79 3.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.158086   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.78896 2.6915100 6 49.5 56.11185  
## BLK 49.93056 2.5011348 6 46.7 52.92338  
## BRN 56.87486 0.7097803 6 56.1 57.63987  
## WHT 47.72350 3.5005111 6 44.2 50.99592  
## WT/BLK 53.76611 2.7430430 6 49.2 56.63455  
## WT/BR 54.50306 2.5782298 6 50.1 57.26179  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.17235   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.87486 a  
## WT/BR 54.50306 ab  
## WT/BLK 53.76611 ab  
## BL/BR 52.78896 bc  
## BLK 49.93056 cd  
## WHT 47.72350 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.158086   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.29568 2.536024 18 50.75417 57.63987  
## AftLow 50.90000 4.299248 18 44.20000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.222585   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.29568 a  
## AftLow 50.90000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.158086 24 52.59784 3.378657 5.231755  
##   
## $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 54.34459 1.5320932 3 53.39090 56.11185 53.46096 53.53101  
## BL/BR:AftLow 51.23333 2.9160476 3 49.50000 54.60000 49.55000 49.60000  
## BLK:AftHigh 51.96112 0.8658202 3 51.24505 52.92338 51.48000 51.71494  
## BLK:AftLow 47.90000 1.5874508 3 46.70000 49.70000 47.00000 47.30000  
## BRN:AftHigh 57.51638 0.1071224 3 57.44846 57.63987 57.45464 57.46081  
## BRN:AftLow 56.23333 0.1154701 3 56.10000 56.30000 56.20000 56.30000  
## WHT:AftHigh 50.91367 0.1381540 3 50.75417 50.99592 50.87255 50.99092  
## WHT:AftLow 44.53333 0.2886751 3 44.20000 44.70000 44.45000 44.70000  
## WT/BLK:AftHigh 55.36555 1.7241692 3 53.40252 56.63455 54.73105 56.05958  
## WT/BLK:AftLow 52.16667 2.8571548 3 49.20000 54.90000 50.80000 52.40000  
## WT/BR:AftHigh 55.67278 1.7635452 3 53.77538 57.26179 54.87827 55.98117  
## WT/BR:AftLow 53.33333 3.0664855 3 50.10000 56.20000 51.90000 53.70000  
## Q75  
## BL/BR:AftHigh 54.82143  
## BL/BR:AftLow 52.10000  
## BLK:AftHigh 52.31916  
## BLK:AftLow 48.50000  
## BRN:AftHigh 57.55034  
## BRN:AftLow 56.30000  
## WHT:AftHigh 50.99342  
## WHT:AftLow 44.70000  
## WT/BLK:AftHigh 56.34706  
## WT/BLK:AftLow 53.65000  
## WT/BR:AftHigh 56.62148  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 57.51638 a  
## BRN:AftLow 56.23333 ab  
## WT/BR:AftHigh 55.67278 abc  
## WT/BLK:AftHigh 55.36555 abc  
## BL/BR:AftHigh 54.34459 abc  
## WT/BR:AftLow 53.33333 abc  
## WT/BLK:AftLow 52.16667 bcd  
## BLK:AftHigh 51.96112 bcd  
## BL/BR:AftLow 51.23333 bcd  
## WHT:AftHigh 50.91367 cd  
## BLK:AftLow 47.90000 de  
## WHT:AftLow 44.53333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT10 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 322.50 64.500 77.7438 4.992e-14 \*\*\*  
## THIregime 1 80.50 80.499 97.0277 6.594e-10 \*\*\*  
## Colour:THIregime 5 24.54 4.909 5.9165 0.001063 \*\*   
## Residuals 24 19.91 0.830   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8296543   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.66334 2.1695180 6 49.3 54.14519  
## BLK 50.49763 2.2483886 6 47.3 52.97565  
## BRN 57.58964 0.4185268 6 57.1 58.06152  
## WHT 48.89728 3.1749713 6 45.7 52.33860  
## WT/BLK 54.47775 1.9435931 6 51.3 56.80442  
## WT/BR 55.37984 1.0934515 6 54.2 56.53872  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.62599   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.58964 a  
## WT/BR 55.37984 b  
## WT/BLK 54.47775 b  
## BL/BR 51.66334 c  
## BLK 50.49763 cd  
## WHT 48.89728 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8296543   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.57961 2.331868 18 51.36689 58.06152  
## AftLow 51.58889 4.018470 18 45.70000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6266364   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.57961 a  
## AftLow 51.58889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8296543 24 53.08425 1.715864 2.681538  
##   
## $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 53.59335 0.4988860 3 53.17427 54.14519 53.31743 53.46059  
## BL/BR:AftLow 49.73333 0.5859465 3 49.30000 50.40000 49.40000 49.50000  
## BLK:AftHigh 52.39526 0.6042400 3 51.76970 52.97565 52.10507 52.44045  
## BLK:AftLow 48.60000 1.2124356 3 47.30000 49.70000 48.05000 48.80000  
## BRN:AftHigh 57.94595 0.1836136 3 57.73423 58.06152 57.88816 58.04210  
## BRN:AftLow 57.23333 0.1527525 3 57.10000 57.40000 57.15000 57.20000  
## WHT:AftHigh 51.76123 0.5110616 3 51.36689 52.33860 51.47254 51.57819  
## WHT:AftLow 46.03333 0.5773503 3 45.70000 46.70000 45.70000 45.70000  
## WT/BLK:AftHigh 55.42217 1.3873608 3 54.02976 56.80442 54.73105 55.43234  
## WT/BLK:AftLow 53.53333 2.2007574 3 51.30000 55.70000 52.45000 53.60000  
## WT/BR:AftHigh 56.35967 0.1971227 3 56.14843 56.53872 56.27015 56.39186  
## WT/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## Q75  
## BL/BR:AftHigh 53.80289  
## BL/BR:AftLow 49.95000  
## BLK:AftHigh 52.70805  
## BLK:AftLow 49.25000  
## BRN:AftHigh 58.05181  
## BRN:AftLow 57.30000  
## WHT:AftHigh 51.95840  
## WHT:AftLow 46.20000  
## WT/BLK:AftHigh 56.11838  
## WT/BLK:AftLow 54.65000  
## WT/BR:AftHigh 56.46529  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 57.94595 a  
## BRN:AftLow 57.23333 a  
## WT/BR:AftHigh 56.35967 ab  
## WT/BLK:AftHigh 55.42217 abc  
## WT/BR:AftLow 54.40000 bcd  
## BL/BR:AftHigh 53.59335 cd  
## WT/BLK:AftLow 53.53333 cd  
## BLK:AftHigh 52.39526 de  
## WHT:AftHigh 51.76123 de  
## BL/BR:AftLow 49.73333 ef  
## BLK:AftLow 48.60000 fg  
## WHT:AftLow 46.03333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT11 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 209.759 41.952 9.9526 2.989e-05 \*\*\*  
## THIregime 1 94.821 94.821 22.4954 7.984e-05 \*\*\*  
## Colour:THIregime 5 7.392 1.478 0.3508 0.8767   
## Residuals 24 101.163 4.215   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.215146   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.55881 1.676653 6 53.5 57.28792  
## BLK 51.06558 2.406709 6 47.3 53.61084  
## BRN 51.76303 4.615206 6 46.2 57.55731  
## WHT 52.16601 2.048522 6 50.2 54.13635  
## WT/BLK 56.23534 2.234791 6 52.3 58.67308  
## WT/BR 57.24885 1.257464 6 55.7 58.72012  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.665013   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.24885 a  
## WT/BLK 56.23534 a  
## BL/BR 55.55881 ab  
## WHT 52.16601 bc  
## BRN 51.76303 c  
## BLK 51.06558 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.215146   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.62921 2.385617 18 52.09577 58.72012  
## AftLow 52.38333 3.610157 18 46.20000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.412451   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.62921 a  
## AftLow 52.38333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.215146 24 54.00627 3.801562 6.04424  
##   
## $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 57.05096 0.3241302 3 56.68159 57.28792 56.93248 57.18338  
## BL/BR:AftLow 54.06667 0.4932883 3 53.50000 54.40000 53.90000 54.30000  
## BLK:AftHigh 52.99783 0.7978263 3 52.09577 53.61084 52.69133 53.28689  
## BLK:AftLow 49.13333 1.6258331 3 47.30000 50.40000 48.50000 49.70000  
## BRN:AftHigh 54.05940 3.0293661 3 52.28742 57.55731 52.31045 52.33347  
## BRN:AftLow 49.46667 5.3153865 3 46.20000 55.60000 46.40000 46.60000  
## WHT:AftHigh 54.03201 0.1231443 3 53.89618 54.13635 53.97985 54.06351  
## WHT:AftLow 50.30000 0.1732051 3 50.20000 50.50000 50.20000 50.20000  
## WT/BLK:AftHigh 57.37068 1.5423156 3 55.66755 58.67308 56.71948 57.77142  
## WT/BLK:AftLow 55.10000 2.4979992 3 52.30000 57.10000 54.10000 55.90000  
## WT/BR:AftHigh 58.26437 0.3947968 3 58.02717 58.72012 58.03650 58.04584  
## WT/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## Q75  
## BL/BR:AftHigh 57.23565  
## BL/BR:AftLow 54.35000  
## BLK:AftHigh 53.44886  
## BLK:AftLow 50.05000  
## BRN:AftHigh 54.94539  
## BRN:AftLow 51.10000  
## WHT:AftHigh 54.09993  
## WHT:AftLow 50.35000  
## WT/BLK:AftHigh 58.22225  
## WT/BLK:AftLow 56.50000  
## WT/BR:AftHigh 58.38298  
## WT/BR:AftLow 56.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.26437 a  
## WT/BLK:AftHigh 57.37068 a  
## BL/BR:AftHigh 57.05096 a  
## WT/BR:AftLow 56.23333 ab  
## WT/BLK:AftLow 55.10000 abc  
## BL/BR:AftLow 54.06667 abc  
## BRN:AftHigh 54.05940 abc  
## WHT:AftHigh 54.03201 abc  
## BLK:AftHigh 52.99783 abc  
## WHT:AftLow 50.30000 bc  
## BRN:AftLow 49.46667 c  
## BLK:AftLow 49.13333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT12 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 295.685 59.137 23.0478 1.923e-08 \*\*\*  
## THIregime 1 67.073 67.073 26.1407 3.124e-05 \*\*\*  
## Colour:THIregime 5 24.181 4.836 1.8849 0.1345   
## Residuals 24 61.580 2.566   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.565837   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.97250 1.3562431 6 54.4 57.51660  
## BLK 50.22843 2.9786282 6 46.3 53.72406  
## BRN 57.55058 1.3052939 6 55.4 58.98468  
## WHT 51.83261 3.9875516 6 44.6 55.64722  
## WT/BLK 53.70158 1.4339663 6 51.3 55.49767  
## WT/BR 57.93745 0.4411757 6 57.3 58.64694  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.859458   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.93745 a  
## BRN 57.55058 a  
## BL/BR 55.97250 ab  
## WT/BLK 53.70158 bc  
## WHT 51.83261 cd  
## BLK 50.22843 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.565837   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.90216 2.413812 18 51.79275 58.98468  
## AftLow 53.17222 4.075725 18 44.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.102   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.90216 a  
## AftLow 53.17222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.565837 24 54.53719 2.937121 4.715741  
##   
## $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 57.14500 0.3228289 3 56.93365 57.51660 56.95920 56.98475  
## BL/BR:AftLow 54.80000 0.6082763 3 54.40000 55.50000 54.45000 54.50000  
## BLK:AftHigh 52.69019 0.9728540 3 51.79275 53.72406 52.17325 52.55375  
## BLK:AftLow 47.76667 1.7473790 3 46.30000 49.70000 46.80000 47.30000  
## BRN:AftHigh 58.50116 0.5555878 3 57.89425 58.98468 58.25940 58.62454  
## BRN:AftLow 56.60000 1.1135529 3 55.40000 57.60000 56.10000 56.80000  
## WHT:AftHigh 54.29855 2.0845791 3 51.89758 55.64722 53.62422 55.35086  
## WHT:AftLow 49.36667 4.1428654 3 44.60000 52.10000 48.00000 51.40000  
## WT/BLK:AftHigh 54.53649 0.9518899 3 53.59417 55.49767 54.05589 54.51761  
## WT/BLK:AftLow 52.86667 1.4640128 3 51.30000 54.20000 52.20000 53.10000  
## WT/BR:AftHigh 58.24156 0.3546893 3 57.98834 58.64694 58.03887 58.08939  
## WT/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## Q75  
## BL/BR:AftHigh 57.25068  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 53.13890  
## BLK:AftLow 48.50000  
## BRN:AftHigh 58.80461  
## BRN:AftLow 57.20000  
## WHT:AftHigh 55.49904  
## WHT:AftLow 51.75000  
## WT/BLK:AftHigh 55.00764  
## WT/BLK:AftLow 53.65000  
## WT/BR:AftHigh 58.36817  
## WT/BR:AftLow 57.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 58.50116 a  
## WT/BR:AftHigh 58.24156 a  
## WT/BR:AftLow 57.63333 a  
## BL/BR:AftHigh 57.14500 ab  
## BRN:AftLow 56.60000 ab  
## BL/BR:AftLow 54.80000 ab  
## WT/BLK:AftHigh 54.53649 ab  
## WHT:AftHigh 54.29855 ab  
## WT/BLK:AftLow 52.86667 bc  
## BLK:AftHigh 52.69019 bc  
## WHT:AftLow 49.36667 cd  
## BLK:AftLow 47.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT13 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 202.355 40.471 16.1219 5.398e-07 \*\*\*  
## THIregime 1 58.811 58.811 23.4278 6.235e-05 \*\*\*  
## Colour:THIregime 5 18.165 3.633 1.4472 0.2438   
## Residuals 24 60.248 2.510   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.510318   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.45120 0.7530507 6 55.3 57.17031  
## BLK 51.84062 2.9014334 6 47.3 55.26757  
## BRN 54.53899 2.2912136 6 50.4 56.68480  
## WHT 49.61098 2.8926202 6 46.4 52.56402  
## WT/BLK 52.01753 2.0881217 6 49.2 54.68749  
## WT/BR 55.50954 0.6944126 6 54.6 56.39062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.828353   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.45120 a  
## WT/BR 55.50954 a  
## BRN 54.53899 ab  
## WT/BLK 52.01753 bc  
## BLK 51.84062 bc  
## WHT 49.61098 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.510318   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.60628 2.071696 18 51.72116 57.17031  
## AftLow 52.05000 3.496259 18 46.40000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.090012   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.60628 a  
## AftLow 52.05000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.510318 24 53.32814 2.971036 4.664443  
##   
## $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 57.06906 0.1382325 3 56.91158 57.17031 57.01844 57.12530  
## BL/BR:AftLow 55.83333 0.5033223 3 55.30000 56.30000 55.60000 55.90000  
## BLK:AftHigh 53.44791 1.6859185 3 51.93896 55.26757 52.53808 53.13721  
## BLK:AftLow 50.23333 3.2331615 3 47.30000 53.70000 48.50000 49.70000  
## BRN:AftHigh 55.91130 1.3156896 3 54.39216 56.68480 55.52455 56.65695  
## BRN:AftLow 53.16667 2.3965253 3 50.40000 54.60000 52.45000 54.50000  
## WHT:AftHigh 52.22196 0.4432803 3 51.72116 52.56402 52.05093 52.38069  
## WHT:AftLow 47.00000 0.5196152 3 46.40000 47.30000 46.85000 47.30000  
## WT/BLK:AftHigh 52.96839 1.5280368 3 51.76472 54.68749 52.10883 52.45295  
## WT/BLK:AftLow 51.06667 2.4193663 3 49.20000 53.80000 49.70000 50.20000  
## WT/BR:AftHigh 56.01909 0.3829088 3 55.62573 56.39062 55.83332 56.04091  
## WT/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## Q75  
## BL/BR:AftHigh 57.14781  
## BL/BR:AftLow 56.10000  
## BLK:AftHigh 54.20239  
## BLK:AftLow 51.70000  
## BRN:AftHigh 56.67088  
## BRN:AftLow 54.55000  
## WHT:AftHigh 52.47235  
## WHT:AftLow 47.30000  
## WT/BLK:AftHigh 53.57022  
## WT/BLK:AftLow 52.00000  
## WT/BR:AftHigh 56.21576  
## WT/BR:AftLow 55.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.06906 a  
## WT/BR:AftHigh 56.01909 ab  
## BRN:AftHigh 55.91130 ab  
## BL/BR:AftLow 55.83333 ab  
## WT/BR:AftLow 55.00000 abc  
## BLK:AftHigh 53.44791 abcd  
## BRN:AftLow 53.16667 abcd  
## WT/BLK:AftHigh 52.96839 abcd  
## WHT:AftHigh 52.22196 bcd  
## WT/BLK:AftLow 51.06667 cde  
## BLK:AftLow 50.23333 de  
## WHT:AftLow 47.00000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT14 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 389.38 77.876 25.4908 7.172e-09 \*\*\*  
## THIregime 1 66.89 66.888 21.8944 9.390e-05 \*\*\*  
## Colour:THIregime 5 23.99 4.798 1.5705 0.2063   
## Residuals 24 73.32 3.055   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.055046   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.14004 0.7425125 6 57.1 59.04942  
## BLK 50.29282 2.4359829 6 47.3 53.13246  
## BRN 53.98340 3.3883594 6 47.9 57.32526  
## WHT 49.43346 3.0492123 6 45.3 52.53135  
## WT/BLK 53.01197 2.1825238 6 49.9 55.74596  
## WT/BR 57.55019 0.9013007 6 56.1 58.46773  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.120168   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.14004 a  
## WT/BR 57.55019 a  
## BRN 53.98340 b  
## WT/BLK 53.01197 bc  
## BLK 50.29282 cd  
## WHT 49.43346 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.055046   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.09840 2.811033 18 51.50228 59.04942  
## AftLow 52.37222 4.552673 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.202475   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.09840 a  
## AftLow 52.37222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.055046 24 53.73531 3.252738 5.145698  
##   
## $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 58.74674 0.3615488 3 58.34639 59.04942 58.59540 58.84440  
## BL/BR:AftLow 57.53333 0.3785939 3 57.10000 57.80000 57.40000 57.70000  
## BLK:AftHigh 52.35230 0.6762234 3 51.93398 53.13246 51.96222 51.99047  
## BLK:AftLow 48.23333 1.2858201 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 55.50013 2.1994720 3 53.05807 57.32526 54.58757 56.11707  
## BRN:AftLow 52.46667 4.1186567 3 47.90000 55.90000 50.75000 53.60000  
## WHT:AftHigh 52.10024 0.5344379 3 51.50228 52.53135 51.88469 52.26710  
## WHT:AftLow 46.76667 1.2741010 3 45.30000 47.60000 46.35000 47.40000  
## WT/BLK:AftHigh 54.02395 1.5704294 3 52.67074 55.74596 53.16295 53.65516  
## WT/BLK:AftLow 52.00000 2.5238859 3 49.90000 54.80000 50.60000 51.30000  
## WT/BR:AftHigh 57.86704 0.8696767 3 56.86976 58.46773 57.56669 58.26363  
## WT/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## Q75  
## BL/BR:AftHigh 58.94691  
## BL/BR:AftLow 57.75000  
## BLK:AftHigh 52.56146  
## BLK:AftLow 48.70000  
## BRN:AftHigh 56.72116  
## BRN:AftLow 54.75000  
## WHT:AftHigh 52.39922  
## WHT:AftLow 47.50000  
## WT/BLK:AftHigh 54.70056  
## WT/BLK:AftLow 53.05000  
## WT/BR:AftHigh 58.36568  
## WT/BR:AftLow 57.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.74674 a  
## WT/BR:AftHigh 57.86704 a  
## BL/BR:AftLow 57.53333 ab  
## WT/BR:AftLow 57.23333 abc  
## BRN:AftHigh 55.50013 abcd  
## WT/BLK:AftHigh 54.02395 abcd  
## BRN:AftLow 52.46667 bcde  
## BLK:AftHigh 52.35230 cde  
## WHT:AftHigh 52.10024 cde  
## WT/BLK:AftLow 52.00000 de  
## BLK:AftLow 48.23333 ef  
## WHT:AftLow 46.76667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT15 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 157.442 31.488 18.6078 1.464e-07 \*\*\*  
## THIregime 1 91.227 91.227 53.9098 1.392e-07 \*\*\*  
## Colour:THIregime 5 8.042 1.608 0.9505 0.467   
## Residuals 24 40.613 1.692   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.692215   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.21091 2.134262 6 50.2 54.30200  
## BLK 51.74468 2.830761 6 47.3 55.07894  
## BRN 55.42129 1.120360 6 54.1 56.62449  
## WHT 50.16220 2.689730 6 47.2 52.94624  
## WT/BLK 55.33327 2.198552 6 51.5 57.78449  
## WT/BR 55.34559 1.443839 6 53.7 56.94294  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.322186   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 55.42129 a  
## WT/BR 55.34559 a  
## WT/BLK 55.33327 a  
## BL/BR 52.21091 b  
## BLK 51.74468 b  
## WHT 50.16220 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.692215   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.96154 1.891560 18 51.7921 57.78449  
## AftLow 51.77778 2.923245 18 47.2000 55.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8949418   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.96154 a  
## AftLow 51.77778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.692215 24 53.36966 2.437437 3.829686  
##   
## $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 54.15516 0.1846415 3 53.94787 54.30200 54.08174 54.21561  
## BL/BR:AftLow 50.26667 0.1154701 3 50.20000 50.40000 50.20000 50.20000  
## BLK:AftHigh 53.28936 1.6628062 3 51.79210 55.07894 52.39457 52.99703  
## BLK:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 56.40925 0.1910078 3 56.25994 56.62449 56.30163 56.34333  
## BRN:AftLow 54.43333 0.4163332 3 54.10000 54.90000 54.20000 54.30000  
## WHT:AftHigh 52.59107 0.4062923 3 52.14804 52.94624 52.41349 52.67894  
## WHT:AftLow 47.73333 0.4725816 3 47.20000 48.10000 47.55000 47.90000  
## WT/BLK:AftHigh 56.69988 1.3812663 3 55.14485 57.78449 56.15758 57.17031  
## WT/BLK:AftLow 53.96667 2.1385353 3 51.50000 55.30000 53.30000 55.10000  
## WT/BR:AftHigh 56.62451 0.2853783 3 56.39186 56.94294 56.46529 56.53872  
## WT/BR:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 54.25880  
## BL/BR:AftLow 50.30000  
## BLK:AftHigh 54.03799  
## BLK:AftLow 51.65000  
## BRN:AftHigh 56.48391  
## BRN:AftLow 54.60000  
## WHT:AftHigh 52.81259  
## WHT:AftLow 48.00000  
## WT/BLK:AftHigh 57.47740  
## WT/BLK:AftLow 55.20000  
## WT/BR:AftHigh 56.74083  
## WT/BR:AftLow 54.25000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 56.69988 a  
## WT/BR:AftHigh 56.62451 a  
## BRN:AftHigh 56.40925 ab  
## BRN:AftLow 54.43333 ab  
## BL/BR:AftHigh 54.15516 ab  
## WT/BR:AftLow 54.06667 abc  
## WT/BLK:AftLow 53.96667 abcd  
## BLK:AftHigh 53.28936 abcd  
## WHT:AftHigh 52.59107 bcd  
## BL/BR:AftLow 50.26667 cde  
## BLK:AftLow 50.20000 de  
## WHT:AftLow 47.73333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT16 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.95 82.191 47.3232 1.181e-11 \*\*\*  
## THIregime 1 116.62 116.625 67.1495 2.058e-08 \*\*\*  
## Colour:THIregime 5 22.29 4.458 2.5666 0.05371 .   
## Residuals 24 41.68 1.737   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.73679   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.54485 2.770361 6 52.1 59.10430  
## BLK 50.50338 2.650924 6 47.3 53.55299  
## BRN 57.47455 1.147033 6 56.3 58.63997  
## WHT 48.92617 3.895866 6 44.3 53.22248  
## WT/BLK 56.90931 1.732214 6 54.3 59.01283  
## WT/BR 56.90769 1.386640 6 55.4 58.38559  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.352572   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.47455 a  
## WT/BLK 56.90931 a  
## WT/BR 56.90769 a  
## BL/BR 55.54485 a  
## BLK 50.50338 b  
## WHT 48.92617 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.73679   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.17754 2.808104 18 51.52592 59.1043  
## AftLow 52.57778 4.477861 18 44.30000 57.3000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9066523   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.17754 a  
## AftLow 52.57778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.73679 24 54.37766 2.423557 3.879798  
##   
## $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 57.15637 1.6949718 3 56.01776 59.10430 56.18241 56.34706  
## BL/BR:AftLow 53.93333 2.9194748 3 52.10000 57.30000 52.25000 52.40000  
## BLK:AftHigh 52.77342 0.6751918 3 52.37454 53.55299 52.38363 52.39272  
## BLK:AftLow 48.23333 1.2858201 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 58.51576 0.1161977 3 58.40971 58.63997 58.45366 58.49760  
## BRN:AftLow 56.43333 0.1527525 3 56.30000 56.60000 56.35000 56.40000  
## WHT:AftHigh 52.25235 0.8741373 3 51.52592 53.22248 51.76729 52.00865  
## WHT:AftLow 45.60000 1.9974984 3 44.30000 47.90000 44.45000 44.60000  
## WT/BLK:AftHigh 58.21862 0.8176484 3 57.37939 59.01283 57.82151 58.26363  
## WT/BLK:AftLow 55.60000 1.3000000 3 54.30000 56.90000 54.95000 55.60000  
## WT/BR:AftHigh 58.14872 0.2077734 3 57.99730 58.38559 58.03028 58.06326  
## WT/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## Q75  
## BL/BR:AftHigh 57.72568  
## BL/BR:AftLow 54.85000  
## BLK:AftHigh 52.97286  
## BLK:AftLow 48.70000  
## BRN:AftHigh 58.56878  
## BRN:AftLow 56.50000  
## WHT:AftHigh 52.61556  
## WHT:AftLow 46.25000  
## WT/BLK:AftHigh 58.63823  
## WT/BLK:AftLow 56.25000  
## WT/BR:AftHigh 58.22442  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 58.51576 a  
## WT/BLK:AftHigh 58.21862 a  
## WT/BR:AftHigh 58.14872 a  
## BL/BR:AftHigh 57.15637 ab  
## BRN:AftLow 56.43333 abc  
## WT/BR:AftLow 55.66667 abcd  
## WT/BLK:AftLow 55.60000 abcd  
## BL/BR:AftLow 53.93333 bcd  
## BLK:AftHigh 52.77342 cd  
## WHT:AftHigh 52.25235 d  
## BLK:AftLow 48.23333 e  
## WHT:AftLow 45.60000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT17 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 325.26 65.052 13.7401 2.184e-06 \*\*\*  
## THIregime 1 105.71 105.715 22.3288 8.349e-05 \*\*\*  
## Colour:THIregime 5 19.93 3.987 0.8421 0.5333   
## Residuals 24 113.63 4.734   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.734461   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.77568 2.103546 6 51.3 56.32383  
## BLK 50.51113 2.294124 6 47.3 53.05405  
## BRN 54.67763 4.182018 6 47.4 58.53543  
## WHT 47.88124 3.477779 6 43.6 51.26457  
## WT/BLK 54.08662 2.403601 6 50.1 57.18338  
## WT/BR 57.14946 1.675022 6 54.2 58.66934  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.884226   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.14946 a  
## BRN 54.67763 a  
## WT/BLK 54.08662 ab  
## BL/BR 53.77568 ab  
## BLK 50.51113 bc  
## WHT 47.88124 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.734461   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.72725 2.683728 18 50.62023 58.66934  
## AftLow 51.30000 4.448265 18 43.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.496933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.72725 a  
## AftLow 51.30000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.734461 24 53.01363 4.104382 6.405761  
##   
## $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 55.48470 0.7326041 3 54.97236 56.32383 55.06514 55.15792  
## BL/BR:AftLow 52.06667 1.3279056 3 51.30000 53.60000 51.30000 51.30000  
## BLK:AftHigh 52.45560 0.6011225 3 51.85184 53.05405 52.15637 52.46090  
## BLK:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## BRN:AftHigh 56.02193 2.9425238 3 52.78523 58.53543 54.76517 56.74512  
## BRN:AftLow 53.33333 5.4445692 3 47.40000 58.10000 50.95000 54.50000  
## WHT:AftHigh 50.99581 0.3351912 3 50.62023 51.26457 50.86143 51.10264  
## WHT:AftLow 44.76667 1.0115994 3 43.60000 45.40000 44.45000 45.30000  
## WT/BLK:AftHigh 55.60657 1.5681726 3 54.04718 57.18338 54.81816 55.58915  
## WT/BLK:AftLow 52.56667 2.2479620 3 50.10000 54.50000 51.60000 53.10000  
## WT/BR:AftHigh 57.79892 1.3337342 3 56.26343 58.66934 57.36371 58.46400  
## WT/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## Q75  
## BL/BR:AftHigh 55.74087  
## BL/BR:AftLow 52.45000  
## BLK:AftHigh 52.75747  
## BLK:AftLow 49.20000  
## BRN:AftHigh 57.64027  
## BRN:AftLow 56.30000  
## WHT:AftHigh 51.18360  
## WHT:AftLow 45.35000  
## WT/BLK:AftHigh 56.38626  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 58.56667  
## WT/BR:AftLow 57.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.79892 a  
## WT/BR:AftLow 56.50000 ab  
## BRN:AftHigh 56.02193 ab  
## WT/BLK:AftHigh 55.60657 ab  
## BL/BR:AftHigh 55.48470 ab  
## BRN:AftLow 53.33333 abc  
## WT/BLK:AftLow 52.56667 abc  
## BLK:AftHigh 52.45560 abc  
## BL/BR:AftLow 52.06667 abc  
## WHT:AftHigh 50.99581 bcd  
## BLK:AftLow 48.56667 cd  
## WHT:AftLow 44.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT18 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 259.774 51.955 15.7664 6.584e-07 \*\*\*  
## THIregime 1 93.198 93.198 28.2824 1.861e-05 \*\*\*  
## Colour:THIregime 5 13.084 2.617 0.7941 0.5645   
## Residuals 24 79.087 3.295   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.29528   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.46419 2.305980 6 52.3 58.33913  
## BLK 50.92950 2.220173 6 47.3 53.37222  
## BRN 49.99349 2.949529 6 46.1 53.35963  
## WHT 50.24062 3.893580 6 43.2 54.03411  
## WT/BLK 55.22562 1.313833 6 53.5 56.79136  
## WT/BR 56.36718 1.114087 6 54.7 57.47958  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.240525   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36718 a  
## BL/BR 55.46419 a  
## WT/BLK 55.22562 a  
## BLK 50.92950 b  
## WHT 50.24062 b  
## BRN 49.99349 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.29528   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.64576 2.435862 18 49.71748 58.33913  
## AftLow 51.42778 3.843069 18 43.20000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.248858   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.64576 a  
## AftLow 51.42778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.29528 24 53.03677 3.422702 5.344186  
##   
## $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 56.72839 1.4104259 3 55.71459 58.33913 55.92302 56.13145  
## BL/BR:AftLow 54.20000 2.5514702 3 52.30000 57.10000 52.75000 53.20000  
## BLK:AftHigh 52.59234 0.9080320 3 51.59547 53.37222 52.20240 52.80933  
## BLK:AftLow 49.26667 1.7897858 3 47.30000 50.80000 48.50000 49.70000  
## BRN:AftHigh 52.55364 0.7699343 3 51.82570 53.35963 52.15065 52.47560  
## BRN:AftLow 47.43333 1.2220202 3 46.10000 48.50000 46.90000 47.70000  
## WHT:AftHigh 52.44791 2.3749212 3 49.71748 54.03411 51.65480 53.59212  
## WHT:AftLow 48.03333 4.2003968 3 43.20000 50.80000 46.65000 50.10000  
## WT/BLK:AftHigh 56.25123 0.4793000 3 55.87663 56.79136 55.98117 56.08571  
## WT/BLK:AftLow 54.20000 0.9643651 3 53.50000 55.30000 53.65000 53.80000  
## WT/BR:AftHigh 57.30103 0.2709705 3 56.98923 57.47958 57.21176 57.43428  
## WT/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## Q75  
## BL/BR:AftHigh 57.23529  
## BL/BR:AftLow 55.15000  
## BLK:AftHigh 53.09077  
## BLK:AftLow 50.25000  
## BRN:AftHigh 52.91761  
## BRN:AftLow 48.10000  
## WHT:AftHigh 53.81312  
## WHT:AftLow 50.45000  
## WT/BLK:AftHigh 56.43853  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 57.45693  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.30103 a  
## BL/BR:AftHigh 56.72839 a  
## WT/BLK:AftHigh 56.25123 a  
## WT/BR:AftLow 55.43333 a  
## BL/BR:AftLow 54.20000 ab  
## WT/BLK:AftLow 54.20000 ab  
## BLK:AftHigh 52.59234 abc  
## BRN:AftHigh 52.55364 abc  
## WHT:AftHigh 52.44791 abc  
## BLK:AftLow 49.26667 bc  
## WHT:AftLow 48.03333 c  
## BRN:AftLow 47.43333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT19 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 91.972 18.394 4.7296 0.0037916 \*\*   
## THIregime 1 62.647 62.647 16.1076 0.0005093 \*\*\*  
## Colour:THIregime 5 6.029 1.206 0.3100 0.9020368   
## Residuals 24 93.342 3.889   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.889255   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.79823 2.1875859 6 49.3 55.37135  
## BLK 51.33406 2.4797040 6 47.3 54.23581  
## BRN 53.07664 2.9671929 6 47.6 55.61528  
## WHT 50.63359 2.8064218 6 45.7 53.34922  
## WT/BLK 53.62323 2.0095057 6 50.2 55.49332  
## WT/BR 55.58253 0.8664795 6 54.6 56.44289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.520484   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.58253 a  
## WT/BLK 53.62323 ab  
## BRN 53.07664 ab  
## BL/BR 52.79823 ab  
## BLK 51.33406 b  
## WHT 50.63359 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.889255   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.16054 1.721366 18 51.05146 56.44289  
## AftLow 51.52222 2.879656 18 45.70000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.356751   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.16054 a  
## AftLow 51.52222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.889255 24 52.84138 3.732149 5.805888  
##   
## $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 54.36312 1.00190277 3 53.36767 55.37135 53.85901 54.35035  
## BL/BR:AftLow 51.23333 1.90087699 3 49.30000 53.10000 50.30000 51.30000  
## BLK:AftHigh 52.83480 1.35735575 3 51.52577 54.23581 52.13429 52.74281  
## BLK:AftLow 49.83333 2.60256284 3 47.30000 52.50000 48.50000 49.70000  
## BRN:AftHigh 54.38662 1.94399709 3 52.14536 55.61528 53.77229 55.39923  
## BRN:AftLow 51.76667 3.61708907 3 47.60000 54.10000 50.60000 53.60000  
## WHT:AftHigh 52.56719 1.31288351 3 51.05146 53.34922 52.17617 53.30088  
## WHT:AftLow 48.70000 2.59807621 3 45.70000 50.20000 47.95000 50.20000  
## WT/BLK:AftHigh 54.44646 1.68289882 3 52.50522 55.49332 53.92304 55.34086  
## WT/BLK:AftLow 52.80000 2.28691933 3 50.20000 54.50000 51.95000 53.70000  
## WT/BR:AftHigh 56.36506 0.09948606 3 56.25297 56.44289 56.32615 56.39933  
## WT/BR:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## Q75  
## BL/BR:AftHigh 54.86085  
## BL/BR:AftLow 52.20000  
## BLK:AftHigh 53.48931  
## BLK:AftLow 51.10000  
## BRN:AftHigh 55.50726  
## BRN:AftLow 53.85000  
## WHT:AftHigh 53.32505  
## WHT:AftLow 50.20000  
## WT/BLK:AftHigh 55.41709  
## WT/BLK:AftLow 54.10000  
## WT/BR:AftHigh 56.42111  
## WT/BR:AftLow 54.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.36506 a  
## WT/BR:AftLow 54.80000 ab  
## WT/BLK:AftHigh 54.44646 abc  
## BRN:AftHigh 54.38662 abc  
## BL/BR:AftHigh 54.36312 abc  
## BLK:AftHigh 52.83480 abc  
## WT/BLK:AftLow 52.80000 abc  
## WHT:AftHigh 52.56719 abc  
## BRN:AftLow 51.76667 abc  
## BL/BR:AftLow 51.23333 abc  
## BLK:AftLow 49.83333 bc  
## WHT:AftLow 48.70000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT20 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 338.59 67.717 44.6403 2.209e-11 \*\*\*  
## THIregime 1 93.62 93.618 61.7141 4.348e-08 \*\*\*  
## Colour:THIregime 5 17.60 3.520 2.3204 0.07459 .   
## Residuals 24 36.41 1.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516955   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.09114 2.5193126 6 49.2 54.74629  
## BLK 51.18547 2.3612753 6 47.3 53.91991  
## BRN 53.80538 1.5201576 6 52.1 55.34589  
## WHT 48.26667 3.2889777 6 44.2 51.95928  
## WT/BLK 56.40551 0.9906805 6 55.2 57.60154  
## WT/BR 57.22144 1.8688343 6 53.9 59.16217  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.198647   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.22144 a  
## WT/BLK 56.40551 a  
## BRN 53.80538 b  
## BL/BR 52.09114 bc  
## BLK 51.18547 c  
## WHT 48.26667 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516955   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.77521 2.613180 18 50.31141 59.16217  
## AftLow 51.55000 4.032989 18 44.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8473315   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.77521 a  
## AftLow 51.55000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.516955 24 53.1626 2.316755 3.625949  
##   
## $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 54.34894 0.5205400 3 53.75970 54.74629 54.15027 54.54084  
## BL/BR:AftLow 49.83333 0.5507571 3 49.20000 50.20000 49.65000 50.10000  
## BLK:AftHigh 52.73761 1.1909388 3 51.53822 53.91991 52.14645 52.75469  
## BLK:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## BRN:AftHigh 55.17743 0.1905536 3 54.97062 55.34589 55.09320 55.21579  
## BRN:AftLow 52.43333 0.3055050 3 52.10000 52.70000 52.30000 52.50000  
## WHT:AftHigh 51.03333 0.8426686 3 50.31141 51.95928 50.57036 50.82931  
## WHT:AftLow 45.50000 1.8357560 3 44.20000 47.60000 44.45000 44.70000  
## WT/BLK:AftHigh 57.24436 0.4891739 3 56.68682 57.60154 57.06577 57.44473  
## WT/BLK:AftLow 55.56667 0.3214550 3 55.20000 55.80000 55.45000 55.70000  
## WT/BR:AftHigh 58.10955 1.3423112 3 56.59796 59.16217 57.58325 58.56854  
## WT/BR:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## Q75  
## BL/BR:AftHigh 54.64357  
## BL/BR:AftLow 50.15000  
## BLK:AftHigh 53.33730  
## BLK:AftLow 50.80000  
## BRN:AftHigh 55.28084  
## BRN:AftLow 52.60000  
## WHT:AftHigh 51.39430  
## WHT:AftLow 46.15000  
## WT/BLK:AftHigh 57.52314  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 58.86535  
## WT/BR:AftLow 57.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.10955 a  
## WT/BLK:AftHigh 57.24436 ab  
## WT/BR:AftLow 56.33333 abc  
## WT/BLK:AftLow 55.56667 abcd  
## BRN:AftHigh 55.17743 abcd  
## BL/BR:AftHigh 54.34894 bcde  
## BLK:AftHigh 52.73761 cdef  
## BRN:AftLow 52.43333 def  
## WHT:AftHigh 51.03333 ef  
## BL/BR:AftLow 49.83333 f  
## BLK:AftLow 49.63333 f  
## WHT:AftLow 45.50000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT21 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.36 66.473 56.1739 1.835e-12 \*\*\*  
## THIregime 1 121.67 121.666 102.8157 3.745e-10 \*\*\*  
## Colour:THIregime 5 6.82 1.364 1.1526 0.3607   
## Residuals 24 28.40 1.183   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.183337   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.86320 2.285366 6 49.9 55.33433  
## BLK 51.03915 2.251446 6 47.3 53.64038  
## BRN 50.63101 2.345304 6 48.1 52.85990  
## WHT 48.10328 2.825391 6 45.2 50.95018  
## WT/BLK 57.15741 2.063593 6 54.2 59.84915  
## WT/BR 55.43616 1.828513 6 53.1 57.59109  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.941885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.15741 a  
## WT/BR 55.43616 a  
## BL/BR 52.86320 b  
## BLK 51.03915 bc  
## BRN 50.63101 c  
## WHT 48.10328 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.183337   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.37674 2.874462 18 50.48667 59.84915  
## AftLow 50.70000 3.655133 18 45.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7483786   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.37674 a  
## AftLow 50.70000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.183337 24 52.53837 2.070512 3.202504  
##   
## $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 54.85974 0.6288515 3 54.14649 55.33433 54.62244 55.09839  
## BL/BR:AftLow 50.86667 0.8386497 3 49.90000 51.40000 50.60000 51.30000  
## BLK:AftHigh 52.44497 1.2042531 3 51.23207 53.64038 51.84726 52.46245  
## BLK:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## BRN:AftHigh 52.76203 0.0864298 3 52.69620 52.85990 52.71309 52.72998  
## BRN:AftLow 48.50000 0.3464102 3 48.10000 48.70000 48.40000 48.70000  
## WHT:AftHigh 50.67323 0.2446195 3 50.48667 50.95018 50.53476 50.58284  
## WHT:AftLow 45.53333 0.2886751 3 45.20000 45.70000 45.45000 45.70000  
## WT/BLK:AftHigh 58.51481 1.2281622 3 57.43166 59.84915 57.84764 58.26363  
## WT/BLK:AftLow 55.80000 1.9000000 3 54.20000 57.90000 54.75000 55.30000  
## WT/BR:AftHigh 57.00566 0.5703900 3 56.45160 57.59109 56.71295 56.97430  
## WT/BR:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## Q75  
## BL/BR:AftHigh 55.21636  
## BL/BR:AftLow 51.35000  
## BLK:AftHigh 53.05142  
## BLK:AftLow 50.80000  
## BRN:AftHigh 52.79494  
## BRN:AftLow 48.70000  
## WHT:AftHigh 50.76651  
## WHT:AftLow 45.70000  
## WT/BLK:AftHigh 59.05639  
## WT/BLK:AftLow 56.60000  
## WT/BR:AftHigh 57.28269  
## WT/BR:AftLow 54.25000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.51481 a  
## WT/BR:AftHigh 57.00566 ab  
## WT/BLK:AftLow 55.80000 abc  
## BL/BR:AftHigh 54.85974 bcd  
## WT/BR:AftLow 53.86667 bcde  
## BRN:AftHigh 52.76203 cdef  
## BLK:AftHigh 52.44497 def  
## BL/BR:AftLow 50.86667 efg  
## WHT:AftHigh 50.67323 efg  
## BLK:AftLow 49.63333 fg  
## BRN:AftLow 48.50000 gh  
## WHT:AftLow 45.53333 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT22 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 378.29 75.658 30.0539 1.377e-09 \*\*\*  
## THIregime 1 66.30 66.300 26.3366 2.977e-05 \*\*\*  
## Colour:THIregime 5 29.78 5.957 2.3662 0.07014 .   
## Residuals 24 60.42 2.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.517402   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.29820 2.1161933 6 51.5 57.34600  
## BLK 51.68520 2.7935726 6 47.3 54.96531  
## BRN 54.56106 1.4766094 6 52.6 56.02996  
## WHT 47.47944 3.4567537 6 44.1 50.81259  
## WT/BLK 53.04506 2.1345049 6 49.5 55.32780  
## WT/BR 57.87351 0.5764523 6 57.1 58.68428  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.83234   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.87351 a  
## BL/BR 55.29820 ab  
## BRN 54.56106 b  
## WT/BLK 53.04506 bc  
## BLK 51.68520 c  
## WHT 47.47944 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.517402   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.68083 2.715213 18 50.30988 58.68428  
## AftLow 51.96667 4.492870 18 44.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.091549   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.68083 a  
## AftLow 51.96667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.517402 24 53.32375 2.97547 4.67102  
##   
## $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 56.59641 1.2040297 3 55.20757 57.34600 56.22161 57.23565  
## BL/BR:AftLow 54.00000 2.1656408 3 51.50000 55.30000 53.35000 55.20000  
## BLK:AftHigh 53.17040 1.6681328 3 51.66765 54.96531 52.27294 52.87823  
## BLK:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 55.85546 0.3020187 3 55.50672 56.02996 55.76821 56.02971  
## BRN:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## WHT:AftHigh 50.62554 0.2749341 3 50.30988 50.81259 50.53202 50.75417  
## WHT:AftLow 44.33333 0.3214550 3 44.10000 44.70000 44.15000 44.20000  
## WT/BLK:AftHigh 53.75679 1.8834199 3 51.66889 55.32780 52.97129 54.27368  
## WT/BLK:AftLow 52.33333 2.5146239 3 49.50000 54.30000 51.35000 53.20000  
## WT/BR:AftHigh 58.08035 0.6626156 3 57.37155 58.68428 57.77839 58.18522  
## WT/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## Q75  
## BL/BR:AftHigh 57.29082  
## BL/BR:AftLow 55.25000  
## BLK:AftHigh 53.92177  
## BLK:AftLow 51.65000  
## BRN:AftHigh 56.02983  
## BRN:AftLow 53.60000  
## WHT:AftHigh 50.78338  
## WHT:AftLow 44.45000  
## WT/BLK:AftHigh 54.80074  
## WT/BLK:AftLow 53.75000  
## WT/BR:AftHigh 58.43475  
## WT/BR:AftLow 57.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.08035 a  
## WT/BR:AftLow 57.66667 ab  
## BL/BR:AftHigh 56.59641 abc  
## BRN:AftHigh 55.85546 abc  
## BL/BR:AftLow 54.00000 abcd  
## WT/BLK:AftHigh 53.75679 abcd  
## BRN:AftLow 53.26667 bcd  
## BLK:AftHigh 53.17040 bcd  
## WT/BLK:AftLow 52.33333 cd  
## WHT:AftHigh 50.62554 d  
## BLK:AftLow 50.20000 d  
## WHT:AftLow 44.33333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT23 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 187.801 37.560 16.9756 3.393e-07 \*\*\*  
## THIregime 1 76.800 76.800 34.7101 4.451e-06 \*\*\*  
## Colour:THIregime 5 6.325 1.265 0.5717 0.7209   
## Residuals 24 53.103 2.213   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.212605   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.84017 1.264951 6 55.1 58.38559  
## BLK 51.42328 2.543830 6 47.3 54.40625  
## BRN 51.08799 2.556016 6 47.3 53.63649  
## WHT 52.43668 1.878545 6 50.2 54.62215  
## WT/BLK 54.52619 2.729954 6 49.9 57.96743  
## WT/BR 56.38256 1.288212 6 54.8 58.10184  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.655346   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.84017 a  
## WT/BR 56.38256 a  
## WT/BLK 54.52619 ab  
## WHT 52.43668 bc  
## BLK 51.42328 c  
## BRN 51.08799 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.212605   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.24340 2.169274 18 51.71245 58.38559  
## AftLow 52.32222 3.136419 18 47.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.023338   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.24340 a  
## AftLow 52.32222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.212605 24 53.78281 2.765721 4.379125  
##   
## $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 57.81367 0.5420356 3 57.30752 58.38559 57.52771 57.74790  
## BL/BR:AftLow 55.86667 0.9291573 3 55.10000 56.90000 55.35000 55.60000  
## BLK:AftHigh 53.01323 1.3492660 3 51.71245 54.40625 52.31673 52.92100  
## BLK:AftLow 49.83333 2.6025628 3 47.30000 52.50000 48.50000 49.70000  
## BRN:AftHigh 53.24266 0.6340436 3 52.51125 53.63649 53.04574 53.58023  
## BRN:AftLow 48.93333 1.4153916 3 47.30000 49.80000 48.50000 49.70000  
## WHT:AftHigh 54.00670 0.5330655 3 53.69051 54.62215 53.69897 53.70743  
## WHT:AftLow 50.86667 1.0692677 3 50.20000 52.10000 50.25000 50.30000  
## WT/BLK:AftHigh 56.08571 1.9083919 3 54.15172 57.96743 55.14485 56.13798  
## WT/BLK:AftLow 52.96667 2.7736859 3 49.90000 55.30000 51.80000 53.70000  
## WT/BR:AftHigh 57.29846 0.6991445 3 56.82794 58.10184 56.89677 56.96559  
## WT/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## Q75  
## BL/BR:AftHigh 58.06674  
## BL/BR:AftLow 56.25000  
## BLK:AftHigh 53.66363  
## BLK:AftLow 51.10000  
## BRN:AftHigh 53.60836  
## BRN:AftLow 49.75000  
## WHT:AftHigh 54.16479  
## WHT:AftLow 51.20000  
## WT/BLK:AftHigh 57.05271  
## WT/BLK:AftLow 54.50000  
## WT/BR:AftHigh 57.53371  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.81367 a  
## WT/BR:AftHigh 57.29846 ab  
## WT/BLK:AftHigh 56.08571 ab  
## BL/BR:AftLow 55.86667 ab  
## WT/BR:AftLow 55.46667 ab  
## WHT:AftHigh 54.00670 abc  
## BRN:AftHigh 53.24266 bcd  
## BLK:AftHigh 53.01323 bcd  
## WT/BLK:AftLow 52.96667 bcd  
## WHT:AftLow 50.86667 cd  
## BLK:AftLow 49.83333 cd  
## BRN:AftLow 48.93333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT24 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 432.41 86.483 54.4383 2.585e-12 \*\*\*  
## THIregime 1 135.68 135.678 85.4051 2.242e-09 \*\*\*  
## Colour:THIregime 5 13.19 2.638 1.6608 0.1825   
## Residuals 24 38.13 1.589   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.58864   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.15999 2.898972 6 50.1 58.22878  
## BLK 50.04476 2.613366 6 46.7 53.15146  
## BRN 55.13328 1.629329 6 53.4 56.83242  
## WHT 48.47763 3.575120 6 44.2 52.39087  
## WT/BLK 57.72333 2.038464 6 54.6 60.18891  
## WT/BR 57.07575 1.604435 6 55.2 58.68876  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.249997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.72333 a  
## WT/BR 57.07575 ab  
## BL/BR 55.15999 b  
## BRN 55.13328 b  
## BLK 50.04476 c  
## WHT 48.47763 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.58864   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.87714 3.125834 18 50.81225 60.18891  
## AftLow 51.99444 4.322509 18 44.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8671211   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.87714 a  
## AftLow 51.99444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.58864 24 53.93579 2.336876 3.710634  
##   
## $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 57.01999 1.6707358 3 55.11349 58.22878 56.41559 57.71770  
## BL/BR:AftLow 53.30000 2.8000000 3 50.10000 55.30000 52.30000 54.50000  
## BLK:AftHigh 52.18953 0.8684354 3 51.46322 53.15146 51.70856 51.95389  
## BLK:AftLow 47.90000 1.5874508 3 46.70000 49.70000 47.00000 47.30000  
## BRN:AftHigh 56.59990 0.2014181 3 56.47948 56.83242 56.48363 56.48779  
## BRN:AftLow 53.66667 0.3785939 3 53.40000 54.10000 53.45000 53.50000  
## WHT:AftHigh 51.65527 0.7947754 3 50.81225 52.39087 51.28746 51.76267  
## WHT:AftLow 45.30000 1.0148892 3 44.20000 46.20000 44.85000 45.50000  
## WT/BLK:AftHigh 59.27999 1.0370299 3 58.15038 60.18891 58.82553 59.50068  
## WT/BLK:AftLow 56.16667 1.4294521 3 54.60000 57.40000 55.55000 56.50000  
## WT/BR:AftHigh 58.51817 0.2246579 3 58.26363 58.68876 58.43288 58.60214  
## WT/BR:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.97324  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 52.55268  
## BLK:AftLow 48.50000  
## BRN:AftHigh 56.66011  
## BRN:AftLow 53.80000  
## WHT:AftHigh 52.07677  
## WHT:AftLow 45.85000  
## WT/BLK:AftHigh 59.84479  
## WT/BLK:AftLow 56.95000  
## WT/BR:AftHigh 58.64545  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.27999 a  
## WT/BR:AftHigh 58.51817 a  
## BL/BR:AftHigh 57.01999 ab  
## BRN:AftHigh 56.59990 abc  
## WT/BLK:AftLow 56.16667 abc  
## WT/BR:AftLow 55.63333 abcd  
## BRN:AftLow 53.66667 bcde  
## BL/BR:AftLow 53.30000 cde  
## BLK:AftHigh 52.18953 de  
## WHT:AftHigh 51.65527 e  
## BLK:AftLow 47.90000 f  
## WHT:AftLow 45.30000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT25 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 271.730 54.346 31.0280 9.948e-10 \*\*\*  
## THIregime 1 105.129 105.129 60.0219 5.543e-08 \*\*\*  
## Colour:THIregime 5 10.578 2.116 1.2079 0.3355   
## Residuals 24 42.036 1.752   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.751509   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.82954 2.102273 6 51.4 57.28792  
## BLK 49.91556 2.670845 6 46.3 53.09919  
## BRN 54.11169 1.841298 6 51.5 56.25860  
## WHT 49.27084 3.089407 6 45.6 52.68816  
## WT/BLK 56.19629 2.153371 6 53.1 58.96056  
## WT/BR 55.79599 1.556886 6 53.7 57.74342  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.36252   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.19629 a  
## WT/BR 55.79599 a  
## BL/BR 54.82954 a  
## BRN 54.11169 a  
## BLK 49.91556 b  
## WHT 49.27084 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.751509   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.06219 2.422196 18 51.19506 58.96056  
## AftLow 51.64444 3.634835 18 45.60000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9104861   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.06219 a  
## AftLow 51.64444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.751509 24 53.35332 2.480532 3.896204  
##   
## $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 56.25907 1.0526934 3 55.18405 57.28792 55.74465 56.30524  
## BL/BR:AftLow 53.40000 1.9519221 3 51.40000 55.30000 52.45000 53.50000  
## BLK:AftHigh 52.06446 0.9627740 3 51.19506 53.09919 51.54709 51.89913  
## BLK:AftLow 47.76667 1.7473790 3 46.30000 49.70000 46.80000 47.30000  
## BRN:AftHigh 55.62338 0.6405739 3 54.97759 56.25860 55.30577 55.63395  
## BRN:AftLow 52.60000 1.1000000 3 51.50000 53.70000 52.05000 52.60000  
## WHT:AftHigh 51.97501 0.7071746 3 51.27397 52.68816 51.61844 51.96291  
## WHT:AftLow 46.56667 1.1930353 3 45.60000 47.90000 45.90000 46.20000  
## WT/BLK:AftHigh 57.45925 1.3725875 3 56.26866 58.96056 56.70859 57.14853  
## WT/BLK:AftLow 54.93333 2.2188586 3 53.10000 57.40000 53.70000 54.30000  
## WT/BR:AftHigh 56.99197 0.6622604 3 56.49342 57.74342 56.61625 56.73909  
## WT/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## Q75  
## BL/BR:AftHigh 56.79658  
## BL/BR:AftLow 54.40000  
## BLK:AftHigh 52.49916  
## BLK:AftLow 48.50000  
## BRN:AftHigh 55.94628  
## BRN:AftLow 53.15000  
## WHT:AftHigh 52.32554  
## WHT:AftLow 47.05000  
## WT/BLK:AftHigh 58.05455  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 57.24125  
## WT/BR:AftLow 55.05000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 57.45925 a  
## WT/BR:AftHigh 56.99197 ab  
## BL/BR:AftHigh 56.25907 abc  
## BRN:AftHigh 55.62338 abcd  
## WT/BLK:AftLow 54.93333 abcd  
## WT/BR:AftLow 54.60000 abcd  
## BL/BR:AftLow 53.40000 bcd  
## BRN:AftLow 52.60000 cd  
## BLK:AftHigh 52.06446 d  
## WHT:AftHigh 51.97501 d  
## BLK:AftLow 47.76667 e  
## WHT:AftLow 46.56667 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 1448.97 289.794 3.9016 0.009922 \*\*  
## THIregime 1 218.04 218.039 2.9355 0.099542 .   
## Colour:THIregime 5 54.45 10.889 0.1466 0.979149   
## Residuals 24 1782.63 74.276   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 74.27639   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.63267 2.763171 6 50.2 56.98475  
## BLK 38.49420 19.527276 6 3.5 52.30564  
## BRN 49.12010 2.844939 6 46.2 52.02473  
## WHT 48.28291 2.922120 6 44.5 51.74077  
## WT/BLK 56.69473 1.703263 6 54.3 58.47706  
## WT/BR 57.00820 1.593893 6 54.8 58.88738  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 15.3849   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.00820 a  
## WT/BLK 56.69473 a  
## BL/BR 53.63267 ab  
## BRN 49.12010 ab  
## WHT 48.28291 ab  
## BLK 38.49420 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 74.27639   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 52.99983 7.216308 18 27.09177 58.88738  
## AftLow 48.07778 11.883679 18 3.50000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 5.92915   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 52.99983 a  
## AftLow 48.07778 a  
## $statistics  
## MSerror Df Mean CV MSD  
## 74.27639 24 50.5388 17.05299 25.37236  
##   
## $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 55.59868 1.2119833 3 54.73831 56.98475 54.90564 55.07298  
## BL/BR:AftLow 51.66667 2.4542480 3 50.20000 54.50000 50.25000 50.30000  
## BLK:AftHigh 43.48840 14.2133807 3 27.09177 52.30564 39.07978 51.06779  
## BLK:AftLow 33.50000 26.0084602 3 3.50000 49.70000 25.40000 47.30000  
## BRN:AftHigh 51.70686 0.2771502 3 51.51582 52.02473 51.54793 51.58004  
## BRN:AftLow 46.53333 0.2886751 3 46.20000 46.70000 46.45000 46.70000  
## WHT:AftHigh 50.76583 0.9286398 3 49.89171 51.74077 50.27836 50.66500  
## WHT:AftLow 45.80000 1.4106736 3 44.50000 47.30000 45.05000 45.60000  
## WT/BLK:AftHigh 58.12279 0.5579945 3 57.47958 58.47706 57.94565 58.41173  
## WT/BLK:AftLow 55.26667 0.9073772 3 54.30000 56.10000 54.85000 55.40000  
## WT/BR:AftHigh 58.31639 0.5541613 3 57.78075 58.88738 58.03090 58.28105  
## WT/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## Q75  
## BL/BR:AftHigh 56.02887  
## BL/BR:AftLow 52.40000  
## BLK:AftHigh 51.68671  
## BLK:AftLow 48.50000  
## BRN:AftHigh 51.80238  
## BRN:AftLow 46.70000  
## WHT:AftHigh 51.20288  
## WHT:AftLow 46.45000  
## WT/BLK:AftHigh 58.44439  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 58.58422  
## WT/BR:AftLow 56.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.31639 a  
## WT/BLK:AftHigh 58.12279 a  
## WT/BR:AftLow 55.70000 a  
## BL/BR:AftHigh 55.59868 a  
## WT/BLK:AftLow 55.26667 a  
## BRN:AftHigh 51.70686 a  
## BL/BR:AftLow 51.66667 a  
## WHT:AftHigh 50.76583 a  
## BRN:AftLow 46.53333 a  
## WHT:AftLow 45.80000 a  
## BLK:AftHigh 43.48840 a  
## BLK:AftLow 33.50000 a  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT27 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 292.951 58.590 29.894 1.453e-09 \*\*\*  
## THIregime 1 106.687 106.687 54.434 1.282e-07 \*\*\*  
## Colour:THIregime 5 5.076 1.015 0.518 0.7601   
## Residuals 24 47.038 1.960   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.95992   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.62664 2.418096 6 51.3 58.06152  
## BLK 49.96703 2.491825 6 46.8 52.94476  
## BRN 51.30354 2.425982 6 48.8 53.71748  
## WHT 51.73574 2.499887 6 47.8 54.66789  
## WT/BLK 56.14587 2.450563 6 52.5 59.40486  
## WT/BR 57.65010 1.250502 6 56.1 59.07555  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.499127   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.65010 a  
## WT/BLK 56.14587 a  
## BL/BR 55.62664 a  
## WHT 51.73574 b  
## BRN 51.30354 b  
## BLK 49.96703 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.95992   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.45964 2.729802 18 51.32005 59.40486  
## AftLow 52.01667 3.584156 18 46.80000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.963133   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.45964 a  
## AftLow 52.01667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.95992 24 53.73815 2.605172 4.121494  
##   
## $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 57.15328 1.2868940 3 55.68062 58.06152 56.69916 57.71770  
## BL/BR:AftLow 54.10000 2.4433583 3 51.30000 55.80000 53.25000 55.20000  
## BLK:AftHigh 52.00072 0.8437675 3 51.32005 52.94476 51.52870 51.73734  
## BLK:AftLow 47.93333 1.5502688 3 46.80000 49.70000 47.05000 47.30000  
## BRN:AftHigh 53.50709 0.2768611 3 53.19344 53.71748 53.40189 53.61035  
## BRN:AftLow 49.10000 0.2645751 3 48.80000 49.30000 49.00000 49.20000  
## WHT:AftHigh 53.60481 1.1401682 3 52.40068 54.66789 53.07327 53.74586  
## WHT:AftLow 49.86667 1.9604421 3 47.80000 51.70000 48.95000 50.10000  
## WT/BLK:AftHigh 57.79174 1.5641162 3 56.28172 59.40486 56.98519 57.68866  
## WT/BLK:AftLow 54.50000 2.1071308 3 52.50000 56.70000 53.40000 54.30000  
## WT/BR:AftHigh 58.70021 0.3335276 3 58.43786 59.07555 58.51253 58.58720  
## WT/BR:AftLow 56.60000 0.7000000 3 56.10000 57.40000 56.20000 56.30000  
## Q75  
## BL/BR:AftHigh 57.88961  
## BL/BR:AftLow 55.50000  
## BLK:AftHigh 52.34105  
## BLK:AftLow 48.50000  
## BRN:AftHigh 53.66391  
## BRN:AftLow 49.25000  
## WHT:AftHigh 54.20687  
## WHT:AftLow 50.90000  
## WT/BLK:AftHigh 58.54676  
## WT/BLK:AftLow 55.50000  
## WT/BR:AftHigh 58.83138  
## WT/BR:AftLow 56.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.70021 a  
## WT/BLK:AftHigh 57.79174 ab  
## BL/BR:AftHigh 57.15328 abc  
## WT/BR:AftLow 56.60000 abc  
## WT/BLK:AftLow 54.50000 bcd  
## BL/BR:AftLow 54.10000 bcd  
## WHT:AftHigh 53.60481 cde  
## BRN:AftHigh 53.50709 cde  
## BLK:AftHigh 52.00072 def  
## WHT:AftLow 49.86667 ef  
## BRN:AftLow 49.10000 f  
## BLK:AftLow 47.93333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT28 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 194.471 38.894 9.5727 4.018e-05 \*\*\*  
## THIregime 1 97.887 97.887 24.0919 5.244e-05 \*\*\*  
## Colour:THIregime 5 6.302 1.260 0.3102 0.9019   
## Residuals 24 97.513 4.063   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.063055   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.33031 1.674505 6 55.3 59.45422  
## BLK 52.21488 3.181805 6 47.3 56.00390  
## BRN 54.56471 2.495995 6 50.4 57.20750  
## WHT 51.71718 3.500225 6 45.7 55.56301  
## WT/BLK 57.26911 2.602521 6 52.6 59.90142  
## WT/BR 56.76426 1.468990 6 54.9 58.29847  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.598285   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.33031 a  
## WT/BLK 57.26911 a  
## WT/BR 56.76426 a  
## BRN 54.56471 ab  
## BLK 52.21488 b  
## WHT 51.71718 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.063055   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.62571 2.303074 18 52.28633 59.90142  
## AftLow 53.32778 3.498875 18 45.70000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.386735   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.62571 a  
## AftLow 53.32778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.063055 24 54.97674 3.666464 5.934195  
##   
## $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 58.49395 0.8332985 3 57.96090 59.45422 58.01382 58.06674  
## BL/BR:AftLow 56.16667 1.5011107 3 55.30000 57.90000 55.30000 55.30000  
## BLK:AftHigh 54.06309 1.7800868 3 52.50646 56.00390 53.09269 53.67891  
## BLK:AftLow 50.36667 3.4486712 3 47.30000 54.10000 48.50000 49.70000  
## BRN:AftHigh 56.39609 1.1789066 3 55.04379 57.20750 55.99038 56.93696  
## BRN:AftLow 52.73333 2.0305993 3 50.40000 54.10000 52.05000 53.70000  
## WHT:AftHigh 54.10102 1.6665682 3 52.28633 55.56301 53.37003 54.45372  
## WHT:AftLow 49.33333 3.2868425 3 45.70000 52.10000 47.95000 50.20000  
## WT/BLK:AftHigh 58.63823 1.7548117 3 56.63455 59.90142 58.00663 59.37872  
## WT/BLK:AftLow 55.90000 2.8687977 3 52.60000 57.80000 54.95000 57.30000  
## WT/BR:AftHigh 58.06185 0.2833167 3 57.74790 58.29847 57.94354 58.13917  
## WT/BR:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## Q75  
## BL/BR:AftHigh 58.76048  
## BL/BR:AftLow 56.60000  
## BLK:AftHigh 54.84141  
## BLK:AftLow 51.90000  
## BRN:AftHigh 57.07223  
## BRN:AftLow 53.90000  
## WHT:AftHigh 55.00837  
## WHT:AftLow 51.15000  
## WT/BLK:AftHigh 59.64007  
## WT/BLK:AftLow 57.55000  
## WT/BR:AftHigh 58.21882  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.63823 a  
## BL/BR:AftHigh 58.49395 a  
## WT/BR:AftHigh 58.06185 a  
## BRN:AftHigh 56.39609 a  
## BL/BR:AftLow 56.16667 ab  
## WT/BLK:AftLow 55.90000 ab  
## WT/BR:AftLow 55.46667 ab  
## WHT:AftHigh 54.10102 abc  
## BLK:AftHigh 54.06309 abc  
## BRN:AftLow 52.73333 abc  
## BLK:AftLow 50.36667 bc  
## WHT:AftLow 49.33333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT29 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 225.278 45.056 21.9751 3.047e-08 \*\*\*  
## THIregime 1 88.127 88.127 42.9822 8.826e-07 \*\*\*  
## Colour:THIregime 5 7.462 1.492 0.7279 0.6094   
## Residuals 24 49.207 2.050   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.050303   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.65192 2.707060 6 49.2 55.89754  
## BLK 51.18619 2.367691 6 47.3 53.94264  
## BRN 49.62622 2.606652 6 46.3 52.39464  
## WHT 52.75582 1.321111 6 51.3 54.12558  
## WT/BLK 55.41824 2.369441 6 51.3 57.79320  
## WT/BR 57.11584 1.367781 6 54.9 58.63649  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.556102   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11584 a  
## WT/BLK 55.41824 a  
## WHT 52.75582 b  
## BL/BR 52.65192 b  
## BLK 51.18619 bc  
## BRN 49.62622 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.050303   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.69030 2.412767 18 51.18975 58.63649  
## AftLow 51.56111 3.280807 18 46.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9850905   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.69030 a  
## AftLow 51.56111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.050303 24 53.12571 2.695283 4.215455  
##   
## $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 54.67050 1.0644576 3 53.99491 55.89754 54.05698 54.11905  
## BL/BR:AftLow 50.63333 2.2278540 3 49.20000 53.20000 49.35000 49.50000  
## BLK:AftHigh 52.60572 1.3101166 3 51.32416 53.94264 51.93726 52.55036  
## BLK:AftLow 49.76667 2.5006666 3 47.30000 52.30000 48.50000 49.70000  
## BRN:AftHigh 51.91911 0.6412943 3 51.18975 52.39464 51.68134 52.17293  
## BRN:AftLow 47.33333 0.8962886 3 46.30000 47.90000 47.05000 47.80000  
## WHT:AftHigh 53.94497 0.1665523 3 53.79745 54.12558 53.85467 53.91189  
## WHT:AftLow 51.56667 0.3055050 3 51.30000 51.90000 51.40000 51.50000  
## WT/BLK:AftHigh 56.90315 1.4890984 3 55.18405 57.79320 56.45813 57.73222  
## WT/BLK:AftLow 53.93333 2.2810816 3 51.30000 55.30000 53.25000 55.20000  
## WT/BR:AftHigh 58.09835 0.5811651 3 57.48207 58.63649 57.82929 58.17651  
## WT/BR:AftLow 56.13333 1.2013881 3 54.90000 57.30000 55.55000 56.20000  
## Q75  
## BL/BR:AftHigh 55.00829  
## BL/BR:AftLow 51.35000  
## BLK:AftHigh 53.24650  
## BLK:AftLow 51.00000  
## BRN:AftHigh 52.28379  
## BRN:AftLow 47.85000  
## WHT:AftHigh 54.01874  
## WHT:AftLow 51.70000  
## WT/BLK:AftHigh 57.76271  
## WT/BLK:AftLow 55.25000  
## WT/BR:AftHigh 58.40650  
## WT/BR:AftLow 56.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.09835 a  
## WT/BLK:AftHigh 56.90315 a  
## WT/BR:AftLow 56.13333 ab  
## BL/BR:AftHigh 54.67050 abc  
## WHT:AftHigh 53.94497 abcd  
## WT/BLK:AftLow 53.93333 abcd  
## BLK:AftHigh 52.60572 bcd  
## BRN:AftHigh 51.91911 bcd  
## WHT:AftLow 51.56667 cd  
## BL/BR:AftLow 50.63333 cde  
## BLK:AftLow 49.76667 de  
## BRN:AftLow 47.33333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT30 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 351.09 70.219 24.7464 9.606e-09 \*\*\*  
## THIregime 1 131.17 131.168 46.2258 4.947e-07 \*\*\*  
## Colour:THIregime 5 9.38 1.877 0.6614 0.6561   
## Residuals 24 68.10 2.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837539   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48043 3.107612 6 49.9 58.54893  
## BLK 50.20810 2.686847 6 46.9 53.37480  
## BRN 54.49353 2.431994 6 50.4 57.05472  
## WHT 49.62773 3.751027 6 44.6 54.06751  
## WT/BLK 57.59988 1.562402 6 55.9 59.35259  
## WT/BR 57.10983 1.558269 6 55.4 58.67830  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.007046   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.59988 a  
## WT/BR 57.10983 ab  
## BL/BR 55.48043 ab  
## BRN 54.49353 b  
## BLK 50.20810 c  
## WHT 49.62773 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837539   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.99539 2.886764 18 51.29224 59.35259  
## AftLow 52.17778 4.108178 18 44.60000 56.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.158879   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.99539 a  
## AftLow 52.17778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.837539 24 54.08659 3.11445 4.95914  
##   
## $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 57.26087 1.9269940 3 55.04554 58.54893 56.61683 58.18813  
## BL/BR:AftLow 53.70000 3.3045423 3 49.90000 55.90000 52.60000 55.30000  
## BLK:AftHigh 52.44953 0.8261205 3 51.78593 53.37480 51.98690 52.18786  
## BLK:AftLow 47.96667 1.5143756 3 46.90000 49.70000 47.10000 47.30000  
## BRN:AftHigh 56.25373 1.1697345 3 54.91138 57.05472 55.85323 56.79509  
## BRN:AftLow 52.73333 2.0305993 3 50.40000 54.10000 52.05000 53.70000  
## WHT:AftHigh 52.48880 1.4265514 3 51.29224 54.06751 51.69945 52.10666  
## WHT:AftLow 46.76667 2.9297326 3 44.60000 50.10000 45.10000 45.60000  
## WT/BLK:AftHigh 58.99976 0.3061813 3 58.80375 59.35259 58.82335 58.84295  
## WT/BLK:AftLow 56.20000 0.3605551 3 55.90000 56.60000 56.00000 56.10000  
## WT/BR:AftHigh 58.51967 0.1939454 3 58.30345 58.67830 58.44035 58.57725  
## WT/BR:AftLow 55.70000 0.2645751 3 55.40000 55.90000 55.60000 55.80000  
## Q75  
## BL/BR:AftHigh 58.36853  
## BL/BR:AftLow 55.60000  
## BLK:AftHigh 52.78133  
## BLK:AftLow 48.50000  
## BRN:AftHigh 56.92490  
## BRN:AftLow 53.90000  
## WHT:AftHigh 53.08708  
## WHT:AftLow 47.85000  
## WT/BLK:AftHigh 59.09777  
## WT/BLK:AftLow 56.35000  
## WT/BR:AftHigh 58.62777  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.99976 a  
## WT/BR:AftHigh 58.51967 ab  
## BL/BR:AftHigh 57.26087 abc  
## BRN:AftHigh 56.25373 abc  
## WT/BLK:AftLow 56.20000 abc  
## WT/BR:AftLow 55.70000 abc  
## BL/BR:AftLow 53.70000 bc  
## BRN:AftLow 52.73333 cd  
## WHT:AftHigh 52.48880 cd  
## BLK:AftHigh 52.44953 cd  
## BLK:AftLow 47.96667 de  
## WHT:AftLow 46.76667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT31 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.79 66.558 46.1944 1.531e-11 \*\*\*  
## THIregime 1 70.80 70.797 49.1363 3.011e-07 \*\*\*  
## Colour:THIregime 5 16.02 3.204 2.2234 0.08499 .   
## Residuals 24 34.58 1.441   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.440823   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.10269 1.004911 6 56.5 59.16311  
## BLK 50.99659 2.341335 6 47.3 53.47903  
## BRN 49.94841 2.952101 6 46.3 53.08622  
## WHT 53.06416 1.636458 6 51.2 54.87769  
## WT/BLK 55.64985 2.291931 6 51.6 57.78449  
## WT/BR 57.11906 1.068310 6 55.7 58.33332  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.142765   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.10269 a  
## WT/BR 57.11906 ab  
## WT/BLK 55.64985 b  
## WHT 53.06416 c  
## BLK 50.99659 cd  
## BRN 49.94841 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.440823   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.54914 2.571598 18 51.78912 59.16311  
## AftLow 52.74444 3.992378 18 46.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8257952   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.54914 a  
## AftLow 52.74444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.440823 24 54.14679 2.216831 3.53379  
##   
## $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 58.87204 0.3249165 3 58.52149 59.16311 58.72651 58.93152  
## BL/BR:AftLow 57.33333 0.8020806 3 56.50000 58.10000 56.95000 57.40000  
## BLK:AftHigh 52.85984 0.8038398 3 51.95140 53.47903 52.55024 53.14909  
## BLK:AftLow 49.13333 1.6258331 3 47.30000 50.40000 48.50000 49.70000  
## BRN:AftHigh 52.56348 0.6841805 3 51.78912 53.08622 52.30211 52.81510  
## BRN:AftLow 47.33333 0.8962886 3 46.30000 47.90000 47.05000 47.80000  
## WHT:AftHigh 54.49498 0.3314714 3 54.29873 54.87769 54.30363 54.30853  
## WHT:AftLow 51.63333 0.6658328 3 51.20000 52.40000 51.25000 51.30000  
## WT/BLK:AftHigh 56.59970 1.5217514 3 54.88350 57.78449 56.00731 57.13111  
## WT/BLK:AftLow 54.70000 2.8478062 3 51.60000 57.20000 53.45000 55.30000  
## WT/BR:AftHigh 57.90479 0.3711819 3 57.68368 58.33332 57.69052 57.69737  
## WT/BR:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## Q75  
## BL/BR:AftHigh 59.04731  
## BL/BR:AftLow 57.75000  
## BLK:AftHigh 53.31406  
## BLK:AftLow 50.05000  
## BRN:AftHigh 52.95066  
## BRN:AftLow 47.85000  
## WHT:AftHigh 54.59311  
## WHT:AftLow 51.85000  
## WT/BLK:AftHigh 57.45780  
## WT/BLK:AftLow 56.25000  
## WT/BR:AftHigh 58.01534  
## WT/BR:AftLow 56.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.87204 a  
## WT/BR:AftHigh 57.90479 ab  
## BL/BR:AftLow 57.33333 ab  
## WT/BLK:AftHigh 56.59970 ab  
## WT/BR:AftLow 56.33333 abc  
## WT/BLK:AftLow 54.70000 bcd  
## WHT:AftHigh 54.49498 bcd  
## BLK:AftHigh 52.85984 cd  
## BRN:AftHigh 52.56348 de  
## WHT:AftLow 51.63333 de  
## BLK:AftLow 49.13333 ef  
## BRN:AftLow 47.33333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT32 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 321.03 64.206 27.9056 2.911e-09 \*\*\*  
## THIregime 1 98.14 98.140 42.6542 9.373e-07 \*\*\*  
## Colour:THIregime 5 14.55 2.909 1.2645 0.3113   
## Residuals 24 55.22 2.301   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.300826   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.48760 2.1971260 6 53.4 59.23933  
## BLK 50.15229 2.9029995 6 46.3 53.57200  
## BRN 55.18132 1.8177416 6 53.2 56.98636  
## WHT 51.21600 3.8318054 6 44.4 54.99094  
## WT/BLK 56.54784 1.1948855 6 55.1 58.05890  
## WT/BR 58.42150 0.9548781 6 57.4 59.31898  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.707765   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.42150 a  
## WT/BLK 56.54784 ab  
## BL/BR 56.48760 ab  
## BRN 55.18132 b  
## WHT 51.21600 c  
## BLK 50.15229 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.300826   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.31885 2.587648 18 51.64603 59.31898  
## AftLow 53.01667 4.036342 18 44.40000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.04354   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.31885 a  
## AftLow 53.01667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.300826 24 54.66776 2.774665 4.465574  
##   
## $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 57.94188 1.14906894 3 57.05271 59.23933 57.29315 57.53359  
## BL/BR:AftLow 55.03333 2.09841210 3 53.40000 57.40000 53.85000 54.30000  
## BLK:AftHigh 52.53792 0.97033379 3 51.64731 53.57200 52.02088 52.39445  
## BLK:AftLow 47.76667 1.74737899 3 46.30000 49.70000 46.80000 47.30000  
## BRN:AftHigh 56.82931 0.17184895 3 56.64575 56.98636 56.75078 56.85582  
## BRN:AftLow 53.53333 0.28867513 3 53.20000 53.70000 53.45000 53.70000  
## WHT:AftHigh 53.76534 1.84286520 3 51.64603 54.99094 53.15254 54.65905  
## WHT:AftLow 48.66667 3.71662930 3 44.40000 51.20000 47.40000 50.40000  
## WT/BLK:AftHigh 57.56234 0.46733443 3 57.13111 58.05890 57.31406 57.49700  
## WT/BLK:AftLow 55.53333 0.51316014 3 55.10000 56.10000 55.25000 55.40000  
## WT/BR:AftHigh 59.27634 0.06258623 3 59.20449 59.31898 59.25501 59.30554  
## WT/BR:AftLow 57.56667 0.28867513 3 57.40000 57.90000 57.40000 57.40000  
## Q75  
## BL/BR:AftHigh 58.38646  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 52.98323  
## BLK:AftLow 48.50000  
## BRN:AftHigh 56.92109  
## BRN:AftLow 53.70000  
## WHT:AftHigh 54.82500  
## WHT:AftLow 50.80000  
## WT/BLK:AftHigh 57.77795  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 59.31226  
## WT/BR:AftLow 57.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 59.27634 a  
## BL/BR:AftHigh 57.94188 ab  
## WT/BR:AftLow 57.56667 ab  
## WT/BLK:AftHigh 57.56234 ab  
## BRN:AftHigh 56.82931 abc  
## WT/BLK:AftLow 55.53333 abc  
## BL/BR:AftLow 55.03333 abc  
## WHT:AftHigh 53.76534 bc  
## BRN:AftLow 53.53333 bc  
## BLK:AftHigh 52.53792 cd  
## WHT:AftLow 48.66667 de  
## BLK:AftLow 47.76667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT33 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 379.88 75.976 31.7802 7.787e-10 \*\*\*  
## THIregime 1 110.02 110.021 46.0214 5.127e-07 \*\*\*  
## Colour:THIregime 5 19.85 3.969 1.6603 0.1826   
## Residuals 24 57.38 2.391   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.390658   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.81003 1.659126 6 54.3 58.81682  
## BLK 51.77757 2.861380 6 47.3 55.14712  
## BRN 51.72716 3.351347 6 47.7 56.07767  
## WHT 47.85042 3.444772 6 43.6 51.20308  
## WT/BLK 55.70742 1.363904 6 54.3 57.02657  
## WT/BR 56.58317 1.245119 6 54.9 57.87782  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.760119   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.81003 a  
## WT/BR 56.58317 a  
## WT/BLK 55.70742 a  
## BLK 51.77757 b  
## BRN 51.72716 b  
## WHT 47.85042 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.390658   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.15748 2.786706 18 50.55489 58.81682  
## AftLow 51.66111 4.372930 18 43.60000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.063716   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.15748 a  
## AftLow 51.66111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.390658 24 53.4093 2.894955 4.551915  
##   
## $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 57.95339 0.81029211 3 57.20952 58.81682 57.52168 57.83385  
## BL/BR:AftLow 55.66667 1.51767366 3 54.30000 57.30000 54.85000 55.40000  
## BLK:AftHigh 53.32181 1.69155691 3 51.80704 55.14712 52.40916 53.01128  
## BLK:AftLow 50.23333 3.23316151 3 47.30000 53.70000 48.50000 49.70000  
## BRN:AftHigh 54.12100 1.69829159 3 53.02966 56.07767 53.14266 53.25566  
## BRN:AftLow 49.33333 2.82901632 3 47.70000 52.60000 47.70000 47.70000  
## WHT:AftHigh 50.93418 0.33789759 3 50.55489 51.20308 50.79972 51.04456  
## WHT:AftLow 44.76667 1.01159939 3 43.60000 45.40000 44.45000 45.30000  
## WT/BLK:AftHigh 56.94817 0.09423108 3 56.84363 57.02657 56.90896 56.97430  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 57.66634 0.29332456 3 57.33148 57.87782 57.56060 57.78971  
## WT/BR:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## Q75  
## BL/BR:AftHigh 58.32533  
## BL/BR:AftLow 56.35000  
## BLK:AftHigh 54.07920  
## BLK:AftLow 51.70000  
## BRN:AftHigh 54.66667  
## BRN:AftLow 50.15000  
## WHT:AftHigh 51.12382  
## WHT:AftLow 45.35000  
## WT/BLK:AftHigh 57.00044  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 57.83377  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.95339 a  
## WT/BR:AftHigh 57.66634 ab  
## WT/BLK:AftHigh 56.94817 ab  
## BL/BR:AftLow 55.66667 ab  
## WT/BR:AftLow 55.50000 ab  
## WT/BLK:AftLow 54.46667 abc  
## BRN:AftHigh 54.12100 abc  
## BLK:AftHigh 53.32181 bcd  
## WHT:AftHigh 50.93418 cd  
## BLK:AftLow 50.23333 cd  
## BRN:AftLow 49.33333 d  
## WHT:AftLow 44.76667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT34 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 288.742 57.748 21.9459 3.086e-08 \*\*\*  
## THIregime 1 86.268 86.268 32.7841 6.713e-06 \*\*\*  
## Colour:THIregime 5 15.756 3.151 1.1976 0.3401   
## Residuals 24 63.154 2.631   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.631397   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.17947 1.648270 6 54.3 58.85602  
## BLK 50.46412 2.610642 6 47.3 53.47459  
## BRN 55.11032 1.582330 6 53.6 56.60439  
## WHT 50.65050 4.197131 6 43.2 54.90310  
## WT/BLK 55.11040 1.387541 6 53.1 56.71295  
## WT/BR 57.53990 1.207617 6 55.9 59.19204  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.895759   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.53990 a  
## BL/BR 57.17947 a  
## WT/BLK 55.11040 a  
## BRN 55.11032 a  
## WHT 50.65050 b  
## BLK 50.46412 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.631397   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89046 2.465081 18 50.48992 59.19204  
## AftLow 52.79444 3.943345 18 43.20000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.11599   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89046 a  
## AftLow 52.79444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.631397 24 54.34245 2.985066 4.775607  
##   
## $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 58.29228 0.82075661 3 57.35064 58.85602 58.01041 58.67017  
## BL/BR:AftLow 56.06667 1.55026879 3 54.30000 57.20000 55.50000 56.70000  
## BLK:AftHigh 52.69490 0.67534301 3 52.29240 53.47459 52.30506 52.31772  
## BLK:AftLow 48.23333 1.28582010 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 56.55397 0.06080319 3 56.48645 56.60439 56.52876 56.57107  
## BRN:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WHT:AftHigh 53.26767 2.41820792 3 50.48992 54.90310 52.44996 54.41000  
## WHT:AftLow 48.03333 4.20039681 3 43.20000 50.80000 46.65000 50.10000  
## WT/BLK:AftHigh 56.25414 0.53428399 3 55.66755 56.71295 56.02473 56.38191  
## WT/BLK:AftLow 53.96667 0.77674535 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 58.27981 0.82065848 3 57.60154 59.19204 57.82369 58.04584  
## WT/BR:AftLow 56.80000 1.15325626 3 55.90000 58.10000 56.15000 56.40000  
## Q75  
## BL/BR:AftHigh 58.76310  
## BL/BR:AftLow 56.95000  
## BLK:AftHigh 52.89616  
## BLK:AftLow 48.70000  
## BRN:AftHigh 56.58773  
## BRN:AftLow 53.70000  
## WHT:AftHigh 54.65655  
## WHT:AftLow 50.45000  
## WT/BLK:AftHigh 56.54743  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 58.61894  
## WT/BR:AftLow 57.25000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.29228 a  
## WT/BR:AftHigh 58.27981 a  
## WT/BR:AftLow 56.80000 ab  
## BRN:AftHigh 56.55397 ab  
## WT/BLK:AftHigh 56.25414 ab  
## BL/BR:AftLow 56.06667 ab  
## WT/BLK:AftLow 53.96667 ab  
## BRN:AftLow 53.66667 ab  
## WHT:AftHigh 53.26767 b  
## BLK:AftHigh 52.69490 bc  
## BLK:AftLow 48.23333 c  
## WHT:AftLow 48.03333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT35 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.460 61.692 29.2983 1.782e-09 \*\*\*  
## THIregime 1 77.565 77.565 36.8365 2.874e-06 \*\*\*  
## Colour:THIregime 5 12.433 2.487 1.1809 0.3476   
## Residuals 24 50.536 2.106   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.105649   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.57728 1.307207 6 55.3 59.03374  
## BLK 51.58408 2.732766 6 47.3 54.77214  
## BRN 49.86217 2.746537 6 46.9 52.41561  
## WHT 50.64592 2.816391 6 45.7 53.37382  
## WT/BLK 55.00314 1.355255 6 53.7 56.26866  
## WT/BR 56.23448 1.271815 6 54.2 57.61647  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.590372   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.57728 a  
## WT/BR 56.23448 a  
## WT/BLK 55.00314 a  
## BLK 51.58408 b  
## WHT 50.64592 b  
## BRN 49.86217 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.105649   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.95236 2.599353 18 51.07759 59.03374  
## AftLow 52.01667 3.884850 18 45.70000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9982977   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.95236 a  
## AftLow 52.01667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.105649 24 53.48451 2.713095 4.271972  
##   
## $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 58.35457 0.84229899 3 57.41206 59.03374 58.01498 58.61790  
## BL/BR:AftLow 56.80000 1.32287566 3 55.30000 57.80000 56.30000 57.30000  
## BLK:AftHigh 52.96817 1.67718916 3 51.45608 54.77214 52.06618 52.67628  
## BLK:AftLow 50.20000 3.17962262 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 52.35767 0.05222139 3 52.31423 52.41561 52.32870 52.34318  
## BRN:AftLow 47.36667 0.41633320 3 46.90000 47.70000 47.20000 47.50000  
## WHT:AftHigh 52.59184 1.31161442 3 51.07759 53.37382 52.20085 53.32411  
## WHT:AftLow 48.70000 2.59807621 3 45.70000 50.20000 47.95000 50.20000  
## WT/BLK:AftHigh 56.23962 0.04297363 3 56.19025 56.26866 56.22510 56.25994  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 57.20230 0.61680830 3 56.49342 57.61647 56.99521 57.49700  
## WT/BR:AftLow 55.26667 0.92376043 3 54.20000 55.80000 55.00000 55.80000  
## Q75  
## BL/BR:AftHigh 58.82582  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 53.72421  
## BLK:AftLow 51.65000  
## BRN:AftHigh 52.37939  
## BRN:AftLow 47.60000  
## WHT:AftHigh 53.34897  
## WHT:AftLow 50.20000  
## WT/BLK:AftHigh 56.26430  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 57.55674  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.35457 a  
## WT/BR:AftHigh 57.20230 ab  
## BL/BR:AftLow 56.80000 abc  
## WT/BLK:AftHigh 56.23962 abcd  
## WT/BR:AftLow 55.26667 abcd  
## WT/BLK:AftLow 53.76667 bcde  
## BLK:AftHigh 52.96817 bcdef  
## WHT:AftHigh 52.59184 cdef  
## BRN:AftHigh 52.35767 def  
## BLK:AftLow 50.20000 efg  
## WHT:AftLow 48.70000 fg  
## BRN:AftLow 47.36667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT36 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 425.09 85.018 99.2282 3.164e-15 \*\*\*  
## THIregime 1 114.27 114.266 133.3646 2.754e-11 \*\*\*  
## Colour:THIregime 5 20.25 4.049 4.7259 0.003807 \*\*   
## Residuals 24 20.56 0.857   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8567952   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51345 1.366421 6 55.2 57.77926  
## BLK 50.17267 2.314718 6 47.3 52.89249  
## BRN 51.17325 2.790629 6 48.3 53.84557  
## WHT 48.42538 3.448691 6 44.2 52.25838  
## WT/BLK 55.57819 1.326760 6 53.7 57.00043  
## WT/BR 57.45992 1.532493 6 54.7 58.93965  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.652372   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.45992 a  
## BL/BR 56.51345 ab  
## WT/BLK 55.57819 b  
## BRN 51.17325 c  
## BLK 50.17267 c  
## WHT 48.42538 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8567952   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.00207 2.868871 18 50.62811 58.93965  
## AftLow 51.43889 4.378979 18 44.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6368037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.00207 a  
## AftLow 51.43889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8567952 24 53.22048 1.739241 2.725047  
##   
## $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 57.76024 0.03181945 3 57.72350 57.77926 57.75073 57.77795  
## BL/BR:AftLow 55.26667 0.05773503 3 55.20000 55.30000 55.25000 55.30000  
## BLK:AftHigh 52.11200 0.67705444 3 51.68258 52.89249 51.72176 51.76094  
## BLK:AftLow 48.23333 1.28582010 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 53.71318 0.14865744 3 53.55236 53.84557 53.64698 53.74160  
## BRN:AftLow 48.63333 0.30550505 3 48.30000 48.90000 48.50000 48.70000  
## WHT:AftHigh 51.35076 0.83072890 3 50.62811 52.25838 50.89695 51.16580  
## WHT:AftLow 45.50000 1.83575598 3 44.20000 47.60000 44.45000 44.70000  
## WT/BLK:AftHigh 56.68972 0.50092715 3 56.11185 57.00043 56.53436 56.95688  
## WT/BLK:AftLow 54.46667 0.66583281 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 58.38650 0.80766547 3 57.45966 58.93965 58.10993 58.76019  
## WT/BR:AftLow 56.53333 1.62583312 3 54.70000 57.80000 55.90000 57.10000  
## Q75  
## BL/BR:AftHigh 57.77860  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 52.32671  
## BLK:AftLow 48.70000  
## BRN:AftHigh 53.79358  
## BRN:AftLow 48.80000  
## WHT:AftHigh 51.71209  
## WHT:AftLow 46.15000  
## WT/BLK:AftHigh 56.97866  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 58.84992  
## WT/BR:AftLow 57.45000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.38650 a  
## BL/BR:AftHigh 57.76024 ab  
## WT/BLK:AftHigh 56.68972 abc  
## WT/BR:AftLow 56.53333 abc  
## BL/BR:AftLow 55.26667 bcd  
## WT/BLK:AftLow 54.46667 cde  
## BRN:AftHigh 53.71318 def  
## BLK:AftHigh 52.11200 ef  
## WHT:AftHigh 51.35076 fg  
## BRN:AftLow 48.63333 gh  
## BLK:AftLow 48.23333 h  
## WHT:AftLow 45.50000 i  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT37 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 362.32 72.464 200.0348 < 2.2e-16 \*\*\*  
## THIregime 1 102.90 102.898 284.0484 8.368e-15 \*\*\*  
## Colour:THIregime 5 16.99 3.398 9.3789 4.686e-05 \*\*\*  
## Residuals 24 8.69 0.362   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3622565   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.43658 1.033714 6 55.9 58.54893  
## BLK 50.49924 2.282090 6 47.3 53.03029  
## BRN 52.58499 2.224059 6 50.2 54.80711  
## WHT 48.44691 3.201677 6 45.2 51.67870  
## WT/BLK 55.76108 1.559889 6 53.6 57.67995  
## WT/BR 55.61509 1.345050 6 54.2 57.00044  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.074428   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.43658 a  
## WT/BLK 55.76108 b  
## WT/BR 55.61509 b  
## BRN 52.58499 c  
## BLK 50.49924 d  
## WHT 48.44691 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3622565   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.08129 2.611530 18 51.17233 58.54893  
## AftLow 51.70000 4.000441 18 45.20000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4140713   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.08129 a  
## AftLow 51.70000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3622565 24 53.39065 1.127309 1.771918  
##   
## $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 58.27316 0.2860241 3 57.97788 58.54893 58.13527 58.29267  
## BL/BR:AftLow 56.60000 0.7000000 3 55.90000 57.30000 56.25000 56.60000  
## BLK:AftHigh 52.43180 0.6016960 3 51.82695 53.03029 52.13256 52.43817  
## BLK:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## BRN:AftHigh 54.60332 0.2044885 3 54.39814 54.80711 54.50143 54.60473  
## BRN:AftLow 50.56667 0.3214550 3 50.20000 50.80000 50.45000 50.70000  
## WHT:AftHigh 51.36048 0.2771104 3 51.17233 51.67870 51.20137 51.23041  
## WHT:AftLow 45.53333 0.2886751 3 45.20000 45.70000 45.45000 45.70000  
## WT/BLK:AftHigh 56.98882 0.6463290 3 56.39933 57.67995 56.64326 56.88718  
## WT/BLK:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 56.83018 0.1534620 3 56.70250 57.00044 56.74506 56.78762  
## WT/BR:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## Q75  
## BL/BR:AftHigh 58.42080  
## BL/BR:AftLow 56.95000  
## BLK:AftHigh 52.73423  
## BLK:AftLow 49.20000  
## BRN:AftHigh 54.70592  
## BRN:AftLow 50.75000  
## WHT:AftHigh 51.45455  
## WHT:AftLow 45.70000  
## WT/BLK:AftHigh 57.28356  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 56.89403  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.27316 a  
## WT/BLK:AftHigh 56.98882 a  
## WT/BR:AftHigh 56.83018 a  
## BL/BR:AftLow 56.60000 a  
## BRN:AftHigh 54.60332 b  
## WT/BLK:AftLow 54.53333 b  
## WT/BR:AftLow 54.40000 b  
## BLK:AftHigh 52.43180 c  
## WHT:AftHigh 51.36048 cd  
## BRN:AftLow 50.56667 d  
## BLK:AftLow 48.56667 e  
## WHT:AftLow 45.53333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT38 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 386.79 77.359 34.8458 3.012e-10 \*\*\*  
## THIregime 1 105.42 105.422 47.4869 3.980e-07 \*\*\*  
## Colour:THIregime 5 20.47 4.093 1.8438 0.1422   
## Residuals 24 53.28 2.220   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.220027   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.42481 3.284132 6 49.5 58.56563  
## BLK 51.07939 2.354705 6 47.3 53.65856  
## BRN 54.76634 1.714395 6 52.5 56.53604  
## WHT 47.63661 3.628897 6 44.1 51.12621  
## WT/BLK 55.75817 1.359378 6 54.2 57.10498  
## WT/BR 57.23554 1.244056 6 55.7 58.68876  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.659796   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.23554 a  
## WT/BLK 55.75817 a  
## BL/BR 55.42481 a  
## BRN 54.76634 a  
## BLK 51.07939 b  
## WHT 47.63661 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.220027   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.36140 2.773583 18 50.60607 58.68876  
## AftLow 51.93889 4.404295 18 44.10000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.025053   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.36140 a  
## AftLow 51.93889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.220027 24 53.65014 2.777207 4.386464  
##   
## $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 56.84963 2.1871285 3 54.38694 58.56563 55.99162 57.59631  
## BL/BR:AftLow 54.00000 4.0112342 3 49.50000 57.20000 52.40000 55.30000  
## BLK:AftHigh 52.89212 0.8946209 3 51.90909 53.65856 52.50889 53.10870  
## BLK:AftLow 49.26667 1.7897858 3 47.30000 50.80000 48.50000 49.70000  
## BRN:AftHigh 56.26602 0.3968115 3 55.81042 56.53604 56.13101 56.45160  
## BRN:AftLow 53.26667 0.6658328 3 52.50000 53.70000 53.05000 53.60000  
## WHT:AftHigh 50.93989 0.2897466 3 50.60607 51.12621 50.84673 51.08739  
## WHT:AftLow 44.33333 0.3214550 3 44.10000 44.70000 44.15000 44.20000  
## WT/BLK:AftHigh 56.98301 0.1890652 3 56.76522 57.10498 56.92203 57.07884  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 58.23774 0.3906622 3 58.00477 58.68876 58.01223 58.01970  
## WT/BR:AftLow 56.23333 0.8386497 3 55.70000 57.20000 55.75000 55.80000  
## Q75  
## BL/BR:AftHigh 58.08097  
## BL/BR:AftLow 56.25000  
## BLK:AftHigh 53.38363  
## BLK:AftLow 50.25000  
## BRN:AftHigh 56.49382  
## BRN:AftLow 53.65000  
## WHT:AftHigh 51.10680  
## WHT:AftLow 44.45000  
## WT/BLK:AftHigh 57.09191  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.35423  
## WT/BR:AftLow 56.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.23774 a  
## WT/BLK:AftHigh 56.98301 ab  
## BL/BR:AftHigh 56.84963 ab  
## BRN:AftHigh 56.26602 ab  
## WT/BR:AftLow 56.23333 ab  
## WT/BLK:AftLow 54.53333 abc  
## BL/BR:AftLow 54.00000 abc  
## BRN:AftLow 53.26667 bcd  
## BLK:AftHigh 52.89212 bcd  
## WHT:AftHigh 50.93989 cd  
## BLK:AftLow 49.26667 d  
## WHT:AftLow 44.33333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT39 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 188.234 37.647 25.5949 6.889e-09 \*\*\*  
## THIregime 1 90.571 90.571 61.5765 4.434e-08 \*\*\*  
## Colour:THIregime 5 7.652 1.530 1.0405 0.4169   
## Residuals 24 35.301 1.471   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470875   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.58999 2.7702706 6 50.3 57.17685  
## BLK 51.72901 2.7785312 6 47.3 54.99031  
## BRN 54.64127 1.8266192 6 51.9 56.51880  
## WHT 52.77414 2.2189036 6 50.2 55.25810  
## WT/BLK 56.47687 1.4446832 6 54.3 58.08939  
## WT/BR 58.50561 0.9813414 6 57.3 59.60273  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.164996   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.50561 a  
## WT/BLK 56.47687 ab  
## BRN 54.64127 bc  
## BL/BR 53.58999 cd  
## WHT 52.77414 cd  
## BLK 51.72901 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470875   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.20563 2.063221 18 52.35214 59.60273  
## AftLow 53.03333 3.056526 18 47.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8343627   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.20563 a  
## AftLow 53.03333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.470875 24 54.61948 2.220446 3.570453  
##   
## $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 55.77998 1.2197690 3 54.92532 57.17685 55.08155 55.23777  
## BL/BR:AftLow 51.40000 1.8193405 3 50.30000 53.50000 50.35000 50.40000  
## BLK:AftHigh 53.62469 1.3215477 3 52.35214 54.99031 52.94187 53.53161  
## BLK:AftLow 49.83333 2.6025628 3 47.30000 52.50000 48.50000 49.70000  
## BRN:AftHigh 56.14921 0.6134858 3 55.44105 56.51880 55.96442 56.48779  
## BRN:AftLow 53.13333 1.0692677 3 51.90000 53.80000 52.80000 53.70000  
## WHT:AftHigh 54.68162 0.5001222 3 54.36387 55.25810 54.39337 54.42287  
## WHT:AftLow 50.86667 1.0692677 3 50.20000 52.10000 50.25000 50.30000  
## WT/BLK:AftHigh 57.62042 0.6567975 3 56.86976 58.08939 57.38593 57.90209  
## WT/BLK:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 59.37789 0.2040462 3 59.20449 59.60273 59.26547 59.32645  
## WT/BR:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## Q75  
## BL/BR:AftHigh 56.20731  
## BL/BR:AftLow 51.95000  
## BLK:AftHigh 54.26096  
## BLK:AftLow 51.10000  
## BRN:AftHigh 56.50330  
## BRN:AftLow 53.75000  
## WHT:AftHigh 54.84049  
## WHT:AftLow 51.20000  
## WT/BLK:AftHigh 57.99574  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 59.46459  
## WT/BR:AftLow 57.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 59.37789 a  
## WT/BR:AftLow 57.63333 ab  
## WT/BLK:AftHigh 57.62042 ab  
## BRN:AftHigh 56.14921 abc  
## BL/BR:AftHigh 55.77998 bc  
## WT/BLK:AftLow 55.33333 bc  
## WHT:AftHigh 54.68162 bcd  
## BLK:AftHigh 53.62469 cde  
## BRN:AftLow 53.13333 cdef  
## BL/BR:AftLow 51.40000 def  
## WHT:AftLow 50.86667 ef  
## BLK:AftLow 49.83333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT40 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.006 46.601 43.9145 2.633e-11 \*\*\*  
## THIregime 1 103.696 103.696 97.7176 6.156e-10 \*\*\*  
## Colour:THIregime 5 9.597 1.919 1.8087 0.1492   
## Residuals 24 25.468 1.061   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.06118   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.98210 2.021325 6 50.4 55.13323  
## BLK 51.09506 2.292708 6 47.3 53.74720  
## BRN 52.47410 1.912378 6 50.2 54.62215  
## WHT 48.02615 3.090404 6 44.2 51.43368  
## WT/BLK 54.54794 1.947574 6 51.6 56.71295  
## WT/BR 56.02444 1.187049 6 54.6 57.40117  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.838923   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.02444 a  
## WT/BLK 54.54794 ab  
## BL/BR 52.98210 bc  
## BRN 52.47410 cd  
## BLK 51.09506 d  
## WHT 48.02615 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.06118   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.22215 2.253297 18 49.96141 57.40117  
## AftLow 50.82778 3.269791 18 44.20000 55.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7086985   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.22215 a  
## AftLow 50.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.06118 24 52.52496 1.961231 3.032703  
##   
## $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 54.76420 0.3416888 3 54.45881 55.13323 54.57968 54.70056  
## BL/BR:AftLow 51.20000 0.7549834 3 50.40000 51.90000 50.85000 51.30000  
## BLK:AftHigh 52.55679 1.1991655 3 51.34905 53.74720 51.96158 52.57412  
## BLK:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## BRN:AftHigh 54.11486 0.4509017 3 53.75970 54.62215 53.86122 53.96274  
## BRN:AftLow 50.83333 0.9291573 3 50.20000 51.90000 50.30000 50.40000  
## WHT:AftHigh 50.75229 0.7422180 3 49.96141 51.43368 50.41160 50.86178  
## WHT:AftLow 45.30000 1.0148892 3 44.20000 46.20000 44.85000 45.50000  
## WT/BLK:AftHigh 56.09587 0.9078996 3 55.05338 56.71295 55.78734 56.52129  
## WT/BLK:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 57.04889 0.3070137 3 56.83840 57.40117 56.87275 56.90710  
## WT/BR:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## Q75  
## BL/BR:AftHigh 54.91689  
## BL/BR:AftLow 51.60000  
## BLK:AftHigh 53.16066  
## BLK:AftLow 50.80000  
## BRN:AftHigh 54.29245  
## BRN:AftLow 51.15000  
## WHT:AftHigh 51.14773  
## WHT:AftLow 45.85000  
## WT/BLK:AftHigh 56.61712  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 57.15413  
## WT/BR:AftLow 55.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.04889 a  
## WT/BLK:AftHigh 56.09587 a  
## WT/BR:AftLow 55.00000 ab  
## BL/BR:AftHigh 54.76420 ab  
## BRN:AftHigh 54.11486 abc  
## WT/BLK:AftLow 53.00000 bcd  
## BLK:AftHigh 52.55679 bcde  
## BL/BR:AftLow 51.20000 cde  
## BRN:AftLow 50.83333 de  
## WHT:AftHigh 50.75229 de  
## BLK:AftLow 49.63333 e  
## WHT:AftLow 45.30000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT41 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 408.05 81.610 95.7594 4.742e-15 \*\*\*  
## THIregime 1 112.42 112.420 131.9105 3.081e-11 \*\*\*  
## Colour:THIregime 5 20.59 4.118 4.8314 0.003383 \*\*   
## Residuals 24 20.45 0.852   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8522415   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.56682 2.134930 6 52.2 57.08537  
## BLK 51.37937 2.515228 6 47.3 54.29035  
## BRN 54.89026 1.608370 6 53.1 56.43293  
## WHT 47.69874 3.622017 6 44.1 51.32914  
## WT/BLK 55.97590 1.622929 6 53.8 57.84547  
## WT/BR 58.09172 1.211687 6 56.1 59.37872  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.647975   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.09172 a  
## WT/BLK 55.97590 b  
## BRN 54.89026 b  
## BL/BR 54.56682 b  
## BLK 51.37937 c  
## WHT 47.69874 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8522415   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.53427 2.803280 18 50.82489 59.37872  
## AftLow 52.00000 4.307995 18 44.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6351092   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.53427 a  
## AftLow 52.00000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8522415 24 53.76714 1.716977 2.717796  
##   
## $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 56.43364 0.5742267 3 56.00208 57.08537 56.10778 56.21348  
## BL/BR:AftLow 52.70000 0.7810250 3 52.20000 53.60000 52.25000 52.30000  
## BLK:AftHigh 53.12541 1.1732947 3 51.94393 54.29035 52.54295 53.14196  
## BLK:AftLow 49.63333 2.3007245 3 47.30000 51.90000 48.50000 49.70000  
## BRN:AftHigh 56.34718 0.1261649 3 56.20231 56.43293 56.30431 56.40630  
## BRN:AftLow 53.43333 0.2886751 3 53.10000 53.60000 53.35000 53.60000  
## WHT:AftHigh 50.99747 0.2873136 3 50.82489 51.32914 50.83164 50.83838  
## WHT:AftLow 44.40000 0.2645751 3 44.10000 44.60000 44.30000 44.50000  
## WT/BLK:AftHigh 57.35181 0.5151928 3 56.81749 57.84547 57.10498 57.39246  
## WT/BLK:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BR:AftHigh 58.95011 0.6976038 3 58.14515 59.37872 58.73580 59.32645  
## WT/BR:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## Q75  
## BL/BR:AftHigh 56.64943  
## BL/BR:AftLow 52.95000  
## BLK:AftHigh 53.71615  
## BLK:AftLow 50.80000  
## BRN:AftHigh 56.41962  
## BRN:AftLow 53.60000  
## WHT:AftHigh 51.08376  
## WHT:AftLow 44.55000  
## WT/BLK:AftHigh 57.61896  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 59.35259  
## WT/BR:AftLow 57.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.95011 a  
## WT/BLK:AftHigh 57.35181 a  
## WT/BR:AftLow 57.23333 ab  
## BL/BR:AftHigh 56.43364 ab  
## BRN:AftHigh 56.34718 ab  
## WT/BLK:AftLow 54.60000 bc  
## BRN:AftLow 53.43333 cd  
## BLK:AftHigh 53.12541 cd  
## BL/BR:AftLow 52.70000 cd  
## WHT:AftHigh 50.99747 de  
## BLK:AftLow 49.63333 e  
## WHT:AftLow 44.40000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT42 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 266.568 53.314 43.4402 2.956e-11 \*\*\*  
## THIregime 1 89.227 89.227 72.7027 1.003e-08 \*\*\*  
## Colour:THIregime 5 15.065 3.013 2.4551 0.06229 .   
## Residuals 24 29.455 1.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227289   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.75057 1.384949 6 53.7 57.35979  
## BLK 51.66260 2.779712 6 47.3 54.92213  
## BRN 54.08619 1.526159 6 52.5 55.60724  
## WHT 47.82389 3.287915 6 44.6 51.00322  
## WT/BLK 54.53036 1.496487 6 53.1 55.98117  
## WT/BR 55.22574 1.313615 6 53.7 56.66068  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.977619   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.75057 a  
## WT/BR 55.22574 a  
## WT/BLK 54.53036 a  
## BRN 54.08619 a  
## BLK 51.66260 b  
## WHT 47.82389 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227289   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.75423 2.267401 18 50.46378 57.35979  
## AftLow 51.60556 3.627424 18 44.60000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7621499   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.75423 a  
## AftLow 51.60556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.227289 24 53.17989 2.083176 3.261435  
##   
## $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 56.83448 0.51702898 3 56.32615 57.35979 56.57182 56.81749  
## BL/BR:AftLow 54.66667 1.00166528 3 53.70000 55.70000 54.15000 54.60000  
## BLK:AftHigh 53.12519 1.67015699 3 51.62036 54.92213 52.22672 52.83309  
## BLK:AftLow 50.20000 3.17962262 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 55.47238 0.13536879 3 55.33651 55.60724 55.40496 55.47340  
## BRN:AftLow 52.70000 0.20000000 3 52.50000 52.90000 52.60000 52.70000  
## WHT:AftHigh 50.81444 0.30397723 3 50.46378 51.00322 50.72005 50.97632  
## WHT:AftLow 44.83333 0.32145503 3 44.60000 45.20000 44.65000 44.70000  
## WT/BLK:AftHigh 55.89405 0.07984374 3 55.82436 55.98117 55.85050 55.87663  
## WT/BLK:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BR:AftHigh 56.38481 0.24552891 3 56.19025 56.66068 56.24688 56.30350  
## WT/BR:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 57.08864  
## BL/BR:AftLow 55.15000  
## BLK:AftHigh 53.87761  
## BLK:AftLow 51.65000  
## BRN:AftHigh 55.54032  
## BRN:AftLow 52.80000  
## WHT:AftHigh 50.98977  
## WHT:AftLow 44.95000  
## WT/BLK:AftHigh 55.92890  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 56.48209  
## WT/BR:AftLow 54.25000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.83448 a  
## WT/BR:AftHigh 56.38481 ab  
## WT/BLK:AftHigh 55.89405 abc  
## BRN:AftHigh 55.47238 abc  
## BL/BR:AftLow 54.66667 abc  
## WT/BR:AftLow 54.06667 abcd  
## WT/BLK:AftLow 53.16667 bcde  
## BLK:AftHigh 53.12519 bcde  
## BRN:AftLow 52.70000 cde  
## WHT:AftHigh 50.81444 de  
## BLK:AftLow 50.20000 e  
## WHT:AftLow 44.83333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT43 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 406.88 81.377 33.6573 4.314e-10 \*\*\*  
## THIregime 1 96.92 96.916 40.0844 1.518e-06 \*\*\*  
## Colour:THIregime 5 12.88 2.576 1.0654 0.4039   
## Residuals 24 58.03 2.418   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.417802   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.24336 1.767478 6 54.4 59.32645  
## BLK 50.13936 2.281306 6 47.3 52.82596  
## BRN 49.35478 2.995112 6 46.3 52.46702  
## WHT 50.91651 3.560589 6 44.5 54.54955  
## WT/BLK 56.30718 1.422171 6 54.6 58.01970  
## WT/BR 56.78340 1.251039 6 55.4 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.775745   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.24336 a  
## WT/BR 56.78340 a  
## WT/BLK 56.30718 a  
## WHT 50.91651 b  
## BLK 50.13936 b  
## BRN 49.35478 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.417802   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.09820 3.019791 18 50.46342 59.32645  
## AftLow 51.81667 4.357313 18 44.50000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.069738   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.09820 a  
## AftLow 51.81667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.417802 24 53.45743 2.908723 4.577684  
##   
## $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 58.28671 1.0555405 3 57.21605 59.32645 57.76684 58.31764  
## BL/BR:AftLow 56.20000 1.8520259 3 54.40000 58.10000 55.25000 56.10000  
## BLK:AftHigh 52.04539 0.6773159 3 51.61289 52.82596 51.65510 51.69730  
## BLK:AftLow 48.23333 1.2858201 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 52.07623 0.3384627 3 51.87623 52.46702 51.88084 51.88544  
## BRN:AftLow 46.63333 0.3055050 3 46.30000 46.90000 46.50000 46.70000  
## WHT:AftHigh 52.79970 2.1052416 3 50.46342 54.54955 51.92477 53.38612  
## WHT:AftLow 49.03333 4.0771722 3 44.50000 52.40000 47.35000 50.20000  
## WT/BLK:AftHigh 57.48103 0.4683348 3 57.17031 58.01970 57.21169 57.25307  
## WT/BLK:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WT/BR:AftHigh 57.90014 0.1676370 3 57.78822 58.09288 57.80378 57.81933  
## WT/BR:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## Q75  
## BL/BR:AftHigh 58.82204  
## BL/BR:AftLow 57.10000  
## BLK:AftHigh 52.26163  
## BLK:AftLow 48.70000  
## BRN:AftHigh 52.17623  
## BRN:AftLow 46.80000  
## WHT:AftHigh 53.96784  
## WHT:AftLow 51.30000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.95610  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.28671 a  
## WT/BR:AftHigh 57.90014 a  
## WT/BLK:AftHigh 57.48103 a  
## BL/BR:AftLow 56.20000 ab  
## WT/BR:AftLow 55.66667 ab  
## WT/BLK:AftLow 55.13333 ab  
## WHT:AftHigh 52.79970 bc  
## BRN:AftHigh 52.07623 bc  
## BLK:AftHigh 52.04539 bc  
## WHT:AftLow 49.03333 cd  
## BLK:AftLow 48.23333 cd  
## BRN:AftLow 46.63333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT44 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 236.998 47.400 18.4041 1.62e-07 \*\*\*  
## THIregime 1 83.956 83.956 32.5980 6.99e-06 \*\*\*  
## Colour:THIregime 5 11.132 2.226 0.8645 0.5191   
## Residuals 24 61.812 2.575   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.575492   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.02321 2.852015 6 49.5 56.53001  
## BLK 51.47702 2.671896 6 47.3 54.56761  
## BRN 51.21222 2.107046 6 49.1 53.40386  
## WHT 48.93901 2.614936 6 45.9 51.75057  
## WT/BLK 54.12624 1.435432 6 52.5 55.81129  
## WT/BR 57.11839 1.664029 6 54.2 58.61707  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.864833   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11839 a  
## WT/BLK 54.12624 b  
## BL/BR 53.02321 bc  
## BLK 51.47702 bcd  
## BRN 51.21222 cd  
## WHT 48.93901 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.575492   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.17647 2.334784 18 50.75127 58.61707  
## AftLow 51.12222 3.575004 18 45.90000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.104071   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.17647 a  
## AftLow 51.12222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.575492 24 52.64935 3.048156 4.724606  
##   
## $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 54.81308 1.4901985 3 53.85552 56.53001 53.95462 54.05371  
## BL/BR:AftLow 51.23333 2.9160476 3 49.50000 54.60000 49.55000 49.60000  
## BLK:AftHigh 52.75404 1.6867800 3 51.23207 54.56761 51.84726 52.46245  
## BLK:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 53.12444 0.2436265 3 52.95648 53.40386 52.98473 53.01298  
## BRN:AftLow 49.30000 0.2645751 3 49.10000 49.60000 49.15000 49.20000  
## WHT:AftHigh 51.27802 0.5018502 3 50.75127 51.75057 51.04174 51.33221  
## WHT:AftLow 46.60000 0.6557439 3 45.90000 47.20000 46.30000 46.70000  
## WT/BLK:AftHigh 55.35248 0.4002234 3 55.07516 55.81129 55.12307 55.17099  
## WT/BLK:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## WT/BR:AftHigh 57.73678 1.3436024 3 56.19025 58.61707 57.29663 58.40301  
## WT/BR:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## Q75  
## BL/BR:AftHigh 55.29186  
## BL/BR:AftLow 52.10000  
## BLK:AftHigh 53.51503  
## BLK:AftLow 51.65000  
## BRN:AftHigh 53.20842  
## BRN:AftLow 49.40000  
## WHT:AftHigh 51.54139  
## WHT:AftLow 46.95000  
## WT/BLK:AftHigh 55.49114  
## WT/BLK:AftLow 53.10000  
## WT/BR:AftHigh 58.51004  
## WT/BR:AftLow 57.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.73678 a  
## WT/BR:AftLow 56.50000 ab  
## WT/BLK:AftHigh 55.35248 abc  
## BL/BR:AftHigh 54.81308 abcd  
## BRN:AftHigh 53.12444 abcde  
## WT/BLK:AftLow 52.90000 bcde  
## BLK:AftHigh 52.75404 bcde  
## WHT:AftHigh 51.27802 cdef  
## BL/BR:AftLow 51.23333 cdef  
## BLK:AftLow 50.20000 def  
## BRN:AftLow 49.30000 ef  
## WHT:AftLow 46.60000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT45 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 167.427 33.485 20.7910 5.171e-08 \*\*\*  
## THIregime 1 91.137 91.137 56.5869 9.218e-08 \*\*\*  
## Colour:THIregime 5 6.957 1.391 0.8639 0.5194   
## Residuals 24 38.654 1.611   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.610575   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.81560 2.335329 6 49.3 54.48494  
## BLK 51.17750 2.355745 6 47.3 53.91537  
## BRN 52.10131 2.620707 6 48.6 55.46249  
## WHT 49.99674 2.499250 6 47.1 52.89417  
## WT/BLK 54.62159 1.410959 6 52.6 56.13798  
## WT/BR 56.36718 1.114087 6 54.7 57.47958  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.265477   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36718 a  
## WT/BLK 54.62159 a  
## BRN 52.10131 b  
## BL/BR 51.81560 b  
## BLK 51.17750 b  
## WHT 49.99674 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.610575   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.27109 1.977227 18 51.41377 57.47958  
## AftLow 51.08889 2.936362 18 47.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.873087   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.27109 a  
## AftLow 51.08889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.610575 24 52.67999 2.409044 3.736164  
##   
## $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 53.89787 0.5324799 3 53.44608 54.48494 53.60434 53.76260  
## BL/BR:AftLow 49.73333 0.5859465 3 49.30000 50.40000 49.40000 49.50000  
## BLK:AftHigh 52.65501 1.2509101 3 51.41377 53.91537 52.02483 52.63589  
## BLK:AftLow 49.70000 2.4000000 3 47.30000 52.10000 48.50000 49.70000  
## BRN:AftHigh 53.83596 1.4141958 3 52.89724 55.46249 53.02269 53.14814  
## BRN:AftLow 50.36667 2.4785749 3 48.60000 53.20000 48.95000 49.30000  
## WHT:AftHigh 52.12681 0.6787539 3 51.60501 52.89417 51.74313 51.88124  
## WHT:AftLow 47.86667 1.2423097 3 47.10000 49.30000 47.15000 47.20000  
## WT/BLK:AftHigh 55.80984 0.4667318 3 55.27553 56.13798 55.64577 56.01602  
## WT/BLK:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WT/BR:AftHigh 57.30103 0.2709705 3 56.98923 57.47958 57.21176 57.43428  
## WT/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## Q75  
## BL/BR:AftHigh 54.12377  
## BL/BR:AftLow 49.95000  
## BLK:AftHigh 53.27563  
## BLK:AftLow 50.90000  
## BRN:AftHigh 54.30531  
## BRN:AftLow 51.25000  
## WHT:AftHigh 52.38770  
## WHT:AftLow 48.25000  
## WT/BLK:AftHigh 56.07700  
## WT/BLK:AftLow 53.85000  
## WT/BR:AftHigh 57.45693  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.30103 a  
## WT/BLK:AftHigh 55.80984 ab  
## WT/BR:AftLow 55.43333 ab  
## BL/BR:AftHigh 53.89787 abc  
## BRN:AftHigh 53.83596 abc  
## WT/BLK:AftLow 53.43333 bcd  
## BLK:AftHigh 52.65501 bcd  
## WHT:AftHigh 52.12681 bcd  
## BRN:AftLow 50.36667 cde  
## BL/BR:AftLow 49.73333 de  
## BLK:AftLow 49.70000 de  
## WHT:AftLow 47.86667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT46 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 102.996 20.599 40.7543 5.826e-11 \*\*\*  
## THIregime 1 64.430 64.430 127.4709 4.368e-11 \*\*\*  
## Colour:THIregime 5 6.239 1.248 2.4686 0.06118 .   
## Residuals 24 12.131 0.505   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5054472   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.13131 1.2168016 6 53.5 56.33544  
## BLK 50.51708 2.3001451 6 47.3 53.06593  
## BRN 52.47381 1.9257035 6 50.2 54.60205  
## WHT 52.77480 1.7980066 6 50.2 54.76589  
## WT/BLK 53.26948 1.4619249 6 51.3 55.22326  
## WT/BR 55.56034 0.8427302 6 54.6 56.39933  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.269133   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.56034 a  
## BL/BR 55.13131 a  
## WT/BLK 53.26948 b  
## WHT 52.77480 b  
## BRN 52.47381 b  
## BLK 50.51708 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5054472   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.62561 1.422099 18 51.86429 56.39933  
## AftLow 51.95000 2.262027 18 47.30000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4891082   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.62561 a  
## AftLow 51.95000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5054472 24 53.2878 1.334167 2.09302  
##   
## $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 56.19596 0.2403361 3 55.91845 56.33544 56.12622 56.33399  
## BL/BR:AftLow 54.06667 0.4932883 3 53.50000 54.40000 53.90000 54.30000  
## BLK:AftHigh 52.46749 0.6008364 3 51.86429 53.06593 52.16827 52.47226  
## BLK:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## BRN:AftHigh 54.18094 0.4056288 3 53.79280 54.60205 53.97039 54.14799  
## BRN:AftLow 50.76667 0.6027714 3 50.20000 51.40000 50.45000 50.70000  
## WHT:AftHigh 54.28294 0.5615387 3 53.66677 54.76589 54.04146 54.41614  
## WHT:AftLow 51.26667 0.9712535 3 50.20000 52.10000 50.85000 51.50000  
## WT/BLK:AftHigh 54.30563 0.8117447 3 53.68129 55.22326 53.84681 54.01233  
## WT/BLK:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## WT/BR:AftHigh 56.32068 0.1055626 3 56.20070 56.39933 56.28135 56.36199  
## WT/BR:AftLow 54.80000 0.1732051 3 54.60000 54.90000 54.75000 54.90000  
## Q75  
## BL/BR:AftHigh 56.33472  
## BL/BR:AftLow 54.35000  
## BLK:AftHigh 52.76910  
## BLK:AftLow 49.20000  
## BRN:AftHigh 54.37502  
## BRN:AftLow 51.05000  
## WHT:AftHigh 54.59102  
## WHT:AftLow 51.80000  
## WT/BLK:AftHigh 54.61779  
## WT/BLK:AftLow 52.70000  
## WT/BR:AftHigh 56.38066  
## WT/BR:AftLow 54.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.32068 a  
## BL/BR:AftHigh 56.19596 ab  
## WT/BR:AftLow 54.80000 abc  
## WT/BLK:AftHigh 54.30563 abcd  
## WHT:AftHigh 54.28294 abcd  
## BRN:AftHigh 54.18094 bcd  
## BL/BR:AftLow 54.06667 cd  
## BLK:AftHigh 52.46749 de  
## WT/BLK:AftLow 52.23333 de  
## WHT:AftLow 51.26667 e  
## BRN:AftLow 50.76667 e  
## BLK:AftLow 48.56667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT47 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 286.378 57.276 21.5026 3.752e-08 \*\*\*  
## THIregime 1 97.630 97.630 36.6525 2.983e-06 \*\*\*  
## Colour:THIregime 5 13.224 2.645 0.9929 0.4428   
## Residuals 24 63.928 2.664   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.663668   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.22724 1.627280 6 54.4 58.08504  
## BLK 51.93620 2.957120 6 47.3 55.44483  
## BRN 55.22102 1.634324 6 53.6 56.83759  
## WHT 49.49085 4.112240 6 44.3 54.48276  
## WT/BLK 55.74674 1.630661 6 53.6 57.54927  
## WT/BR 57.82541 1.150343 6 56.3 59.12782  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.913461   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.82541 a  
## BL/BR 56.22724 a  
## WT/BLK 55.74674 a  
## BRN 55.22102 a  
## BLK 51.93620 b  
## WHT 49.49085 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.663668   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05471 2.485107 18 51.26457 59.12782  
## AftLow 52.76111 3.899795 18 44.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.122812   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05471 a  
## AftLow 52.76111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.663668 24 54.40791 2.999701 4.804802  
##   
## $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 57.65449 0.3728673 3 57.43892 58.08504 57.43921 57.43950  
## BL/BR:AftLow 54.80000 0.6082763 3 54.40000 55.50000 54.45000 54.50000  
## BLK:AftHigh 53.67241 1.6456585 3 52.19284 55.44483 52.78619 53.37955  
## BLK:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 56.70870 0.1208456 3 56.59796 56.83759 56.64425 56.69055  
## BRN:AftLow 53.73333 0.1527525 3 53.60000 53.90000 53.65000 53.70000  
## WHT:AftHigh 52.38169 1.8207983 3 51.26457 54.48276 51.33116 51.39774  
## WHT:AftLow 46.60000 3.7269290 3 44.30000 50.90000 44.45000 44.60000  
## WT/BLK:AftHigh 57.16015 0.4910578 3 56.60841 57.54927 56.96559 57.32277  
## WT/BLK:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## WT/BR:AftHigh 58.75082 0.3302715 3 58.51253 59.12782 58.56231 58.61209  
## WT/BR:AftLow 56.90000 0.7937254 3 56.30000 57.80000 56.45000 56.60000  
## Q75  
## BL/BR:AftHigh 57.76227  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 54.41219  
## BLK:AftLow 51.65000  
## BRN:AftHigh 56.76407  
## BRN:AftLow 53.80000  
## WHT:AftHigh 52.94025  
## WHT:AftLow 47.75000  
## WT/BLK:AftHigh 57.43602  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.86996  
## WT/BR:AftLow 57.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.75082 a  
## BL/BR:AftHigh 57.65449 ab  
## WT/BLK:AftHigh 57.16015 abc  
## WT/BR:AftLow 56.90000 abc  
## BRN:AftHigh 56.70870 abc  
## BL/BR:AftLow 54.80000 abcd  
## WT/BLK:AftLow 54.33333 abcd  
## BRN:AftLow 53.73333 bcd  
## BLK:AftHigh 53.67241 bcd  
## WHT:AftHigh 52.38169 cd  
## BLK:AftLow 50.20000 de  
## WHT:AftLow 46.60000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT48 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 338.72 67.743 37.6379 1.347e-10 \*\*\*  
## THIregime 1 100.71 100.713 55.9557 1.014e-07 \*\*\*  
## Colour:THIregime 5 17.12 3.424 1.9023 0.1313   
## Residuals 24 43.20 1.800   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.79987   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.08659 1.419917 6 55.3 58.58814  
## BLK 50.97171 2.444034 6 47.3 53.40806  
## BRN 55.31789 1.664844 6 53.7 56.93409  
## WHT 49.56843 4.027672 6 44.7 54.75936  
## WT/BLK 55.72856 1.548134 6 53.7 57.32277  
## WT/BR 57.79574 1.681015 6 54.8 59.38619  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.394913   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.79574 a  
## BL/BR 57.08659 ab  
## WT/BLK 55.72856 ab  
## BRN 55.31789 b  
## BLK 50.97171 c  
## WHT 49.56843 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.79987   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.08409 2.618829 18 51.31462 59.38619  
## AftLow 52.73889 4.076062 18 44.70000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9229702   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.08409 a  
## AftLow 52.73889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.79987 24 54.41149 2.465642 3.949627  
##   
## $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 58.33985 0.27402831 3 58.04584 58.58814 58.21571 58.38559  
## BL/BR:AftLow 55.83333 0.50332230 3 55.30000 56.30000 55.60000 55.90000  
## BLK:AftHigh 53.01009 0.68190190 3 52.22271 53.40806 52.81110 53.39949  
## BLK:AftLow 48.93333 1.41539158 3 47.30000 49.80000 48.50000 49.70000  
## BRN:AftHigh 56.83578 0.08538542 3 56.78015 56.93409 56.78663 56.79310  
## BRN:AftLow 53.80000 0.10000000 3 53.70000 53.90000 53.75000 53.80000  
## WHT:AftHigh 52.57020 1.90269348 3 51.31462 54.75936 51.47562 51.63661  
## WHT:AftLow 46.56667 3.14695620 3 44.70000 50.20000 44.75000 44.80000  
## WT/BLK:AftHigh 57.09046 0.29015648 3 56.76522 57.32277 56.97430 57.18338  
## WT/BLK:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## WT/BR:AftHigh 58.65814 1.18742247 3 57.28792 59.38619 58.29412 59.30032  
## WT/BR:AftLow 56.93333 1.85022521 3 54.80000 58.10000 56.35000 57.90000  
## Q75  
## BL/BR:AftHigh 58.48686  
## BL/BR:AftLow 56.10000  
## BLK:AftHigh 53.40377  
## BLK:AftLow 49.75000  
## BRN:AftHigh 56.86359  
## BRN:AftLow 53.85000  
## WHT:AftHigh 53.19798  
## WHT:AftLow 47.50000  
## WT/BLK:AftHigh 57.25307  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 59.34325  
## WT/BR:AftLow 58.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.65814 a  
## BL/BR:AftHigh 58.33985 a  
## WT/BLK:AftHigh 57.09046 ab  
## WT/BR:AftLow 56.93333 abc  
## BRN:AftHigh 56.83578 abc  
## BL/BR:AftLow 55.83333 abcd  
## WT/BLK:AftLow 54.36667 bcd  
## BRN:AftLow 53.80000 bcd  
## BLK:AftHigh 53.01009 cd  
## WHT:AftHigh 52.57020 de  
## BLK:AftLow 48.93333 ef  
## WHT:AftLow 46.56667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT49 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.150 55.630 12.9980 3.496e-06 \*\*\*  
## THIregime 1 85.072 85.072 19.8771 0.0001647 \*\*\*  
## Colour:THIregime 5 10.854 2.171 0.5072 0.7679269   
## Residuals 24 102.718 4.280   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.279897   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.30986 0.9071804 6 57.1 59.35259  
## BLK 51.86881 2.9044661 6 47.3 55.31075  
## BRN 52.54234 2.3222656 6 50.2 54.93577  
## WHT 50.70896 4.6335218 6 42.1 54.68979  
## WT/BLK 56.23970 1.2827448 6 54.7 57.65381  
## WT/BR 56.45377 1.4006700 6 54.8 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.693056   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.30986 a  
## WT/BR 56.45377 a  
## WT/BLK 56.23970 a  
## BRN 52.54234 b  
## BLK 51.86881 b  
## WHT 50.70896 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.279897   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89115 2.587713 18 49.77084 59.35259  
## AftLow 52.81667 4.043040 18 42.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.423258   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89115 a  
## AftLow 52.81667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.279897 24 54.35391 3.80615 6.090488  
##   
## $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 59.08640 0.3242011 3 58.72535 59.35259 58.95330 59.18126  
## BL/BR:AftLow 57.53333 0.3785939 3 57.10000 57.80000 57.40000 57.70000  
## BLK:AftHigh 53.57096 1.6200583 3 52.10572 55.31075 52.70106 53.29639  
## BLK:AftLow 50.16667 3.1262331 3 47.30000 53.50000 48.50000 49.70000  
## BRN:AftHigh 54.65135 0.2741933 3 54.38868 54.93577 54.50915 54.62962  
## BRN:AftLow 50.43333 0.2516611 3 50.20000 50.70000 50.30000 50.40000  
## WHT:AftHigh 53.01792 2.8124645 3 49.77084 54.68979 52.18198 54.59311  
## WHT:AftLow 48.40000 5.4561891 3 42.10000 51.60000 46.80000 51.50000  
## WT/BLK:AftHigh 57.37939 0.2384595 3 57.22258 57.65381 57.24218 57.26179  
## WT/BLK:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 57.64087 0.3920935 3 57.39246 58.09288 57.41486 57.43726  
## WT/BR:AftLow 55.26667 0.7234178 3 54.80000 56.10000 54.85000 54.90000  
## Q75  
## BL/BR:AftHigh 59.26692  
## BL/BR:AftLow 57.75000  
## BLK:AftHigh 54.30357  
## BLK:AftLow 51.60000  
## BRN:AftHigh 54.78269  
## BRN:AftLow 50.55000  
## WHT:AftHigh 54.64145  
## WHT:AftLow 51.55000  
## WT/BLK:AftHigh 57.45780  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.76507  
## WT/BR:AftLow 55.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.08640 a  
## WT/BR:AftHigh 57.64087 a  
## BL/BR:AftLow 57.53333 a  
## WT/BLK:AftHigh 57.37939 a  
## WT/BR:AftLow 55.26667 ab  
## WT/BLK:AftLow 55.10000 ab  
## BRN:AftHigh 54.65135 ab  
## BLK:AftHigh 53.57096 abc  
## WHT:AftHigh 53.01792 abc  
## BRN:AftLow 50.43333 bc  
## BLK:AftLow 50.16667 bc  
## WHT:AftLow 48.40000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT50 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 404.51 80.901 118.1982 4.283e-16 \*\*\*  
## THIregime 1 114.05 114.054 166.6351 2.718e-12 \*\*\*  
## Colour:THIregime 5 16.30 3.260 4.7632 0.003651 \*\*   
## Residuals 24 16.43 0.684   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6844555   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.55350 2.511465 6 50.2 55.06645  
## BLK 51.10861 2.312921 6 47.3 53.75174  
## BRN 54.41148 1.393914 6 52.8 55.88708  
## WHT 47.60473 3.343327 6 44.3 51.06452  
## WT/BLK 57.03983 1.428703 6 55.3 58.50755  
## WT/BR 57.09481 1.592912 6 54.6 58.93816  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.476868   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.09481 a  
## WT/BLK 57.03983 a  
## BRN 54.41148 b  
## BL/BR 52.55350 c  
## BLK 51.10861 c  
## WHT 47.60473 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6844555   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.08210 2.908645 18 50.26341 58.93816  
## AftLow 51.52222 4.154453 18 44.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5691669   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.08210 a  
## AftLow 51.52222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6844555 24 53.30216 1.552129 2.435612  
##   
## $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 54.84033 0.2579113 3 54.55943 55.06645 54.72727 54.89512  
## BL/BR:AftLow 50.26667 0.1154701 3 50.20000 50.40000 50.20000 50.20000  
## BLK:AftHigh 52.71723 1.0821746 3 51.59298 53.75174 52.19997 52.80696  
## BLK:AftLow 49.50000 2.1071308 3 47.30000 51.50000 48.50000 49.70000  
## BRN:AftHigh 55.65629 0.2132646 3 55.46651 55.88708 55.54090 55.61528  
## BRN:AftLow 53.16667 0.4041452 3 52.80000 53.60000 52.95000 53.10000  
## WHT:AftHigh 50.64279 0.4022312 3 50.26341 51.06452 50.43192 50.60043  
## WHT:AftLow 44.56667 0.3055050 3 44.30000 44.90000 44.40000 44.50000  
## WT/BLK:AftHigh 58.31299 0.2584787 3 58.01970 58.50755 58.21571 58.41173  
## WT/BLK:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## WT/BR:AftHigh 58.32295 0.6746081 3 57.60154 58.93816 58.01534 58.42915  
## WT/BR:AftLow 55.86667 1.1676187 3 54.60000 56.90000 55.35000 56.10000  
## Q75  
## BL/BR:AftHigh 54.98078  
## BL/BR:AftLow 50.30000  
## BLK:AftHigh 53.27935  
## BLK:AftLow 50.60000  
## BRN:AftHigh 55.75118  
## BRN:AftLow 53.35000  
## WHT:AftHigh 50.83248  
## WHT:AftLow 44.70000  
## WT/BLK:AftHigh 58.45964  
## WT/BLK:AftLow 56.00000  
## WT/BR:AftHigh 58.68365  
## WT/BR:AftLow 56.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.32295 a  
## WT/BLK:AftHigh 58.31299 a  
## WT/BR:AftLow 55.86667 b  
## WT/BLK:AftLow 55.76667 b  
## BRN:AftHigh 55.65629 b  
## BL/BR:AftHigh 54.84033 bc  
## BRN:AftLow 53.16667 c  
## BLK:AftHigh 52.71723 cd  
## WHT:AftHigh 50.64279 de  
## BL/BR:AftLow 50.26667 e  
## BLK:AftLow 49.50000 e  
## WHT:AftLow 44.56667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT51 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 345.14 69.029 43.0680 3.240e-11 \*\*\*  
## THIregime 1 99.30 99.300 61.9548 4.202e-08 \*\*\*  
## Colour:THIregime 5 13.34 2.668 1.6648 0.1815   
## Residuals 24 38.47 1.603   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.602789   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.41309 2.673782 6 52.1 58.81028  
## BLK 49.86038 2.432791 6 46.7 52.78320  
## BRN 54.49769 1.489110 6 52.7 56.23850  
## WHT 48.30765 3.155801 6 45.3 51.49248  
## WT/BLK 55.35644 1.860727 6 52.7 57.64074  
## WT/BR 56.56305 1.231035 6 54.9 57.87036  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.259994   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.56305 a  
## BL/BR 55.41309 a  
## WT/BLK 55.35644 a  
## BRN 54.49769 a  
## BLK 49.86038 b  
## WHT 48.30765 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.602789   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.99388 2.714419 18 50.89646 58.81028  
## AftLow 51.67222 3.997765 18 45.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8709741   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.99388 a  
## AftLow 51.67222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.602789 24 53.33305 2.373787 3.727122  
##   
## $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 56.89285 1.6674541 3 55.78254 58.81028 55.93413 56.08571  
## BL/BR:AftLow 53.93333 2.9194748 3 52.10000 57.30000 52.25000 52.40000  
## BLK:AftHigh 51.82075 0.8642711 3 51.11097 52.78320 51.33953 51.56809  
## BLK:AftLow 47.90000 1.5874508 3 46.70000 49.70000 47.00000 47.30000  
## BRN:AftHigh 55.76204 0.4177684 3 55.45847 56.23850 55.52381 55.58915  
## BRN:AftLow 53.23333 0.7571878 3 52.70000 54.10000 52.80000 52.90000  
## WHT:AftHigh 51.18197 0.2987977 3 50.89646 51.49248 51.02671 51.15696  
## WHT:AftLow 45.43333 0.1527525 3 45.30000 45.60000 45.35000 45.40000  
## WT/BLK:AftHigh 56.67956 0.9276630 3 55.78951 57.64074 56.19896 56.60841  
## WT/BLK:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## WT/BR:AftHigh 57.62610 0.3583282 3 57.21474 57.87036 57.50397 57.79320  
## WT/BR:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## Q75  
## BL/BR:AftHigh 57.44800  
## BL/BR:AftLow 54.85000  
## BLK:AftHigh 52.17564  
## BLK:AftLow 48.50000  
## BRN:AftHigh 55.91382  
## BRN:AftLow 53.50000  
## WHT:AftHigh 51.32472  
## WHT:AftLow 45.50000  
## WT/BLK:AftHigh 57.12458  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 57.83178  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.62610 a  
## BL/BR:AftHigh 56.89285 ab  
## WT/BLK:AftHigh 56.67956 ab  
## BRN:AftHigh 55.76204 ab  
## WT/BR:AftLow 55.50000 abc  
## WT/BLK:AftLow 54.03333 abcd  
## BL/BR:AftLow 53.93333 abcd  
## BRN:AftLow 53.23333 bcd  
## BLK:AftHigh 51.82075 cd  
## WHT:AftHigh 51.18197 de  
## BLK:AftLow 47.90000 ef  
## WHT:AftLow 45.43333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT52 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.275 62.855 117.1360 4.750e-16 \*\*\*  
## THIregime 1 94.934 94.934 176.9178 1.442e-12 \*\*\*  
## Colour:THIregime 5 8.734 1.747 3.2553 0.02201 \*   
## Residuals 24 12.878 0.537   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.536599   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.76983 2.097827 6 51.3 56.31221  
## BLK 50.10982 1.865439 6 47.3 52.20110  
## BRN 49.18124 2.638845 6 46.3 51.96844  
## WHT 49.26022 2.260312 6 47.1 51.49248  
## WT/BLK 55.33300 1.378789 6 53.2 56.92203  
## WT/BR 56.45596 1.206207 6 54.7 57.65381  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.307658   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.45596 a  
## WT/BLK 55.33300 a  
## BL/BR 53.76983 b  
## BLK 50.10982 c  
## WHT 49.26022 c  
## BRN 49.18124 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.536599   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.97558 2.655199 18 50.95827 57.65381  
## AftLow 50.72778 3.564829 18 46.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5039553   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.97558 a  
## AftLow 50.72778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.536599 24 52.35168 1.399247 2.156554  
##   
## $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 55.47299 0.7325229 3 54.96190 56.31221 55.05338 55.14485  
## BL/BR:AftLow 52.06667 1.3279056 3 51.30000 53.60000 51.30000 51.30000  
## BLK:AftHigh 51.61965 0.6252566 3 50.95827 52.20110 51.32892 51.69958  
## BLK:AftLow 48.60000 1.2124356 3 47.30000 49.70000 48.05000 48.80000  
## BRN:AftHigh 51.56249 0.4333647 3 51.10612 51.96844 51.35951 51.61289  
## BRN:AftLow 46.80000 0.4582576 3 46.30000 47.20000 46.60000 46.90000  
## WHT:AftHigh 51.32044 0.1702691 3 51.15200 51.49248 51.23442 51.31684  
## WHT:AftLow 47.20000 0.1000000 3 47.10000 47.30000 47.15000 47.20000  
## WT/BLK:AftHigh 56.39933 0.6914671 3 55.61528 56.92203 56.13798 56.66068  
## WT/BLK:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## WT/BR:AftHigh 57.47858 0.2944984 3 57.13858 57.65381 57.39097 57.64336  
## WT/BR:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## Q75  
## BL/BR:AftHigh 55.72853  
## BL/BR:AftLow 52.45000  
## BLK:AftHigh 51.95034  
## BLK:AftLow 49.25000  
## BRN:AftHigh 51.79067  
## BRN:AftLow 47.05000  
## WHT:AftHigh 51.40466  
## WHT:AftLow 47.25000  
## WT/BLK:AftHigh 56.79136  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 57.64858  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.47858 a  
## WT/BLK:AftHigh 56.39933 ab  
## BL/BR:AftHigh 55.47299 ab  
## WT/BR:AftLow 55.43333 ab  
## WT/BLK:AftLow 54.26667 b  
## BL/BR:AftLow 52.06667 c  
## BLK:AftHigh 51.61965 c  
## BRN:AftHigh 51.56249 c  
## WHT:AftHigh 51.32044 c  
## BLK:AftLow 48.60000 d  
## WHT:AftLow 47.20000 d  
## BRN:AftLow 46.80000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT53 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 106.645 21.329 11.3195 1.089e-05 \*\*\*  
## THIregime 1 83.987 83.987 44.5726 6.622e-07 \*\*\*  
## Colour:THIregime 5 4.404 0.881 0.4674 0.7966   
## Residuals 24 45.223 1.884   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.884278   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.47883 2.315715 6 52.3 58.36817  
## BLK 51.96553 2.983933 6 47.3 55.50619  
## BRN 54.66332 1.605294 6 52.5 56.31489  
## WHT 51.45962 2.410532 6 49.1 53.90670  
## WT/BLK 54.93950 1.593067 6 53.2 56.63455  
## WT/BR 55.92432 1.237288 6 54.6 57.11369  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.450427   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.92432 a  
## BL/BR 55.47883 a  
## WT/BLK 54.93950 a  
## BRN 54.66332 a  
## BLK 51.96553 b  
## WHT 51.45962 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.884278   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.59926 1.629283 18 52.20031 58.36817  
## AftLow 52.54444 2.556933 18 47.30000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9443643   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.59926 a  
## AftLow 52.54444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.884278 24 54.07185 2.538641 4.041178  
##   
## $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 56.75767 1.41070516 3 55.74073 58.36817 55.95242 56.16412  
## BL/BR:AftLow 54.20000 2.55147016 3 52.30000 57.10000 52.75000 53.20000  
## BLK:AftHigh 53.69773 1.67475003 3 52.20031 55.50619 52.79349 53.38668  
## BLK:AftLow 50.23333 3.23316151 3 47.30000 53.70000 48.50000 49.70000  
## BRN:AftHigh 56.05997 0.38363386 3 55.61876 56.31489 55.93251 56.24625  
## BRN:AftLow 53.26667 0.66583281 3 52.50000 53.70000 53.05000 53.60000  
## WHT:AftHigh 53.65257 0.23707934 3 53.43736 53.90670 53.52550 53.61365  
## WHT:AftLow 49.26667 0.20816660 3 49.10000 49.50000 49.15000 49.20000  
## WT/BLK:AftHigh 56.37900 0.24116268 3 56.15540 56.63455 56.25123 56.34706  
## WT/BLK:AftLow 53.50000 0.26457513 3 53.20000 53.70000 53.40000 53.60000  
## WT/BR:AftHigh 57.04864 0.07015642 3 56.97430 57.11369 57.01612 57.05793  
## WT/BR:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## Q75  
## BL/BR:AftHigh 57.26614  
## BL/BR:AftLow 55.15000  
## BLK:AftHigh 54.44644  
## BLK:AftLow 51.70000  
## BRN:AftHigh 56.28057  
## BRN:AftLow 53.65000  
## WHT:AftHigh 53.76018  
## WHT:AftLow 49.35000  
## WT/BLK:AftHigh 56.49080  
## WT/BLK:AftLow 53.65000  
## WT/BR:AftHigh 57.08581  
## WT/BR:AftLow 54.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.04864 a  
## BL/BR:AftHigh 56.75767 a  
## WT/BLK:AftHigh 56.37900 a  
## BRN:AftHigh 56.05997 a  
## WT/BR:AftLow 54.80000 a  
## BL/BR:AftLow 54.20000 ab  
## BLK:AftHigh 53.69773 ab  
## WHT:AftHigh 53.65257 ab  
## WT/BLK:AftLow 53.50000 ab  
## BRN:AftLow 53.26667 abc  
## BLK:AftLow 50.23333 bc  
## WHT:AftLow 49.26667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT54 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.980 42.396 34.7386 3.110e-10 \*\*\*  
## THIregime 1 94.468 94.468 77.4052 5.633e-09 \*\*\*  
## Colour:THIregime 5 9.986 1.997 1.6364 0.1886   
## Residuals 24 29.290 1.220   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.22043   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.13496 2.481055 6 49.3 56.03925  
## BLK 50.30352 2.446842 6 47.3 53.15384  
## BRN 54.46332 1.649360 6 51.9 56.16412  
## WHT 50.52636 2.550505 6 48.1 53.00178  
## WT/BLK 54.97637 1.436349 6 53.6 56.37320  
## WT/BR 57.11491 1.821393 6 53.9 58.98296  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.972085   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11491 a  
## WT/BLK 54.97637 b  
## BRN 54.46332 b  
## BL/BR 53.13496 b  
## WHT 50.52636 c  
## BLK 50.30352 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.22043   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03982 2.084059 18 51.95638 58.98296  
## AftLow 51.80000 3.230553 18 47.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7600173   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03982 a  
## AftLow 51.80000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.22043 24 53.41991 2.068013 3.252309  
##   
## $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 55.03658 0.96292487 3 54.11905 56.03925 54.53525 54.95145  
## BL/BR:AftLow 51.23333 1.90087699 3 49.30000 53.10000 50.30000 51.30000  
## BLK:AftHigh 52.37371 0.67615790 3 51.95638 53.15384 51.98365 52.01092  
## BLK:AftLow 48.23333 1.28582010 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 55.79331 0.59247911 3 55.11000 56.16412 55.60791 56.10581  
## BRN:AftLow 53.13333 1.06926766 3 51.90000 53.80000 52.80000 53.70000  
## WHT:AftHigh 52.85271 0.12990914 3 52.76366 53.00178 52.77818 52.79270  
## WHT:AftLow 48.20000 0.10000000 3 48.10000 48.30000 48.15000 48.20000  
## WT/BLK:AftHigh 56.28608 0.09178310 3 56.19025 56.37320 56.24252 56.29479  
## WT/BLK:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WT/BR:AftHigh 57.89649 1.37758667 3 56.34706 58.98296 57.35326 58.35946  
## WT/BR:AftLow 56.33333 2.13619600 3 53.90000 57.90000 55.55000 57.20000  
## Q75  
## BL/BR:AftHigh 55.49535  
## BL/BR:AftLow 52.20000  
## BLK:AftHigh 52.58238  
## BLK:AftLow 48.70000  
## BRN:AftHigh 56.13496  
## BRN:AftLow 53.75000  
## WHT:AftHigh 52.89724  
## WHT:AftLow 48.25000  
## WT/BLK:AftHigh 56.33399  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 58.67121  
## WT/BR:AftLow 57.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.89649 a  
## WT/BR:AftLow 56.33333 ab  
## WT/BLK:AftHigh 56.28608 ab  
## BRN:AftHigh 55.79331 abc  
## BL/BR:AftHigh 55.03658 abcd  
## WT/BLK:AftLow 53.66667 bcde  
## BRN:AftLow 53.13333 bcde  
## WHT:AftHigh 52.85271 cde  
## BLK:AftHigh 52.37371 de  
## BL/BR:AftLow 51.23333 ef  
## BLK:AftLow 48.23333 f  
## WHT:AftLow 48.20000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT55 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 167.596 33.519 22.1004 2.885e-08 \*\*\*  
## THIregime 1 94.371 94.371 62.2222 4.046e-08 \*\*\*  
## Colour:THIregime 5 5.808 1.162 0.7659 0.5834   
## Residuals 24 36.400 1.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516679   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.82468 2.228619 6 49.2 54.15172  
## BLK 51.46750 2.666668 6 47.3 54.54943  
## BRN 52.35983 1.796430 6 50.2 54.40959  
## WHT 48.99036 2.752818 6 45.7 52.09867  
## WT/BLK 55.15336 1.450079 6 53.7 56.58228  
## WT/BR 55.15208 1.526481 6 53.1 56.92203  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.198447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 55.15336 a  
## WT/BR 55.15208 a  
## BRN 52.35983 b  
## BL/BR 51.82468 b  
## BLK 51.46750 b  
## WHT 48.99036 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516679   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.11038 2.037133 18 50.77569 56.92203  
## AftLow 50.87222 2.862086 18 45.70000 54.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8472546   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.11038 a  
## AftLow 50.87222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.516679 24 52.4913 2.34617 3.62562  
##   
## $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 53.81603 0.4659604 3 53.28404 54.15172 53.64819 54.01233  
## BL/BR:AftLow 49.83333 0.5507571 3 49.20000 50.20000 49.65000 50.10000  
## BLK:AftHigh 52.73501 1.6876326 3 51.21215 54.54943 51.82780 52.44344  
## BLK:AftLow 50.20000 3.1796226 3 47.30000 53.60000 48.50000 49.70000  
## BRN:AftHigh 53.88634 0.4625444 3 53.53195 54.40959 53.62471 53.71748  
## BRN:AftLow 50.83333 0.9291573 3 50.20000 51.90000 50.30000 50.40000  
## WHT:AftHigh 51.31405 0.6950186 3 50.77569 52.09867 50.92174 51.06779  
## WHT:AftLow 46.66667 1.5044379 3 45.70000 48.40000 45.80000 45.90000  
## WT/BLK:AftHigh 56.47338 0.1269185 3 56.33399 56.58228 56.41893 56.50387  
## WT/BLK:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## WT/BR:AftHigh 56.43750 0.4745037 3 55.97370 56.92203 56.19523 56.41675  
## WT/BR:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## Q75  
## BL/BR:AftHigh 54.08203  
## BL/BR:AftLow 50.15000  
## BLK:AftHigh 53.49643  
## BLK:AftLow 51.65000  
## BRN:AftHigh 54.06353  
## BRN:AftLow 51.15000  
## WHT:AftHigh 51.58323  
## WHT:AftLow 47.15000  
## WT/BLK:AftHigh 56.54307  
## WT/BLK:AftLow 53.90000  
## WT/BR:AftHigh 56.66939  
## WT/BR:AftLow 54.25000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 56.47338 a  
## WT/BR:AftHigh 56.43750 a  
## BRN:AftHigh 53.88634 ab  
## WT/BR:AftLow 53.86667 ab  
## WT/BLK:AftLow 53.83333 ab  
## BL/BR:AftHigh 53.81603 abc  
## BLK:AftHigh 52.73501 bcd  
## WHT:AftHigh 51.31405 bcd  
## BRN:AftLow 50.83333 bcd  
## BLK:AftLow 50.20000 cde  
## BL/BR:AftLow 49.83333 de  
## WHT:AftLow 46.66667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT56 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 401.55 80.311 96.2704 4.464e-15 \*\*\*  
## THIregime 1 109.63 109.633 131.4192 3.200e-11 \*\*\*  
## Colour:THIregime 5 21.66 4.332 5.1923 0.002277 \*\*   
## Residuals 24 20.02 0.834   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8342206   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.93055 2.3575648 6 49.9 55.48461  
## BLK 50.12271 2.2646370 6 47.3 52.79270  
## BRN 54.69919 1.4018496 6 53.1 56.05211  
## WHT 47.78002 3.3789756 6 44.6 51.10699  
## WT/BLK 54.20277 2.3710702 6 51.4 57.57541  
## WT/BR 58.20198 0.7556172 6 57.1 59.23684  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.630458   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.20198 a  
## BRN 54.69919 b  
## WT/BLK 54.20277 bc  
## BL/BR 52.93055 c  
## BLK 50.12271 d  
## WHT 47.78002 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8342206   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.73463 2.774340 18 50.56832 59.23684  
## AftLow 51.24444 4.286672 18 44.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6283585   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.73463 a  
## AftLow 51.24444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8342206 24 52.98954 1.723655 2.688908  
##   
## $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 54.99443 0.6427541 3 54.26671 55.48461 54.74934 55.23197  
## BL/BR:AftLow 50.86667 0.8386497 3 49.90000 51.40000 50.60000 51.30000  
## BLK:AftHigh 52.01208 0.6774517 3 51.57804 52.79270 51.62177 51.66549  
## BLK:AftLow 48.23333 1.2858201 3 47.30000 49.70000 47.50000 47.70000  
## BRN:AftHigh 55.96506 0.1497035 3 55.79219 56.05211 55.92153 56.05086  
## BRN:AftLow 53.43333 0.2886751 3 53.10000 53.60000 53.35000 53.60000  
## WHT:AftHigh 50.86005 0.2721136 3 50.56832 51.10699 50.73658 50.90483  
## WHT:AftLow 44.70000 0.1000000 3 44.60000 44.80000 44.65000 44.70000  
## WT/BLK:AftHigh 55.83888 1.5103210 3 54.83123 57.57541 54.97062 55.11000  
## WT/BLK:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## WT/BR:AftHigh 58.73729 0.5517067 3 58.14515 59.23684 58.48752 58.82989  
## WT/BR:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## Q75  
## BL/BR:AftHigh 55.35829  
## BL/BR:AftLow 51.35000  
## BLK:AftHigh 52.22909  
## BLK:AftLow 48.70000  
## BRN:AftHigh 56.05149  
## BRN:AftLow 53.60000  
## WHT:AftHigh 51.00591  
## WHT:AftLow 44.75000  
## WT/BLK:AftHigh 56.34270  
## WT/BLK:AftLow 53.15000  
## WT/BR:AftHigh 59.03336  
## WT/BR:AftLow 57.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.73729 a  
## WT/BR:AftLow 57.66667 ab  
## BRN:AftHigh 55.96506 bc  
## WT/BLK:AftHigh 55.83888 bc  
## BL/BR:AftHigh 54.99443 bcd  
## BRN:AftLow 53.43333 cde  
## WT/BLK:AftLow 52.56667 de  
## BLK:AftHigh 52.01208 e  
## BL/BR:AftLow 50.86667 ef  
## WHT:AftHigh 50.86005 ef  
## BLK:AftLow 48.23333 f  
## WHT:AftLow 44.70000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT57 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.84 82.168 98.2750 3.531e-15 \*\*\*  
## THIregime 1 113.91 113.911 136.2400 2.213e-11 \*\*\*  
## Colour:THIregime 5 16.86 3.372 4.0325 0.008485 \*\*   
## Residuals 24 20.07 0.836   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8361052   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.55880 2.327727 6 51.5 57.86289  
## BLK 50.52303 2.306169 6 47.3 53.07781  
## BRN 54.26414 1.721103 6 52.5 55.98921  
## WHT 47.72967 3.507262 6 44.2 51.00899  
## WT/BLK 56.87510 1.329644 6 55.2 58.25492  
## WT/BR 56.68884 1.548989 6 54.8 58.61707  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.632299   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.87510 a  
## WT/BR 56.68884 a  
## BL/BR 55.55880 ab  
## BRN 54.26414 b  
## BLK 50.52303 c  
## WHT 47.72967 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8361052   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.38541 2.868178 18 50.76579 58.61707  
## AftLow 51.82778 4.255903 18 44.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6290679   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.38541 a  
## AftLow 51.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8361052 24 53.6066 1.705738 2.691943  
##   
## $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 57.11761 1.2514684 3 55.67278 57.86289 56.74497 57.81715  
## BL/BR:AftLow 54.00000 2.1656408 3 51.50000 55.30000 53.35000 55.20000  
## BLK:AftHigh 52.47939 0.6005505 3 51.87673 53.07781 52.18018 52.48363  
## BLK:AftLow 48.56667 1.2055428 3 47.30000 49.70000 48.00000 48.70000  
## BRN:AftHigh 55.82829 0.1608309 3 55.66755 55.98921 55.74782 55.82809  
## BRN:AftLow 52.70000 0.2000000 3 52.50000 52.90000 52.60000 52.70000  
## WHT:AftHigh 50.92600 0.1387777 3 50.76579 51.00899 50.88450 51.00322  
## WHT:AftLow 44.53333 0.2886751 3 44.20000 44.70000 44.45000 44.70000  
## WT/BLK:AftHigh 58.05019 0.2594922 3 57.75835 58.25492 57.94783 58.13731  
## WT/BLK:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 57.91101 0.6115278 3 57.54927 58.61707 57.55798 57.56669  
## WT/BR:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## Q75  
## BL/BR:AftHigh 57.84002  
## BL/BR:AftLow 55.25000  
## BLK:AftHigh 52.78072  
## BLK:AftLow 49.20000  
## BRN:AftHigh 55.90865  
## BRN:AftLow 52.80000  
## WHT:AftHigh 51.00610  
## WHT:AftLow 44.70000  
## WT/BLK:AftHigh 58.19611  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 58.09188  
## WT/BR:AftLow 55.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.05019 a  
## WT/BR:AftHigh 57.91101 a  
## BL/BR:AftHigh 57.11761 a  
## BRN:AftHigh 55.82829 ab  
## WT/BLK:AftLow 55.70000 ab  
## WT/BR:AftLow 55.46667 ab  
## BL/BR:AftLow 54.00000 bc  
## BRN:AftLow 52.70000 cd  
## BLK:AftHigh 52.47939 cd  
## WHT:AftHigh 50.92600 de  
## BLK:AftLow 48.56667 e  
## WHT:AftLow 44.53333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT58 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 442.47 88.493 106.0461 1.483e-15 \*\*\*  
## THIregime 1 103.74 103.739 124.3159 5.633e-11 \*\*\*  
## Colour:THIregime 5 15.75 3.150 3.7743 0.01157 \*   
## Residuals 24 20.03 0.834   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8344806   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.95436 1.370285 6 55.1 58.61209  
## BLK 50.80816 2.114364 6 47.3 53.14041  
## BRN 49.31732 2.954049 6 46.3 52.38660  
## WHT 48.55828 2.805919 6 45.7 51.61989  
## WT/BLK 55.51089 1.872168 6 52.8 57.83676  
## WT/BR 56.70289 1.204222 6 55.2 57.97490  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.630712   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.95436 a  
## WT/BR 56.70289 a  
## WT/BLK 55.51089 a  
## BLK 50.80816 b  
## BRN 49.31732 bc  
## WHT 48.55828 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8344806   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.67286 3.044682 18 50.72804 58.61209  
## AftLow 51.27778 4.343021 18 45.70000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6284564   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.67286 a  
## AftLow 51.27778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8344806 24 52.97532 1.724386 2.689327  
##   
## $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 58.04206 0.5306730 3 57.56234 58.61209 57.75704 57.95175  
## BL/BR:AftLow 55.86667 0.9291573 3 55.10000 56.90000 55.35000 55.60000  
## BLK:AftHigh 52.34966 0.9188935 3 51.34159 53.14041 51.95429 52.56699  
## BLK:AftLow 49.26667 1.7897858 3 47.30000 50.80000 48.50000 49.70000  
## BRN:AftHigh 52.00130 0.3336847 3 51.80654 52.38660 51.80866 51.81077  
## BRN:AftLow 46.63333 0.3055050 3 46.30000 46.90000 46.50000 46.70000  
## WHT:AftHigh 51.08323 0.4728120 3 50.72804 51.61989 50.81490 50.90176  
## WHT:AftLow 46.03333 0.5773503 3 45.70000 46.70000 45.70000 45.70000  
## WT/BLK:AftHigh 56.78845 1.0013618 3 55.84178 57.83676 56.26430 56.68682  
## WT/BLK:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## WT/BR:AftHigh 57.77245 0.2239774 3 57.53185 57.97490 57.67123 57.81062  
## WT/BR:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 58.28192  
## BL/BR:AftLow 56.25000  
## BLK:AftHigh 52.85370  
## BLK:AftLow 50.25000  
## BRN:AftHigh 52.09869  
## BRN:AftLow 46.80000  
## WHT:AftHigh 51.26082  
## WHT:AftLow 46.20000  
## WT/BLK:AftHigh 57.26179  
## WT/BLK:AftLow 54.95000  
## WT/BR:AftHigh 57.89276  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.04206 a  
## WT/BR:AftHigh 57.77245 a  
## WT/BLK:AftHigh 56.78845 ab  
## BL/BR:AftLow 55.86667 ab  
## WT/BR:AftLow 55.63333 ab  
## WT/BLK:AftLow 54.23333 bc  
## BLK:AftHigh 52.34966 cd  
## BRN:AftHigh 52.00130 cd  
## WHT:AftHigh 51.08323 de  
## BLK:AftLow 49.26667 ef  
## BRN:AftLow 46.63333 fg  
## WHT:AftLow 46.03333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT59 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 116.610 23.322 6.1253 0.0008607 \*\*\*  
## THIregime 1 91.108 91.108 23.9285 5.471e-05 \*\*\*  
## Colour:THIregime 5 4.440 0.888 0.2332 0.9441090   
## Residuals 24 91.380 3.808   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.807521   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.75006 2.582241 6 50.1 57.31406  
## BLK 51.48752 2.591308 6 47.3 54.52897  
## BRN 51.38542 3.661843 6 46.3 56.04952  
## WHT 52.04890 1.920318 6 50.2 53.90267  
## WT/BLK 55.08814 2.183455 6 51.6 57.94130  
## WT/BR 55.68502 1.462446 6 53.7 57.55674  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.483295   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.68502 a  
## WT/BLK 55.08814 ab  
## BL/BR 54.75006 abc  
## WHT 52.04890 bc  
## BLK 51.48752 c  
## BRN 51.38542 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.807521   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.99835 1.937339 18 51.84686 57.9413  
## AftLow 51.81667 2.956797 18 46.30000 55.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.342419   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.99835 a  
## AftLow 51.81667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.807521 24 53.40751 3.653581 5.744557  
##   
## $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 56.20012 1.5880452 3 54.38171 57.31406 55.64316 56.90461  
## BL/BR:AftLow 53.30000 2.8000000 3 50.10000 55.30000 52.30000 54.50000  
## BLK:AftHigh 53.14171 1.3434415 3 51.84686 54.52897 52.44808 53.04930  
## BLK:AftLow 49.83333 2.6025628 3 47.30000 52.50000 48.50000 49.70000  
## BRN:AftHigh 53.60418 2.1796222 3 51.86578 56.04952 52.38151 52.89724  
## BRN:AftLow 49.16667 3.7421028 3 46.30000 53.40000 47.05000 47.80000  
## WHT:AftHigh 53.79779 0.1145927 3 53.67548 53.90267 53.74536 53.81523  
## WHT:AftLow 50.30000 0.1732051 3 50.20000 50.50000 50.20000 50.20000  
## WT/BLK:AftHigh 56.47628 1.3884818 3 55.17970 57.94130 55.74378 56.30786  
## WT/BLK:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## WT/BR:AftHigh 56.77003 0.6964852 3 56.23207 57.55674 56.37668 56.52129  
## WT/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## Q75  
## BL/BR:AftHigh 57.10933  
## BL/BR:AftLow 54.90000  
## BLK:AftHigh 53.78914  
## BLK:AftLow 51.10000  
## BRN:AftHigh 54.47338  
## BRN:AftLow 50.60000  
## WHT:AftHigh 53.85895  
## WHT:AftLow 50.35000  
## WT/BLK:AftHigh 57.12458  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 57.03902  
## WT/BR:AftLow 55.05000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.77003 a  
## WT/BLK:AftHigh 56.47628 a  
## BL/BR:AftHigh 56.20012 a  
## WT/BR:AftLow 54.60000 ab  
## WHT:AftHigh 53.79779 ab  
## WT/BLK:AftLow 53.70000 ab  
## BRN:AftHigh 53.60418 ab  
## BL/BR:AftLow 53.30000 ab  
## BLK:AftHigh 53.14171 ab  
## WHT:AftLow 50.30000 b  
## BLK:AftLow 49.83333 b  
## BRN:AftLow 49.16667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT60 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 1271.47 254.295 3.1957 0.02373 \*  
## THIregime 1 126.83 126.831 1.5939 0.21890   
## Colour:THIregime 5 95.39 19.077 0.2397 0.94090   
## Residuals 24 1909.78 79.574   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 79.57415   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.57997 2.7199923 6 50.2 56.89067  
## BLK 52.95665 0.6085891 6 52.1 53.55933  
## BRN 39.36894 20.1108869 6 3.5 54.65202  
## WHT 50.47198 3.2131310 6 44.6 53.08309  
## WT/BLK 56.78943 1.2543083 6 55.2 58.24185  
## WT/BR 56.92830 1.5118295 6 54.8 58.69921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 15.92411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.92830 a  
## WT/BLK 56.78943 a  
## BL/BR 53.57997 ab  
## BLK 52.95665 ab  
## WHT 50.47198 ab  
## BRN 39.36894 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 79.57415   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.55954 6.984142 18 27.68916 58.69921  
## AftLow 49.80556 11.998552 18 3.50000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 6.136957   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.55954 a  
## AftLow 49.80556 a  
## $statistics  
## MSerror Df Mean CV MSD  
## 79.57415 24 51.68255 17.26005 26.26162  
##   
## $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 55.49327 1.2208202 3 54.63377 56.89067 54.79457 54.95537  
## BL/BR:AftLow 51.66667 2.4542480 3 50.20000 54.50000 50.25000 50.30000  
## BLK:AftHigh 53.47997 0.1050411 3 53.36085 53.55933 53.44029 53.51973  
## BLK:AftLow 52.43333 0.3055050 3 52.10000 52.70000 52.30000 52.50000  
## BRN:AftHigh 44.77121 14.8540367 3 27.68916 54.65202 39.83081 51.97246  
## BRN:AftLow 33.96667 26.5127014 3 3.50000 51.80000 25.05000 46.60000  
## WHT:AftHigh 51.57730 2.2320427 3 49.01293 53.08309 50.82441 52.63589  
## WHT:AftLow 49.36667 4.1428654 3 44.60000 52.10000 48.00000 51.40000  
## WT/BLK:AftHigh 57.87886 0.4032931 3 57.44473 58.24185 57.69737 57.95001  
## WT/BLK:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 58.15660 0.5271789 3 57.64634 58.69921 57.88529 58.12424  
## WT/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## Q75  
## BL/BR:AftHigh 55.92302  
## BL/BR:AftLow 52.40000  
## BLK:AftHigh 53.53953  
## BLK:AftLow 52.60000  
## BRN:AftHigh 53.31224  
## BRN:AftLow 49.20000  
## WHT:AftHigh 52.85949  
## WHT:AftLow 51.75000  
## WT/BLK:AftHigh 58.09593  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 58.41173  
## WT/BR:AftLow 56.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.15660 a  
## WT/BLK:AftHigh 57.87886 a  
## WT/BLK:AftLow 55.70000 a  
## WT/BR:AftLow 55.70000 a  
## BL/BR:AftHigh 55.49327 a  
## BLK:AftHigh 53.47997 a  
## BLK:AftLow 52.43333 a  
## BL/BR:AftLow 51.66667 a  
## WHT:AftHigh 51.57730 a  
## WHT:AftLow 49.36667 a  
## BRN:AftHigh 44.77121 a  
## BRN:AftLow 33.96667 a  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT61 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.820 62.964 54.8807 2.367e-12 \*\*\*  
## THIregime 1 98.498 98.498 85.8533 2.133e-09 \*\*\*  
## Colour:THIregime 5 9.764 1.953 1.7022 0.1725   
## Residuals 24 27.535 1.147   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.147288   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.37189 2.246899 6 51.3 57.60677  
## BLK 50.23374 1.913776 6 48.1 52.07042  
## BRN 49.83155 2.762638 6 46.7 52.96071  
## WHT 49.25965 2.510123 6 46.4 51.81917  
## WT/BLK 55.80735 1.454515 6 53.6 57.65381  
## WT/BR 55.78711 1.549179 6 53.7 57.72848  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.912077   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 55.80735 a  
## WT/BR 55.78711 a  
## BL/BR 55.37189 a  
## BLK 50.23374 b  
## BRN 49.83155 b  
## WHT 49.25965 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.147288   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.36932 2.624950 18 51.05908 57.72848  
## AftLow 51.06111 3.717864 18 46.40000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.736891   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.36932 a  
## AftLow 51.06111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.147288 24 52.71522 2.03189 3.153346  
##   
## $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 56.64379 1.3409864 3 55.11218 57.60677 56.16230 57.21242  
## BL/BR:AftLow 54.10000 2.4433583 3 51.30000 55.80000 53.25000 55.20000  
## BLK:AftHigh 51.96748 0.1369788 3 51.81202 52.07042 51.91601 52.02001  
## BLK:AftLow 48.50000 0.3464102 3 48.10000 48.70000 48.40000 48.70000  
## BRN:AftHigh 52.22977 0.6501653 3 51.71594 52.96071 51.86430 52.01267  
## BRN:AftLow 47.43333 1.1846237 3 46.70000 48.80000 46.75000 46.80000  
## WHT:AftHigh 51.51930 0.4046239 3 51.05908 51.81917 51.36937 51.67966  
## WHT:AftLow 47.00000 0.5196152 3 46.40000 47.30000 46.85000 47.30000  
## WT/BLK:AftHigh 56.88138 0.7843081 3 56.08571 57.65381 56.49516 56.90461  
## WT/BLK:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## WT/BR:AftHigh 56.97422 0.6649853 3 56.47251 57.72848 56.59708 56.72166  
## WT/BR:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## Q75  
## BL/BR:AftHigh 57.40959  
## BL/BR:AftLow 55.50000  
## BLK:AftHigh 52.04522  
## BLK:AftLow 48.70000  
## BRN:AftHigh 52.48669  
## BRN:AftLow 47.80000  
## WHT:AftHigh 51.74941  
## WHT:AftLow 47.30000  
## WT/BLK:AftHigh 57.27921  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.22507  
## WT/BR:AftLow 55.05000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.97422 a  
## WT/BLK:AftHigh 56.88138 a  
## BL/BR:AftHigh 56.64379 a  
## WT/BLK:AftLow 54.73333 ab  
## WT/BR:AftLow 54.60000 abc  
## BL/BR:AftLow 54.10000 abc  
## BRN:AftHigh 52.22977 bc  
## BLK:AftHigh 51.96748 bc  
## WHT:AftHigh 51.51930 cd  
## BLK:AftLow 48.50000 de  
## BRN:AftLow 47.43333 e  
## WHT:AftLow 47.00000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT62 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 217.200 43.440 37.6244 1.353e-10 \*\*\*  
## THIregime 1 77.506 77.506 67.1299 2.063e-08 \*\*\*  
## Colour:THIregime 5 14.544 2.909 2.5194 0.05718 .   
## Residuals 24 27.710 1.155   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.15457   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.13120 1.516591 6 55.3 59.05929  
## BLK 54.39758 1.306833 6 52.6 55.71755  
## BRN 54.93835 1.705650 6 52.6 56.70947  
## WHT 49.57984 3.202342 6 45.3 52.82345  
## WT/BLK 54.98593 2.281950 6 51.6 58.09811  
## WT/BR 56.67085 1.254028 6 54.8 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.918136   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.13120 a  
## WT/BR 56.67085 ab  
## WT/BLK 54.98593 bc  
## BRN 54.93835 bc  
## BLK 54.39758 c  
## WHT 49.57984 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.15457   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.08459 2.017404 18 51.81264 59.05929  
## AftLow 53.15000 3.345453 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7392261   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.08459 a  
## AftLow 53.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.15457 24 54.61729 1.967343 3.163338  
##   
## $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 58.09573 0.8401260 3 57.51660 59.05929 57.61395 57.71131  
## BL/BR:AftLow 56.16667 1.5011107 3 55.30000 57.90000 55.30000 55.30000  
## BLK:AftHigh 55.52850 0.3150874 3 55.16476 55.71755 55.43398 55.70319  
## BLK:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## BRN:AftHigh 56.41004 0.4149596 3 55.93637 56.70947 56.26033 56.58429  
## BRN:AftLow 53.46667 0.7767453 3 52.60000 54.10000 53.15000 53.70000  
## WHT:AftHigh 52.39302 0.5218213 3 51.81264 52.82345 52.17780 52.54297  
## WHT:AftLow 46.76667 1.2741010 3 45.30000 47.60000 46.35000 47.40000  
## WT/BLK:AftHigh 56.43853 1.4814765 3 55.24939 58.09811 55.60875 55.96810  
## WT/BLK:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## WT/BR:AftHigh 57.64170 0.4402551 3 57.21325 58.09288 57.41611 57.61896  
## WT/BR:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## Q75  
## BL/BR:AftHigh 58.38530  
## BL/BR:AftLow 56.60000  
## BLK:AftHigh 55.71037  
## BLK:AftLow 53.60000  
## BRN:AftHigh 56.64688  
## BRN:AftLow 53.90000  
## WHT:AftHigh 52.68321  
## WHT:AftLow 47.50000  
## WT/BLK:AftHigh 57.03310  
## WT/BLK:AftLow 54.50000  
## WT/BR:AftHigh 57.85592  
## WT/BR:AftLow 56.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.09573 a  
## WT/BR:AftHigh 57.64170 a  
## WT/BLK:AftHigh 56.43853 ab  
## BRN:AftHigh 56.41004 abc  
## BL/BR:AftLow 56.16667 abc  
## WT/BR:AftLow 55.70000 abc  
## BLK:AftHigh 55.52850 abcd  
## WT/BLK:AftLow 53.53333 bcd  
## BRN:AftLow 53.46667 bcd  
## BLK:AftLow 53.26667 cd  
## WHT:AftHigh 52.39302 d  
## WHT:AftLow 46.76667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT63 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 264.322 52.864 58.178 1.249e-12 \*\*\*  
## THIregime 1 95.863 95.863 105.499 2.907e-10 \*\*\*  
## Colour:THIregime 5 8.937 1.787 1.967 0.1203   
## Residuals 24 21.808 0.909   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9086598   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.76026 2.801943 6 49.2 56.09094  
## BLK 50.71833 2.195904 6 47.3 52.91542  
## BRN 53.91908 1.577343 6 52.1 55.69570  
## WHT 50.08516 2.605726 6 47.2 52.78290  
## WT/BLK 56.18241 1.397290 6 54.3 57.88903  
## WT/BR 57.59240 1.190942 6 56.1 58.93965  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.701648   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.59240 a  
## WT/BLK 56.18241 a  
## BRN 53.91908 b  
## BL/BR 52.76026 b  
## BLK 50.71833 c  
## WHT 50.08516 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9086598   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.17476 2.394710 18 51.69254 58.93965  
## AftLow 51.91111 3.409138 18 47.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6557944   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.17476 a  
## AftLow 51.91111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9086598 24 53.54294 1.780322 2.806313  
##   
## $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 54.88718 1.0452161 3 54.20980 56.09094 54.28530 54.36080  
## BL/BR:AftLow 50.63333 2.2278540 3 49.20000 53.20000 49.35000 49.50000  
## BLK:AftHigh 52.50332 0.7021855 3 51.69254 52.91542 52.29727 52.90199  
## BLK:AftLow 48.93333 1.4153916 3 47.30000 49.80000 48.50000 49.70000  
## BRN:AftHigh 55.30482 0.3403619 3 55.07391 55.69570 55.10938 55.14485  
## BRN:AftLow 52.53333 0.5859465 3 52.10000 53.20000 52.20000 52.30000  
## WHT:AftHigh 52.43698 0.3974410 3 52.00284 52.78290 52.26402 52.52520  
## WHT:AftLow 47.73333 0.4725816 3 47.20000 48.10000 47.55000 47.90000  
## WT/BLK:AftHigh 57.33148 0.5163454 3 56.86976 57.88903 57.05271 57.23565  
## WT/BLK:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## WT/BR:AftHigh 58.58480 0.3182625 3 58.32461 58.93965 58.40737 58.49013  
## WT/BR:AftLow 56.60000 0.7000000 3 56.10000 57.40000 56.20000 56.30000  
## Q75  
## BL/BR:AftHigh 55.22587  
## BL/BR:AftLow 51.35000  
## BLK:AftHigh 52.90871  
## BLK:AftLow 49.75000  
## BRN:AftHigh 55.42027  
## BRN:AftLow 52.75000  
## WHT:AftHigh 52.65405  
## WHT:AftLow 48.00000  
## WT/BLK:AftHigh 57.56234  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 58.71489  
## WT/BR:AftLow 56.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.58480 a  
## WT/BLK:AftHigh 57.33148 ab  
## WT/BR:AftLow 56.60000 ab  
## BRN:AftHigh 55.30482 bc  
## WT/BLK:AftLow 55.03333 bcd  
## BL/BR:AftHigh 54.88718 bcd  
## BRN:AftLow 52.53333 cde  
## BLK:AftHigh 52.50332 cde  
## WHT:AftHigh 52.43698 de  
## BL/BR:AftLow 50.63333 ef  
## BLK:AftLow 48.93333 fg  
## WHT:AftLow 47.73333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT64 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 370.03 74.005 40.2086 6.720e-11 \*\*\*  
## THIregime 1 97.30 97.297 52.8638 1.641e-07 \*\*\*  
## Colour:THIregime 5 17.55 3.511 1.9075 0.1304   
## Residuals 24 44.17 1.841   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.840531   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.31060 2.9858346 6 49.9 58.16998  
## BLK 54.37610 0.8245204 6 53.4 55.31829  
## BRN 50.26357 2.8138185 6 46.9 53.52046  
## WHT 48.24971 3.2197351 6 44.3 51.94767  
## WT/BLK 56.59736 1.4332567 6 54.6 58.12424  
## WT/BR 56.66660 1.3679750 6 54.9 58.10682  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.421814   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.66660 a  
## WT/BLK 56.59736 a  
## BL/BR 55.31060 a  
## BLK 54.37610 a  
## BRN 50.26357 b  
## WHT 48.24971 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.840531   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.22132 2.822103 18 50.17613 58.16998  
## AftLow 51.93333 4.175277 18 44.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9333373   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.22132 a  
## AftLow 51.93333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.840531 24 53.57732 2.532157 3.99399  
##   
## $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 56.92121 1.8936442 3 54.74237 58.16998 56.29682 57.85127  
## BL/BR:AftLow 53.70000 3.3045423 3 49.90000 55.90000 52.60000 55.30000  
## BLK:AftHigh 55.08553 0.2153191 3 54.89346 55.31829 54.96916 55.04486  
## BLK:AftLow 53.66667 0.3785939 3 53.40000 54.10000 53.45000 53.50000  
## BRN:AftHigh 52.72714 0.7459140 3 52.04001 53.52046 52.33048 52.62096  
## BRN:AftLow 47.80000 1.0148892 3 46.90000 48.90000 47.25000 47.60000  
## WHT:AftHigh 50.89943 0.9293971 3 50.17613 51.94767 50.37531 50.57449  
## WHT:AftLow 45.60000 1.9974984 3 44.30000 47.90000 44.45000 44.60000  
## WT/BLK:AftHigh 57.82804 0.3852882 3 57.39246 58.12424 57.67995 57.96743  
## WT/BLK:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## WT/BR:AftHigh 57.86654 0.3090456 3 57.51791 58.10682 57.74640 57.97490  
## WT/BR:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## Q75  
## BL/BR:AftHigh 58.01063  
## BL/BR:AftLow 55.60000  
## BLK:AftHigh 55.18157  
## BLK:AftLow 53.80000  
## BRN:AftHigh 53.07071  
## BRN:AftLow 48.25000  
## WHT:AftHigh 51.26108  
## WHT:AftLow 46.25000  
## WT/BLK:AftHigh 58.04584  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 58.04086  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.86654 a  
## WT/BLK:AftHigh 57.82804 a  
## BL/BR:AftHigh 56.92121 ab  
## WT/BR:AftLow 55.46667 abc  
## WT/BLK:AftLow 55.36667 abc  
## BLK:AftHigh 55.08553 abc  
## BL/BR:AftLow 53.70000 bcd  
## BLK:AftLow 53.66667 bcd  
## BRN:AftHigh 52.72714 cd  
## WHT:AftHigh 50.89943 de  
## BRN:AftLow 47.80000 ef  
## WHT:AftLow 45.60000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT65 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 477.06 95.411 21.803 3.285e-08 \*\*\*  
## THIregime 1 119.44 119.439 27.294 2.357e-05 \*\*\*  
## Colour:THIregime 5 24.18 4.835 1.105 0.3838   
## Residuals 24 105.02 4.376   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.375968   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.33401 1.230998 6 56.5 59.67927  
## BLK 53.98971 1.717056 6 51.5 55.98117  
## BRN 54.65088 2.574523 6 50.4 57.39246  
## WHT 48.18788 3.807000 6 43.6 51.87644  
## WT/BLK 59.56518 4.231276 6 54.8 64.70000  
## WT/BR 55.10119 2.497826 6 51.6 57.88380  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.734274   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 59.56518 a  
## BL/BR 58.33401 ab  
## WT/BR 55.10119 bc  
## BRN 54.65088 bc  
## BLK 53.98971 c  
## WHT 48.18788 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.375968   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.79295 3.261099 18 51.27034 64.60572  
## AftLow 53.15000 5.002735 18 43.60000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.439144   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.79295 a  
## AftLow 53.15000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 4.375968 24 54.97147 3.805395 6.158465  
##   
## $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 59.33468 0.3755300 3 58.93443 59.67927 59.16238 59.39034  
## BL/BR:AftLow 57.33333 0.8020806 3 56.50000 58.10000 56.95000 57.40000  
## BLK:AftHigh 55.37941 0.6056877 3 54.76987 55.98117 55.07853 55.38719  
## BLK:AftLow 52.60000 1.1000000 3 51.50000 53.70000 52.05000 52.60000  
## BRN:AftHigh 56.56842 1.1900319 3 55.20409 57.39246 56.15640 57.10871  
## BRN:AftLow 52.73333 2.0305993 3 50.40000 54.10000 52.05000 53.70000  
## WHT:AftHigh 51.60909 0.3092974 3 51.27034 51.87644 51.47542 51.68051  
## WHT:AftLow 44.76667 1.0115994 3 43.60000 45.40000 44.45000 45.30000  
## WT/BLK:AftHigh 60.66369 3.4199006 3 58.49013 64.60572 58.69268 58.89522  
## WT/BLK:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## WT/BR:AftHigh 57.20238 0.9395955 3 56.13051 57.88380 56.86167 57.59283  
## WT/BR:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## Q75  
## BL/BR:AftHigh 59.53480  
## BL/BR:AftLow 57.75000  
## BLK:AftHigh 55.68418  
## BLK:AftLow 53.15000  
## BRN:AftHigh 57.25058  
## BRN:AftLow 53.90000  
## WHT:AftHigh 51.77847  
## WHT:AftLow 45.35000  
## WT/BLK:AftHigh 61.75047  
## WT/BLK:AftLow 60.30000  
## WT/BR:AftHigh 57.73831  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 60.66369 a  
## BL/BR:AftHigh 59.33468 a  
## WT/BLK:AftLow 58.46667 ab  
## BL/BR:AftLow 57.33333 abc  
## WT/BR:AftHigh 57.20238 abc  
## BRN:AftHigh 56.56842 abc  
## BLK:AftHigh 55.37941 abc  
## WT/BR:AftLow 53.00000 bc  
## BRN:AftLow 52.73333 bc  
## BLK:AftLow 52.60000 bc  
## WHT:AftHigh 51.60909 c  
## WHT:AftLow 44.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT66 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 392.40 78.480 29.0209 1.962e-09 \*\*\*  
## THIregime 1 106.08 106.083 39.2282 1.790e-06 \*\*\*  
## Colour:THIregime 5 11.40 2.281 0.8433 0.5325   
## Residuals 24 64.90 2.704   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.704253   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.20651 1.989559 6 53.4 58.68179  
## BLK 48.70234 2.385994 6 46.2 51.06530  
## BRN 49.82665 2.821300 6 46.3 52.82487  
## WHT 50.16049 3.837603 6 43.2 53.86424  
## WT/BLK 56.21713 1.346563 6 54.2 57.86289  
## WT/BR 55.88655 1.525180 6 53.8 57.63639  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.935573   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.21713 a  
## BL/BR 56.20651 a  
## WT/BR 55.88655 a  
## WHT 50.16049 b  
## BRN 49.82665 b  
## BLK 48.70234 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.704253   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.54989 3.008998 18 49.56648 58.68179  
## AftLow 51.11667 4.303111 18 43.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.131334   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.54989 a  
## AftLow 51.11667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.704253 24 52.83328 3.112548 4.841267  
##   
## $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 57.37968 1.1676966 3 56.42547 58.68179 56.72863 57.03180  
## BL/BR:AftLow 55.03333 2.0984121 3 53.40000 57.40000 53.85000 54.30000  
## BLK:AftHigh 50.87134 0.1879590 3 50.69002 51.06530 50.77437 50.85871  
## BLK:AftLow 46.53333 0.2886751 3 46.20000 46.70000 46.45000 46.70000  
## BRN:AftHigh 52.31997 0.6679225 3 51.56261 52.82487 52.06752 52.57242  
## BRN:AftLow 47.33333 0.8962886 3 46.30000 47.90000 47.05000 47.80000  
## WHT:AftHigh 52.28765 2.3664819 3 49.56648 53.86424 51.49936 53.43224  
## WHT:AftLow 48.03333 4.2003968 3 43.20000 50.80000 46.65000 50.10000  
## WT/BLK:AftHigh 57.26759 0.6777393 3 56.53001 57.86289 56.96994 57.40988  
## WT/BLK:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## WT/BR:AftHigh 57.17309 0.4580771 3 56.72042 57.63639 56.94144 57.16247  
## WT/BR:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## Q75  
## BL/BR:AftHigh 57.85679  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 50.96201  
## BLK:AftLow 46.70000  
## BRN:AftHigh 52.69864  
## BRN:AftLow 47.85000  
## WHT:AftHigh 53.64824  
## WHT:AftLow 50.45000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.65000  
## WT/BR:AftHigh 57.39943  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.37968 a  
## WT/BLK:AftHigh 57.26759 a  
## WT/BR:AftHigh 57.17309 a  
## WT/BLK:AftLow 55.16667 ab  
## BL/BR:AftLow 55.03333 ab  
## WT/BR:AftLow 54.60000 ab  
## BRN:AftHigh 52.31997 bc  
## WHT:AftHigh 52.28765 bc  
## BLK:AftHigh 50.87134 bcd  
## WHT:AftLow 48.03333 cd  
## BRN:AftLow 47.33333 d  
## BLK:AftLow 46.53333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT67 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 177.366 35.473 33.049 5.208e-10 \*\*\*  
## THIregime 1 91.008 91.008 84.788 2.401e-09 \*\*\*  
## Colour:THIregime 5 7.792 1.558 1.452 0.2422   
## 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: 1.07336   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.65777 1.530080 6 54.3 58.47706  
## BLK 51.08696 2.186929 6 48.8 53.20588  
## BRN 54.96778 1.585223 6 53.2 56.52799  
## WHT 51.07892 3.183316 6 45.7 54.23781  
## WT/BLK 56.02799 1.536508 6 53.8 57.88903  
## WT/BR 54.68709 1.667691 6 53.1 56.28434  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.849447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.65777 a  
## WT/BLK 56.02799 ab  
## BRN 54.96778 ab  
## WT/BR 54.68709 b  
## BLK 51.08696 c  
## WHT 51.07892 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.07336   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.67439 1.909564 18 51.99558 58.47706  
## AftLow 52.49444 2.959824 18 45.70000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7127542   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.67439 a  
## AftLow 52.49444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.07336 24 54.08442 1.915581 3.050059  
##   
## $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 57.64887 0.77631965 3 56.93771 58.47706 57.23478 57.53185  
## BL/BR:AftLow 55.66667 1.51767366 3 54.30000 57.30000 54.85000 55.40000  
## BLK:AftHigh 53.07391 0.20654838 3 52.83588 53.20588 53.00793 53.17997  
## BLK:AftLow 49.10000 0.26457513 3 48.80000 49.30000 49.00000 49.20000  
## BRN:AftHigh 56.40223 0.16148596 3 56.22012 56.52799 56.33934 56.45857  
## BRN:AftLow 53.53333 0.28867513 3 53.20000 53.70000 53.45000 53.70000  
## WHT:AftHigh 53.45783 1.26728799 3 51.99558 54.23781 53.06784 54.14010  
## WHT:AftLow 48.70000 2.59807621 3 45.70000 50.20000 47.95000 50.20000  
## WT/BLK:AftHigh 57.25598 0.61504202 3 56.66068 57.88903 56.93945 57.21823  
## WT/BLK:AftLow 54.80000 1.00000000 3 53.80000 55.80000 54.30000 54.80000  
## WT/BR:AftHigh 56.20751 0.06792927 3 56.15540 56.28434 56.16909 56.18278  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 58.00445  
## BL/BR:AftLow 56.35000  
## BLK:AftHigh 53.19293  
## BLK:AftLow 49.25000  
## BRN:AftHigh 56.49328  
## BRN:AftLow 53.70000  
## WHT:AftHigh 54.18896  
## WHT:AftLow 50.20000  
## WT/BLK:AftHigh 57.55363  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 56.23356  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.64887 a  
## WT/BLK:AftHigh 57.25598 a  
## BRN:AftHigh 56.40223 ab  
## WT/BR:AftHigh 56.20751 abc  
## BL/BR:AftLow 55.66667 abcd  
## WT/BLK:AftLow 54.80000 abcd  
## BRN:AftLow 53.53333 bcd  
## WHT:AftHigh 53.45783 bcd  
## WT/BR:AftLow 53.16667 cd  
## BLK:AftHigh 53.07391 d  
## BLK:AftLow 49.10000 e  
## WHT:AftLow 48.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT68 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 324.83 64.965 32.2262 6.750e-10 \*\*\*  
## THIregime 1 93.77 93.769 46.5145 4.705e-07 \*\*\*  
## Colour:THIregime 5 20.16 4.031 1.9997 0.115   
## Residuals 24 48.38 2.016   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.01591   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.07992 1.565247 6 54.3 58.63387  
## BLK 53.88502 1.925770 6 50.4 55.74969  
## BRN 51.71405 3.339771 6 47.7 56.04952  
## WHT 48.41459 3.437792 6 44.2 52.23806  
## WT/BLK 55.79504 1.202115 6 54.6 56.97430  
## WT/BR 56.26149 1.373072 6 54.6 57.89425  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.534573   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.07992 a  
## WT/BR 56.26149 ab  
## WT/BLK 55.79504 ab  
## BLK 53.88502 bc  
## BRN 51.71405 c  
## WHT 48.41459 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.01591   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.47226 2.503868 18 50.60658 58.63387  
## AftLow 52.24444 4.107271 18 44.20000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9767933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.47226 a  
## AftLow 52.24444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.01591 24 53.85835 2.636226 4.17995  
##   
## $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 58.09317 0.80101695 3 57.17293 58.63387 57.82282 58.47271  
## BL/BR:AftLow 56.06667 1.55026879 3 54.30000 57.20000 55.50000 56.70000  
## BLK:AftHigh 55.03670 1.08121348 3 53.79265 55.74969 54.68020 55.56776  
## BLK:AftLow 52.73333 2.03059925 3 50.40000 54.10000 52.05000 53.70000  
## BRN:AftHigh 54.09477 1.69657382 3 53.00526 56.04952 53.11740 53.22953  
## BRN:AftLow 49.33333 2.82901632 3 47.70000 52.60000 47.70000 47.70000  
## WHT:AftHigh 51.32919 0.83153243 3 50.60658 52.23806 50.87476 51.14293  
## WHT:AftLow 45.50000 1.83575598 3 44.20000 47.60000 44.45000 44.70000  
## WT/BLK:AftHigh 56.89009 0.07306037 3 56.84363 56.97430 56.84798 56.85234  
## WT/BLK:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## WT/BR:AftHigh 57.38964 0.43794404 3 57.10871 57.89425 57.13733 57.16596  
## WT/BR:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 58.55329  
## BL/BR:AftLow 56.95000  
## BLK:AftHigh 55.65873  
## BLK:AftLow 53.90000  
## BRN:AftHigh 54.63953  
## BRN:AftLow 50.15000  
## WHT:AftHigh 51.69049  
## WHT:AftLow 46.15000  
## WT/BLK:AftHigh 56.91332  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 57.53010  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.09317 a  
## WT/BR:AftHigh 57.38964 a  
## WT/BLK:AftHigh 56.89009 ab  
## BL/BR:AftLow 56.06667 ab  
## WT/BR:AftLow 55.13333 abc  
## BLK:AftHigh 55.03670 abc  
## WT/BLK:AftLow 54.70000 abc  
## BRN:AftHigh 54.09477 abc  
## BLK:AftLow 52.73333 bcd  
## WHT:AftHigh 51.32919 cd  
## BRN:AftLow 49.33333 de  
## WHT:AftLow 45.50000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT69 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 403.03 80.605 211.268 < 2.2e-16 \*\*\*  
## THIregime 1 101.84 101.843 266.932 1.666e-14 \*\*\*  
## Colour:THIregime 5 20.26 4.052 10.619 1.807e-05 \*\*\*  
## Residuals 24 9.16 0.382   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3815302   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.50994 1.264363 6 55.3 58.91352  
## BLK 49.56736 2.538087 6 46.3 52.20528  
## BRN 55.01479 1.477553 6 53.6 56.39933  
## WHT 48.55323 3.318152 6 45.2 51.90411  
## WT/BLK 56.32464 1.373545 6 54.7 57.81062  
## WT/BR 54.45510 1.769490 6 52.5 56.34706  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.10264   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.50994 a  
## WT/BLK 56.32464 b  
## BRN 55.01479 c  
## WT/BR 54.45510 c  
## BLK 49.56736 d  
## WHT 48.55323 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3815302   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.25279 2.728969 18 51.14506 58.91352  
## AftLow 51.88889 4.241516 18 45.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4249438   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.25279 a  
## AftLow 51.88889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3815302 24 53.57084 1.153018 1.818444  
##   
## $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 58.21987 0.85703209 3 57.26179 58.91352 57.87305 58.48432  
## BL/BR:AftLow 56.80000 1.32287566 3 55.30000 57.80000 56.30000 57.30000  
## BLK:AftHigh 51.80138 0.57341463 3 51.14506 52.20528 51.59943 52.05379  
## BLK:AftLow 47.33333 0.89628864 3 46.30000 47.90000 47.05000 47.80000  
## BRN:AftHigh 56.36291 0.04783917 3 56.30873 56.39933 56.34470 56.38066  
## BRN:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WHT:AftHigh 51.57312 0.28757559 3 51.38448 51.90411 51.40763 51.43078  
## WHT:AftLow 45.53333 0.28867513 3 45.20000 45.70000 45.45000 45.70000  
## WT/BLK:AftHigh 57.54927 0.23953123 3 57.34019 57.81062 57.41860 57.49700  
## WT/BLK:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 56.01021 0.30445167 3 55.75467 56.34706 55.84178 55.92890  
## WT/BR:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 58.69892  
## BL/BR:AftLow 57.55000  
## BLK:AftHigh 52.12954  
## BLK:AftLow 47.85000  
## BRN:AftHigh 56.39000  
## BRN:AftLow 53.70000  
## WHT:AftHigh 51.66744  
## WHT:AftLow 45.70000  
## WT/BLK:AftHigh 57.65381  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 56.13798  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.21987 a  
## WT/BLK:AftHigh 57.54927 ab  
## BL/BR:AftLow 56.80000 abc  
## BRN:AftHigh 56.36291 bc  
## WT/BR:AftHigh 56.01021 bc  
## WT/BLK:AftLow 55.10000 cd  
## BRN:AftLow 53.66667 de  
## WT/BR:AftLow 52.90000 ef  
## BLK:AftHigh 51.80138 f  
## WHT:AftHigh 51.57312 f  
## BLK:AftLow 47.33333 g  
## WHT:AftLow 45.53333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT70 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 219.361 43.872 23.9394 1.329e-08 \*\*\*  
## THIregime 1 73.837 73.837 40.2900 1.459e-06 \*\*\*  
## Colour:THIregime 5 15.377 3.075 1.6781 0.1782   
## Residuals 24 43.983 1.833   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.832635   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.20893 1.033901 6 55.2 57.23565  
## BLK 54.45990 1.035972 6 53.2 55.49938  
## BRN 53.36137 3.121357 6 47.6 56.18278  
## WHT 48.66561 3.340820 6 44.8 52.76983  
## WT/BLK 55.50923 1.154823 6 54.3 56.69988  
## WT/BR 54.72115 1.503194 6 52.6 56.26492  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.416613   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.20893 a  
## WT/BLK 55.50923 ab  
## WT/BR 54.72115 ab  
## BLK 54.45990 ab  
## BRN 53.36137 b  
## WHT 48.66561 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.832635   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.25317 2.047993 18 50.67286 57.23565  
## AftLow 52.38889 3.493000 18 44.80000 55.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9313332   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.25317 a  
## AftLow 52.38889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.832635 24 53.82103 2.515278 3.985414  
##   
## $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 57.15120 0.07389361 3 57.09844 57.23565 57.10897 57.11949  
## BL/BR:AftLow 55.26667 0.05773503 3 55.20000 55.30000 55.25000 55.30000  
## BLK:AftHigh 55.38646 0.15557672 3 55.20900 55.49938 55.33000 55.45100  
## BLK:AftLow 53.53333 0.28867513 3 53.20000 53.70000 53.45000 53.70000  
## BRN:AftHigh 54.95607 1.90909315 3 52.75651 56.18278 54.34271 55.92890  
## BRN:AftLow 51.76667 3.61708907 3 47.60000 54.10000 50.60000 53.60000  
## WHT:AftHigh 51.46455 1.13892840 3 50.67286 52.76983 50.81191 50.95095  
## WHT:AftLow 45.86667 1.76162803 3 44.80000 47.90000 44.85000 44.90000  
## WT/BLK:AftHigh 56.55178 0.22342495 3 56.29479 56.69988 56.47774 56.66068  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 56.00896 0.38761340 3 55.56301 56.26492 55.88099 56.19896  
## WT/BR:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 57.17757  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 55.47519  
## BLK:AftLow 53.70000  
## BRN:AftHigh 56.05584  
## BRN:AftLow 53.85000  
## WHT:AftHigh 51.86039  
## WHT:AftLow 46.40000  
## WT/BLK:AftHigh 56.68028  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 56.23194  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.15120 a  
## WT/BLK:AftHigh 56.55178 a  
## WT/BR:AftHigh 56.00896 a  
## BLK:AftHigh 55.38646 ab  
## BL/BR:AftLow 55.26667 ab  
## BRN:AftHigh 54.95607 ab  
## WT/BLK:AftLow 54.46667 ab  
## BLK:AftLow 53.53333 ab  
## WT/BR:AftLow 53.43333 ab  
## BRN:AftLow 51.76667 b  
## WHT:AftHigh 51.46455 b  
## WHT:AftLow 45.86667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT71 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 128.523 25.705 21.863 3.200e-08 \*\*\*  
## THIregime 1 72.721 72.721 61.852 4.263e-08 \*\*\*  
## Colour:THIregime 5 7.584 1.517 1.290 0.3009   
## Residuals 24 28.217 1.176   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.175727   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.20233 0.808266 6 55.9 58.02623  
## BLK 51.34559 3.010909 6 47.7 55.18716  
## BRN 53.91215 1.636617 6 52.1 55.57507  
## WHT 52.33115 2.026248 6 50.2 54.45881  
## WT/BLK 55.11984 1.395872 6 53.1 56.72602  
## WT/BR 53.68328 1.803592 6 51.3 55.82436  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.935631   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.20233 a  
## WT/BLK 55.11984 b  
## BRN 53.91215 bc  
## WT/BR 53.68328 bc  
## WHT 52.33115 cd  
## BLK 51.34559 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.175727   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.35367 1.600855 18 52.3859 58.02623  
## AftLow 52.51111 2.665220 18 47.7000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7459683   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.35367 a  
## AftLow 52.51111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.175727 24 53.93239 2.010498 3.19219  
##   
## $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 57.80467 0.2341317 3 57.55972 58.02623 57.69388 57.82804  
## BL/BR:AftLow 56.60000 0.7000000 3 55.90000 57.30000 56.25000 56.60000  
## BLK:AftHigh 53.35784 1.5852732 3 52.38590 55.18716 52.44318 52.50046  
## BLK:AftLow 49.33333 2.8290163 3 47.70000 52.60000 47.70000 47.70000  
## BRN:AftHigh 55.39097 0.2055150 3 55.16924 55.57507 55.29892 55.42860  
## BRN:AftLow 52.43333 0.3055050 3 52.10000 52.70000 52.30000 52.50000  
## WHT:AftHigh 54.16230 0.2736675 3 53.91941 54.45881 54.01404 54.10867  
## WHT:AftLow 50.50000 0.3605551 3 50.20000 50.90000 50.30000 50.40000  
## WT/BLK:AftHigh 56.27301 0.5276315 3 55.69369 56.72602 56.04651 56.39933  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 55.13323 0.6016308 3 54.72669 55.82436 54.78767 54.84865  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 57.92714  
## BL/BR:AftLow 56.95000  
## BLK:AftHigh 53.84381  
## BLK:AftLow 50.15000  
## BRN:AftHigh 55.50184  
## BRN:AftLow 52.60000  
## WHT:AftHigh 54.28374  
## WHT:AftLow 50.65000  
## WT/BLK:AftHigh 56.56267  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 55.33651  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.80467 a  
## BL/BR:AftLow 56.60000 ab  
## WT/BLK:AftHigh 56.27301 abc  
## BRN:AftHigh 55.39097 abcd  
## WT/BR:AftHigh 55.13323 abcd  
## WHT:AftHigh 54.16230 bcd  
## WT/BLK:AftLow 53.96667 bcd  
## BLK:AftHigh 53.35784 cde  
## BRN:AftLow 52.43333 def  
## WT/BR:AftLow 52.23333 def  
## WHT:AftLow 50.50000 ef  
## BLK:AftLow 49.33333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT72 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 241.677 48.335 24.0647 1.263e-08 \*\*\*  
## THIregime 1 71.986 71.986 35.8396 3.521e-06 \*\*\*  
## Colour:THIregime 5 16.042 3.208 1.5973 0.1989   
## Residuals 24 48.205 2.009   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.008556   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.10858 3.1499397 6 49.5 57.93839  
## BLK 54.29725 0.6920248 6 53.6 54.94765  
## BRN 50.65349 2.3698041 6 48.1 52.90471  
## WHT 48.55594 2.8924636 6 44.6 51.65583  
## WT/BLK 54.80495 1.1399962 6 53.7 55.91583  
## WT/BR 55.39757 1.2504426 6 53.6 56.65023  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.529945   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.39757 a  
## BL/BR 55.10858 a  
## WT/BLK 54.80495 a  
## BLK 54.29725 a  
## BRN 50.65349 b  
## WHT 48.55594 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.008556   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.55037 2.201770 18 50.08918 57.93839  
## AftLow 51.72222 3.625977 18 44.60000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9750099   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.55037 a  
## AftLow 51.72222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.008556 24 53.1363 2.66717 4.172318  
##   
## $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 56.21716 2.24242131 3 53.68129 57.93839 55.35654 57.03180  
## BL/BR:AftLow 54.00000 4.01123422 3 49.50000 57.20000 52.40000 55.30000  
## BLK:AftHigh 54.92783 0.03195090 3 54.89097 54.94765 54.91791 54.94486  
## BLK:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## BRN:AftHigh 52.80698 0.08572833 3 52.74445 52.90471 52.75812 52.77179  
## BRN:AftLow 48.50000 0.34641016 3 48.10000 48.70000 48.40000 48.70000  
## WHT:AftHigh 51.04521 0.83850044 3 50.08918 51.65583 50.73991 51.39063  
## WHT:AftLow 46.06667 1.27410099 3 44.60000 46.90000 45.65000 46.70000  
## WT/BLK:AftHigh 55.84324 0.10743408 3 55.71982 55.91583 55.80694 55.89405  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 56.46181 0.31287269 3 56.10064 56.65023 56.36759 56.63455  
## WT/BR:AftLow 54.33333 0.64291005 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 57.48509  
## BL/BR:AftLow 56.25000  
## BLK:AftHigh 54.94625  
## BLK:AftLow 53.70000  
## BRN:AftHigh 52.83825  
## BRN:AftLow 48.70000  
## WHT:AftHigh 51.52323  
## WHT:AftLow 46.80000  
## WT/BLK:AftHigh 55.90494  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 56.64239  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.46181 a  
## BL/BR:AftHigh 56.21716 a  
## WT/BLK:AftHigh 55.84324 a  
## BLK:AftHigh 54.92783 ab  
## WT/BR:AftLow 54.33333 ab  
## BL/BR:AftLow 54.00000 ab  
## WT/BLK:AftLow 53.76667 ab  
## BLK:AftLow 53.66667 ab  
## BRN:AftHigh 52.80698 ab  
## WHT:AftHigh 51.04521 bc  
## BRN:AftLow 48.50000 cd  
## WHT:AftLow 46.06667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT73 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 412.40 82.480 137.8106 < 2.2e-16 \*\*\*  
## THIregime 1 110.02 110.022 183.8295 9.591e-13 \*\*\*  
## Colour:THIregime 5 18.38 3.676 6.1415 0.0008467 \*\*\*  
## Residuals 24 14.36 0.599   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5985008   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.52557 2.7069523 6 50.3 57.03310  
## BLK 49.53266 2.3886795 6 46.9 51.78139  
## BRN 54.64348 1.5627205 6 52.6 56.19398  
## WHT 48.84812 3.2096713 6 45.3 52.34187  
## WT/BLK 55.67257 1.4138478 6 53.7 57.13111  
## WT/BR 58.53340 0.8811763 6 57.3 59.57909  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.381025   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.53340 a  
## WT/BLK 55.67257 b  
## BRN 54.64348 bc  
## BL/BR 53.52557 c  
## BLK 49.53266 d  
## WHT 48.84812 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5985008   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.20749 2.848772 18 51.15491 59.57909  
## AftLow 51.71111 4.250798 18 45.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5322301   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.20749 a  
## AftLow 51.71111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5985008 24 53.4593 1.447135 2.277549  
##   
## $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 55.65114 1.2061566 3 54.81032 57.03310 54.96016 55.11000  
## BL/BR:AftLow 51.40000 1.8193405 3 50.30000 53.50000 50.35000 50.40000  
## BLK:AftHigh 51.69866 0.1284658 3 51.55067 51.78139 51.65730 51.76393  
## BLK:AftLow 47.36667 0.4163332 3 46.90000 47.70000 47.20000 47.50000  
## BRN:AftHigh 56.02030 0.2916104 3 55.68363 56.19398 55.93346 56.18328  
## BRN:AftLow 53.26667 0.5773503 3 52.60000 53.60000 53.10000 53.60000  
## WHT:AftHigh 51.72958 0.5943760 3 51.15491 52.34187 51.42343 51.69196  
## WHT:AftLow 45.96667 0.7023769 3 45.30000 46.70000 45.60000 45.90000  
## WT/BLK:AftHigh 56.87847 0.4375824 3 56.37320 57.13111 56.75215 57.13111  
## WT/BLK:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 59.26680 0.2784988 3 59.04419 59.57909 59.11065 59.17711  
## WT/BR:AftLow 57.80000 0.5000000 3 57.30000 58.30000 57.55000 57.80000  
## Q75  
## BL/BR:AftHigh 56.07155  
## BL/BR:AftLow 51.95000  
## BLK:AftHigh 51.77266  
## BLK:AftLow 47.60000  
## BRN:AftHigh 56.18863  
## BRN:AftLow 53.60000  
## WHT:AftHigh 52.01691  
## WHT:AftLow 46.30000  
## WT/BLK:AftHigh 57.13111  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 59.37810  
## WT/BR:AftLow 58.05000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 59.26680 a  
## WT/BR:AftLow 57.80000 ab  
## WT/BLK:AftHigh 56.87847 b  
## BRN:AftHigh 56.02030 bc  
## BL/BR:AftHigh 55.65114 bc  
## WT/BLK:AftLow 54.46667 cd  
## BRN:AftLow 53.26667 de  
## WHT:AftHigh 51.72958 e  
## BLK:AftHigh 51.69866 e  
## BL/BR:AftLow 51.40000 e  
## BLK:AftLow 47.36667 f  
## WHT:AftLow 45.96667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT74 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 248.345 49.669 110.9471 8.848e-16 \*\*\*  
## THIregime 1 104.764 104.764 234.0150 7.073e-14 \*\*\*  
## Colour:THIregime 5 4.121 0.824 1.8412 0.1427   
## Residuals 24 10.744 0.448   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4476816   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.08751 2.132486 6 50.4 55.34231  
## BLK 50.40580 1.952955 6 48.3 52.31752  
## BRN 50.86883 2.339165 6 47.3 53.19966  
## WHT 49.49428 2.332855 6 47.2 51.65909  
## WT/BLK 55.87433 1.681108 6 53.6 57.99357  
## WT/BR 56.20468 1.350705 6 54.7 57.75835  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.194411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.20468 a  
## WT/BLK 55.87433 a  
## BL/BR 53.08751 b  
## BRN 50.86883 c  
## BLK 50.40580 cd  
## WHT 49.49428 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4476816   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.36181 2.417162 18 51.57307 57.99357  
## AftLow 50.95000 3.104882 18 47.20000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4603113   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.36181 a  
## AftLow 50.95000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4476816 24 52.65591 1.270684 1.969791  
##   
## $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 54.97502 0.33264996 3 54.69402 55.34231 54.79137 54.88873  
## BL/BR:AftLow 51.20000 0.75498344 3 50.40000 51.90000 50.85000 51.30000  
## BLK:AftHigh 52.17827 0.12969331 3 52.06092 52.31752 52.10864 52.15637  
## BLK:AftLow 48.63333 0.30550505 3 48.30000 48.90000 48.50000 48.70000  
## BRN:AftHigh 52.80433 0.66136559 3 52.04082 53.19966 52.60667 53.17253  
## BRN:AftLow 48.93333 1.41539158 3 47.30000 49.80000 48.50000 49.70000  
## WHT:AftHigh 51.62190 0.04417867 3 51.57307 51.65909 51.60330 51.63354  
## WHT:AftLow 47.36667 0.15275252 3 47.20000 47.50000 47.30000 47.40000  
## WT/BLK:AftHigh 57.21532 0.72607095 3 56.55614 57.99357 56.82620 57.09626  
## WT/BLK:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 57.37603 0.33391740 3 57.14156 57.75835 57.18487 57.22818  
## WT/BR:AftLow 55.03333 0.57735027 3 54.70000 55.70000 54.70000 54.70000  
## Q75  
## BL/BR:AftHigh 55.11552  
## BL/BR:AftLow 51.60000  
## BLK:AftHigh 52.23694  
## BLK:AftLow 48.80000  
## BRN:AftHigh 53.18609  
## BRN:AftLow 49.75000  
## WHT:AftHigh 51.64632  
## WHT:AftLow 47.45000  
## WT/BLK:AftHigh 57.54491  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.49327  
## WT/BR:AftLow 55.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.37603 a  
## WT/BLK:AftHigh 57.21532 a  
## WT/BR:AftLow 55.03333 b  
## BL/BR:AftHigh 54.97502 b  
## WT/BLK:AftLow 54.53333 bc  
## BRN:AftHigh 52.80433 cd  
## BLK:AftHigh 52.17827 d  
## WHT:AftHigh 51.62190 d  
## BL/BR:AftLow 51.20000 d  
## BRN:AftLow 48.93333 e  
## BLK:AftLow 48.63333 e  
## WHT:AftLow 47.36667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT75 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.461 36.692 24.7842 9.463e-09 \*\*\*  
## THIregime 1 90.693 90.693 61.2599 4.638e-08 \*\*\*  
## Colour:THIregime 5 7.532 1.506 1.0175 0.4293   
## Residuals 24 35.531 1.480   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.480469   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.52876 2.094130 6 52.2 57.00044  
## BLK 52.31689 1.931166 6 50.2 54.19652  
## BRN 55.03400 1.522242 6 53.4 56.63455  
## WHT 50.98831 3.631336 6 44.5 54.60763  
## WT/BLK 55.84311 1.448774 6 54.2 57.23565  
## WT/BR 57.87890 1.016723 6 56.8 58.84557  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.172045   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.87890 a  
## WT/BLK 55.84311 ab  
## BRN 55.03400 b  
## BL/BR 54.52876 b  
## BLK 52.31689 c  
## WHT 50.98831 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.480469   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.01888 1.999404 18 51.2736 58.84557  
## AftLow 52.84444 3.054066 18 44.5000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8370795   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.01888 a  
## AftLow 52.84444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.480469 24 54.43166 2.235363 3.582078  
##   
## $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 56.35751 0.56603849 3 55.93413 57.00044 56.03605 56.13798  
## BL/BR:AftLow 52.70000 0.78102497 3 52.20000 53.60000 52.25000 52.30000  
## BLK:AftHigh 54.06711 0.17424180 3 53.86899 54.19652 54.00240 54.13581  
## BLK:AftLow 50.56667 0.32145503 3 50.20000 50.80000 50.45000 50.70000  
## BRN:AftHigh 56.40134 0.20221112 3 56.27469 56.63455 56.28474 56.29479  
## BRN:AftLow 53.66667 0.37859389 3 53.40000 54.10000 53.45000 53.50000  
## WHT:AftHigh 53.34329 1.80703596 3 51.27360 54.60763 52.71112 54.14865  
## WHT:AftLow 48.63333 3.61432336 3 44.50000 51.20000 47.35000 50.20000  
## WT/BLK:AftHigh 57.15289 0.13219075 3 57.00044 57.23565 57.11151 57.22258  
## WT/BLK:AftLow 54.53333 0.28867513 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 58.79114 0.06677022 3 58.71663 58.84557 58.76393 58.81122  
## WT/BR:AftLow 56.96667 0.28867513 3 56.80000 57.30000 56.80000 56.80000  
## Q75  
## BL/BR:AftHigh 56.56921  
## BL/BR:AftLow 52.95000  
## BLK:AftHigh 54.16617  
## BLK:AftLow 50.75000  
## BRN:AftHigh 56.46467  
## BRN:AftLow 53.80000  
## WHT:AftHigh 54.37814  
## WHT:AftLow 50.70000  
## WT/BLK:AftHigh 57.22912  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.82839  
## WT/BR:AftLow 57.05000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 58.79114 a  
## WT/BLK:AftHigh 57.15289 ab  
## WT/BR:AftLow 56.96667 ab  
## BRN:AftHigh 56.40134 abc  
## BL/BR:AftHigh 56.35751 abc  
## WT/BLK:AftLow 54.53333 bcd  
## BLK:AftHigh 54.06711 bcde  
## BRN:AftLow 53.66667 bcde  
## WHT:AftHigh 53.34329 cde  
## BL/BR:AftLow 52.70000 de  
## BLK:AftLow 50.56667 ef  
## WHT: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 5 281.084 56.217 71.0924 1.358e-13 \*\*\*  
## THIregime 1 97.238 97.238 122.9689 6.290e-11 \*\*\*  
## Colour:THIregime 5 15.209 3.042 3.8468 0.0106 \*   
## Residuals 24 18.978 0.791   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7907556   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.28348 1.923568 6 53.7 58.54893  
## BLK 54.50048 1.433623 6 52.5 55.96375  
## BRN 54.42264 2.158266 6 51.5 56.92605  
## WHT 49.55691 3.285706 6 45.9 53.06058  
## WT/BLK 56.60900 1.559057 6 54.3 58.33332  
## WT/BR 58.52177 1.626387 6 55.6 60.10005  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.587414   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.52177 a  
## WT/BLK 56.60900 b  
## BL/BR 56.28348 b  
## BLK 54.50048 c  
## BRN 54.42264 c  
## WHT 49.55691 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7907556   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.62587 2.335258 18 51.91573 60.10005  
## AftLow 53.33889 3.618277 18 45.90000 58.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.61177   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.62587 a  
## AftLow 53.33889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7907556 24 54.98238 1.617326 2.617921  
##   
## $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 57.90030 0.6361263 3 57.27747 58.54893 57.57599 57.87451  
## BL/BR:AftLow 54.66667 1.0016653 3 53.70000 55.70000 54.15000 54.60000  
## BLK:AftHigh 55.73429 0.3577221 3 55.32211 55.96375 55.61957 55.91702  
## BLK:AftLow 53.26667 0.6658328 3 52.50000 53.70000 53.05000 53.60000  
## BRN:AftHigh 56.24527 0.6850441 3 55.55604 56.92605 55.90488 56.25372  
## BRN:AftLow 52.60000 1.1000000 3 51.50000 53.70000 52.05000 52.60000  
## WHT:AftHigh 52.51383 0.5741535 3 51.91573 53.06058 52.24045 52.56517  
## WHT:AftLow 46.60000 0.6557439 3 45.90000 47.20000 46.30000 46.70000  
## WT/BLK:AftHigh 57.88467 0.5756131 3 57.23565 58.33332 57.66034 58.08504  
## WT/BLK:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 59.47687 0.9554285 3 58.37688 60.10005 59.16528 59.95369  
## WT/BR:AftLow 57.56667 1.7214335 3 55.60000 58.80000 56.95000 58.30000  
## Q75  
## BL/BR:AftHigh 58.21172  
## BL/BR:AftLow 55.15000  
## BLK:AftHigh 55.94038  
## BLK:AftLow 53.65000  
## BRN:AftHigh 56.58989  
## BRN:AftLow 53.15000  
## WHT:AftHigh 52.81288  
## WHT:AftLow 46.95000  
## WT/BLK:AftHigh 58.20918  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 60.02687  
## WT/BR:AftLow 58.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 59.47687 a  
## BL/BR:AftHigh 57.90030 ab  
## WT/BLK:AftHigh 57.88467 ab  
## WT/BR:AftLow 57.56667 ab  
## BRN:AftHigh 56.24527 bc  
## BLK:AftHigh 55.73429 bcd  
## WT/BLK:AftLow 55.33333 bcd  
## BL/BR:AftLow 54.66667 cde  
## BLK:AftLow 53.26667 de  
## BRN:AftLow 52.60000 e  
## WHT:AftHigh 52.51383 e  
## WHT:AftLow 46.60000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT77 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 321.61 64.323 73.529 9.319e-14 \*\*\*  
## THIregime 1 70.33 70.333 80.400 3.956e-09 \*\*\*  
## Colour:THIregime 5 18.09 3.619 4.137 0.007498 \*\*   
## Residuals 24 20.99 0.875   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8747888   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.02961 1.6333083 6 54.4 58.90248  
## BLK 53.96761 1.1878039 6 51.9 55.16623  
## BRN 49.16131 2.8900955 6 46.2 52.11319  
## WHT 49.93818 2.4393454 6 47.1 52.77733  
## WT/BLK 54.24593 1.6345425 6 51.6 55.96375  
## WT/BR 56.47720 0.9117648 6 55.2 57.45220  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.669632   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.02961 a  
## WT/BR 56.47720 a  
## WT/BLK 54.24593 b  
## BLK 53.96761 b  
## WHT 49.93818 c  
## BRN 49.16131 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8747888   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.86772 2.464902 18 51.49466 58.90248  
## AftLow 52.07222 3.891288 18 46.20000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6434557   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.86772 a  
## AftLow 52.07222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8747888 24 53.46997 1.749209 2.753513  
##   
## $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 57.85921 1.0837445 3 56.73908 58.90248 57.33758 57.93607  
## BL/BR:AftLow 56.20000 1.8520259 3 54.40000 58.10000 55.25000 56.10000  
## BLK:AftHigh 54.80189 0.5438809 3 54.17672 55.16623 54.61972 55.06271  
## BLK:AftLow 53.13333 1.0692677 3 51.90000 53.80000 52.80000 53.70000  
## BRN:AftHigh 51.78928 0.2820460 3 51.59796 52.11319 51.62733 51.65670  
## BRN:AftLow 46.53333 0.2886751 3 46.20000 46.70000 46.45000 46.70000  
## WHT:AftHigh 52.00970 0.6776139 3 51.49466 52.77733 51.62588 51.75710  
## WHT:AftLow 47.86667 1.2423097 3 47.10000 49.30000 47.15000 47.20000  
## WT/BLK:AftHigh 55.49186 0.7431559 3 54.63522 55.96375 55.25592 55.87663  
## WT/BLK:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 57.25440 0.2369941 3 56.99172 57.45220 57.15550 57.31928  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 58.41928  
## BL/BR:AftLow 57.10000  
## BLK:AftHigh 55.11447  
## BLK:AftLow 53.75000  
## BRN:AftHigh 51.88494  
## BRN:AftLow 46.70000  
## WHT:AftHigh 52.26721  
## WHT:AftLow 48.25000  
## WT/BLK:AftHigh 55.92019  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 57.38574  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.85921 a  
## WT/BR:AftHigh 57.25440 ab  
## BL/BR:AftLow 56.20000 ab  
## WT/BR:AftLow 55.70000 abc  
## WT/BLK:AftHigh 55.49186 abc  
## BLK:AftHigh 54.80189 bc  
## BLK:AftLow 53.13333 cd  
## WT/BLK:AftLow 53.00000 cd  
## WHT:AftHigh 52.00970 d  
## BRN:AftHigh 51.78928 d  
## WHT:AftLow 47.86667 e  
## BRN:AftLow 46.53333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT78 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 65.249 13.050 8.9085 6.861e-05 \*\*\*  
## THIregime 1 56.984 56.984 38.9006 1.908e-06 \*\*\*  
## Colour:THIregime 5 4.913 0.983 0.6708 0.6494   
## Residuals 24 35.157 1.465   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.464864   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.57814 2.560843 6 49.5 55.73550  
## BLK 52.00661 1.447497 6 50.2 53.74720  
## BRN 50.69476 1.759439 6 48.8 52.41073  
## WHT 52.33256 1.358369 6 50.2 53.82830  
## WT/BLK 51.01879 1.934759 6 49.1 53.15859  
## WT/BR 54.85125 1.439997 6 52.8 56.69802  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.160567   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 54.85125 a  
## BL/BR 52.57814 b  
## WHT 52.33256 b  
## BLK 52.00661 b  
## WT/BLK 51.01879 b  
## BRN 50.69476 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.464864   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.50515 1.263078 18 52.06092 56.69802  
## AftLow 50.98889 2.144731 18 48.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8326561   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.50515 a  
## AftLow 50.98889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.464864 24 52.24702 2.316526 3.56315  
##   
## $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 53.92294 1.5703365 3 52.97274 55.73550 53.01666 53.06058  
## BL/BR:AftLow 51.23333 2.9160476 3 49.50000 54.60000 49.55000 49.60000  
## BLK:AftHigh 53.17988 0.4950523 3 52.83547 53.74720 52.89622 52.95698  
## BLK:AftLow 50.83333 0.9291573 3 50.20000 51.90000 50.30000 50.40000  
## BRN:AftHigh 52.28953 0.1981015 3 52.06092 52.41073 52.22893 52.39694  
## BRN:AftLow 49.10000 0.2645751 3 48.80000 49.30000 49.00000 49.20000  
## WHT:AftHigh 53.39845 0.5110759 3 52.83335 53.82830 53.18353 53.53370  
## WHT:AftLow 51.26667 0.9712535 3 50.20000 52.10000 50.85000 51.50000  
## WT/BLK:AftHigh 52.77092 0.3536282 3 52.46601 53.15859 52.57709 52.68816  
## WT/BLK:AftLow 49.26667 0.1527525 3 49.10000 49.40000 49.20000 49.30000  
## WT/BR:AftHigh 55.46917 1.0840523 3 54.64829 56.69802 54.85475 55.06122  
## WT/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 54.39804  
## BL/BR:AftLow 52.10000  
## BLK:AftHigh 53.35209  
## BLK:AftLow 51.15000  
## BRN:AftHigh 52.40383  
## BRN:AftLow 49.25000  
## WHT:AftHigh 53.68100  
## WHT:AftLow 51.80000  
## WT/BLK:AftHigh 52.92338  
## WT/BLK:AftLow 49.35000  
## WT/BR:AftHigh 55.87962  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 55.46917 a  
## WT/BR:AftLow 54.23333 ab  
## BL/BR:AftHigh 53.92294 ab  
## WHT:AftHigh 53.39845 ab  
## BLK:AftHigh 53.17988 ab  
## WT/BLK:AftHigh 52.77092 abc  
## BRN:AftHigh 52.28953 abcd  
## WHT:AftLow 51.26667 bcd  
## BL/BR:AftLow 51.23333 bcd  
## BLK:AftLow 50.83333 bcd  
## WT/BLK:AftLow 49.26667 cd  
## BRN:AftLow 49.10000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT79 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 137.551 27.510 9.6943 3.652e-05 \*\*\*  
## THIregime 1 70.239 70.239 24.7514 4.428e-05 \*\*\*  
## Colour:THIregime 5 10.488 2.098 0.7392 0.6016   
## Residuals 24 68.106 2.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837763   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.48766 1.978694 6 49.3 53.75316  
## BLK 54.16998 0.836376 6 53.1 55.04031  
## BRN 53.82294 1.882612 6 50.4 55.61528  
## WHT 48.93304 3.673536 6 44.3 53.43156  
## WT/BLK 52.91670 2.199943 6 50.3 56.00731  
## WT/BR 54.65055 1.809160 6 51.6 56.68159  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.007165   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 54.65055 a  
## BLK 54.16998 ab  
## BRN 53.82294 ab  
## WT/BLK 52.91670 ab  
## BL/BR 51.48766 bc  
## WHT 48.93304 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837763   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.06028 1.773760 18 50.15153 56.68159  
## AftLow 51.26667 3.093256 18 44.30000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.158925   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.06028 a  
## AftLow 51.26667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.837763 24 52.66347 3.198737 4.959336  
##   
## $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 53.24198 0.4602063 3 52.86065 53.75316 52.98639 53.11213  
## BL/BR:AftLow 49.73333 0.5859465 3 49.30000 50.40000 49.40000 49.50000  
## BLK:AftHigh 54.90662 0.1937860 3 54.68438 55.04031 54.83977 54.99517  
## BLK:AftLow 53.43333 0.2886751 3 53.10000 53.60000 53.35000 53.60000  
## BRN:AftHigh 54.91254 1.0842205 3 53.66387 55.61528 54.56117 55.45847  
## BRN:AftLow 52.73333 2.0305993 3 50.40000 54.10000 52.05000 53.70000  
## WHT:AftHigh 51.26607 1.8756326 3 50.15153 53.43156 50.18333 50.21514  
## WHT:AftLow 46.60000 3.7269290 3 44.30000 50.90000 44.45000 44.60000  
## WT/BLK:AftHigh 54.43340 1.3741348 3 53.47221 56.00731 53.64644 53.82068  
## WT/BLK:AftLow 51.40000 1.8193405 3 50.30000 53.50000 50.35000 50.40000  
## WT/BR:AftHigh 55.60109 1.1234050 3 54.43921 56.68159 55.06084 55.68248  
## WT/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 53.43264  
## BL/BR:AftLow 49.95000  
## BLK:AftHigh 55.01774  
## BLK:AftLow 53.60000  
## BRN:AftHigh 55.53688  
## BRN:AftLow 53.90000  
## WHT:AftHigh 51.82335  
## WHT:AftLow 47.75000  
## WT/BLK:AftHigh 54.91399  
## WT/BLK:AftLow 51.95000  
## WT/BR:AftHigh 56.18204  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 55.60109 a  
## BRN:AftHigh 54.91254 a  
## BLK:AftHigh 54.90662 a  
## WT/BLK:AftHigh 54.43340 ab  
## WT/BR:AftLow 53.70000 ab  
## BLK:AftLow 53.43333 ab  
## BL/BR:AftHigh 53.24198 ab  
## BRN:AftLow 52.73333 ab  
## WT/BLK:AftLow 51.40000 abc  
## WHT:AftHigh 51.26607 abc  
## BL/BR:AftLow 49.73333 bc  
## WHT:AftLow 46.60000 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT80 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 348.73 69.746 307.536 < 2.2e-16 \*\*\*  
## THIregime 1 82.93 82.928 365.661 4.947e-16 \*\*\*  
## Colour:THIregime 5 20.52 4.104 18.095 1.894e-07 \*\*\*  
## Residuals 24 5.44 0.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2267898   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.25429 1.3482139 6 53.5 56.60841  
## BLK 53.39828 0.7762967 6 52.5 54.15670  
## BRN 49.65619 2.6386897 6 46.3 52.45898  
## WHT 47.34241 2.8986887 6 44.6 50.17920  
## WT/BLK 52.78693 1.8131545 6 50.4 54.72669  
## WT/BR 56.36839 0.8396555 6 55.2 57.45966  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8501214   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36839 a  
## BL/BR 55.25429 b  
## BLK 53.39828 c  
## WT/BLK 52.78693 c  
## BRN 49.65619 d  
## WHT 47.34241 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2267898   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.9855 2.524073 18 49.74362 57.45966  
## AftLow 50.9500 3.958498 18 44.60000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3276263   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.9855 a  
## AftLow 50.9500 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2267898 24 52.46775 0.9076519 1.401997  
##   
## $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 56.44192 0.26362023 3 56.13798 56.60841 56.35868 56.57937  
## BL/BR:AftLow 54.06667 0.49328829 3 53.50000 54.40000 53.90000 54.30000  
## BLK:AftHigh 54.09656 0.06162757 3 54.03354 54.15670 54.06650 54.09945  
## BLK:AftLow 52.70000 0.20000000 3 52.50000 52.90000 52.60000 52.70000  
## BRN:AftHigh 51.97905 0.64526475 3 51.24551 52.45898 51.73909 52.23266  
## BRN:AftLow 47.33333 0.89628864 3 46.30000 47.90000 47.05000 47.80000  
## WHT:AftHigh 49.98481 0.22153140 3 49.74362 50.17920 49.88762 50.03161  
## WHT:AftLow 44.70000 0.10000000 3 44.60000 44.80000 44.65000 44.70000  
## WT/BLK:AftHigh 54.37387 0.30618131 3 54.17786 54.72669 54.19746 54.21706  
## WT/BLK:AftLow 51.20000 0.75498344 3 50.40000 51.90000 50.85000 51.30000  
## WT/BR:AftHigh 57.03678 0.46079008 3 56.54569 57.45966 56.82533 57.10498  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 56.59389  
## BL/BR:AftLow 54.35000  
## BLK:AftHigh 54.12807  
## BLK:AftLow 52.80000  
## BRN:AftHigh 52.34582  
## BRN:AftLow 47.85000  
## WHT:AftHigh 50.10541  
## WHT:AftLow 44.75000  
## WT/BLK:AftHigh 54.47187  
## WT/BLK:AftLow 51.60000  
## WT/BR:AftHigh 57.28232  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.03678 a  
## BL/BR:AftHigh 56.44192 a  
## WT/BR:AftLow 55.70000 ab  
## WT/BLK:AftHigh 54.37387 bc  
## BLK:AftHigh 54.09656 cd  
## BL/BR:AftLow 54.06667 cd  
## BLK:AftLow 52.70000 de  
## BRN:AftHigh 51.97905 ef  
## WT/BLK:AftLow 51.20000 fg  
## WHT:AftHigh 49.98481 g  
## BRN:AftLow 47.33333 h  
## WHT:AftLow 44.70000 i  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT81 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 389.41 77.881 254.162 < 2.2e-16 \*\*\*  
## THIregime 1 110.40 110.396 360.270 5.849e-16 \*\*\*  
## Colour:THIregime 5 21.96 4.393 14.335 1.516e-06 \*\*\*  
## Residuals 24 7.35 0.306   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3064242   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.89344 1.273040 6 54.4 57.34019  
## BLK 48.94698 2.546023 6 46.3 51.52080  
## BRN 54.89660 1.507868 6 53.2 56.37521  
## WHT 47.74353 3.522451 6 44.2 51.03839  
## WT/BLK 54.24258 1.819427 6 52.2 56.60841  
## WT/BR 55.71713 1.359474 6 53.6 57.39993  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9881678   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.89344 a  
## WT/BR 55.71713 ab  
## BRN 54.89660 bc  
## WT/BLK 54.24258 c  
## BLK 48.94698 d  
## WHT 47.74353 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3064242   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.65787 2.640629 18 50.79192 57.39993  
## AftLow 51.15556 4.202131 18 44.20000 55.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3808278   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.65787 a  
## AftLow 51.15556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3064242 24 52.90671 1.046287 1.62966  
##   
## $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 56.98688 0.3077894 3 56.77684 57.34019 56.81023 56.84363  
## BL/BR:AftLow 54.80000 0.6082763 3 54.40000 55.50000 54.45000 54.50000  
## BLK:AftHigh 51.26063 0.2309843 3 51.07967 51.52080 51.13054 51.18142  
## BLK:AftLow 46.63333 0.3055050 3 46.30000 46.90000 46.50000 46.70000  
## BRN:AftHigh 56.25987 0.1591917 3 56.07824 56.37521 56.20220 56.32615  
## BRN:AftLow 53.53333 0.2886751 3 53.20000 53.70000 53.45000 53.70000  
## WHT:AftHigh 50.95373 0.1401847 3 50.79192 51.03839 50.91141 51.03089  
## WHT:AftLow 44.53333 0.2886751 3 44.20000 44.70000 44.45000 44.70000  
## WT/BLK:AftHigh 55.78516 0.7260405 3 55.23632 56.60841 55.37353 55.51074  
## WT/BLK:AftLow 52.70000 0.7810250 3 52.20000 53.60000 52.25000 52.30000  
## WT/BR:AftHigh 56.70092 0.7096060 3 55.98117 57.39993 56.35142 56.72166  
## WT/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 57.09191  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 51.35111  
## BLK:AftLow 46.80000  
## BRN:AftHigh 56.35068  
## BRN:AftLow 53.70000  
## WHT:AftHigh 51.03464  
## WHT:AftLow 44.70000  
## WT/BLK:AftHigh 56.05958  
## WT/BLK:AftLow 52.95000  
## WT/BR:AftHigh 57.06079  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 56.98688 a  
## WT/BR:AftHigh 56.70092 a  
## BRN:AftHigh 56.25987 ab  
## WT/BLK:AftHigh 55.78516 ab  
## BL/BR:AftLow 54.80000 bc  
## WT/BR:AftLow 54.73333 bc  
## BRN:AftLow 53.53333 cd  
## WT/BLK:AftLow 52.70000 de  
## BLK:AftHigh 51.26063 ef  
## WHT:AftHigh 50.95373 f  
## BLK:AftLow 46.63333 g  
## WHT:AftLow 44.53333 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT82 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 295.720 59.144 36.9552 1.632e-10 \*\*\*  
## THIregime 1 104.155 104.155 65.0792 2.721e-08 \*\*\*  
## Colour:THIregime 5 14.568 2.914 1.8205 0.1468   
## Residuals 24 38.410 1.600   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.600427   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.72937 1.039348 6 55.3 57.79102  
## BLK 51.02150 1.896923 6 49.1 52.95947  
## BRN 51.61103 3.249603 6 47.7 55.82838  
## WHT 48.77247 3.039003 6 45.7 52.07399  
## WT/BLK 55.84226 1.478540 6 53.7 57.57541  
## WT/BR 54.92900 2.183216 6 51.6 57.70608  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.258329   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.72937 a  
## WT/BLK 55.84226 a  
## WT/BR 54.92900 a  
## BRN 51.61103 b  
## BLK 51.02150 bc  
## WHT 48.77247 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.600427   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.85187 2.465687 18 51.13168 57.79102  
## AftLow 51.45000 3.798955 18 45.70000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8703322   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.85187 a  
## AftLow 51.45000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.600427 24 53.15094 2.380165 3.724375  
##   
## $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 57.62540 0.1965933 3 57.40814 57.79102 57.54259 57.67704  
## BL/BR:AftLow 55.83333 0.5033223 3 55.30000 56.30000 55.60000 55.90000  
## BLK:AftHigh 52.74299 0.1874763 3 52.63362 52.95947 52.63475 52.63589  
## BLK:AftLow 49.30000 0.2645751 3 49.10000 49.60000 49.15000 49.20000  
## BRN:AftHigh 53.88872 1.6830889 3 52.81361 55.82838 52.91889 53.02418  
## BRN:AftLow 49.33333 2.8290163 3 47.70000 52.60000 47.70000 47.70000  
## WHT:AftHigh 51.51160 0.4969477 3 51.13168 52.07399 51.23041 51.32914  
## WHT:AftLow 46.03333 0.5773503 3 45.70000 46.70000 45.70000 45.70000  
## WT/BLK:AftHigh 57.01786 0.5619531 3 56.45160 57.57541 56.73909 57.02657  
## WT/BLK:AftLow 54.66667 1.0016653 3 53.70000 55.70000 54.15000 54.60000  
## WT/BR:AftHigh 56.32466 1.2566338 3 55.24939 57.70608 55.63395 56.01851  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 57.73403  
## BL/BR:AftLow 56.10000  
## BLK:AftHigh 52.79768  
## BLK:AftLow 49.40000  
## BRN:AftHigh 54.42628  
## BRN:AftLow 50.15000  
## WHT:AftHigh 51.70156  
## WHT:AftLow 46.20000  
## WT/BLK:AftHigh 57.30099  
## WT/BLK:AftLow 55.15000  
## WT/BR:AftHigh 56.86229  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 57.62540 a  
## WT/BLK:AftHigh 57.01786 ab  
## WT/BR:AftHigh 56.32466 abc  
## BL/BR:AftLow 55.83333 abc  
## WT/BLK:AftLow 54.66667 abcd  
## BRN:AftHigh 53.88872 bcd  
## WT/BR:AftLow 53.53333 bcd  
## BLK:AftHigh 52.74299 cde  
## WHT:AftHigh 51.51160 de  
## BRN:AftLow 49.33333 ef  
## BLK:AftLow 49.30000 ef  
## WHT:AftLow 46.03333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT83 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 189.330 37.866 32.1098 7.005e-10 \*\*\*  
## THIregime 1 87.825 87.825 74.4744 8.042e-09 \*\*\*  
## Colour:THIregime 5 7.553 1.511 1.2809 0.3046   
## Residuals 24 28.302 1.179   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.179268   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.44748 1.046292 6 57.1 59.59825  
## BLK 52.40230 2.864500 6 48.6 56.03842  
## BRN 55.26017 1.746742 6 53.6 56.92605  
## WHT 52.52812 2.445193 6 50.2 54.85890  
## WT/BLK 57.37193 1.903523 6 54.4 59.70976  
## WT/BR 56.46151 1.668100 6 54.3 58.31092  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.938543   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.44748 a  
## WT/BLK 57.37193 ab  
## WT/BR 56.46151 bc  
## BRN 55.26017 c  
## WHT 52.52812 d  
## BLK 52.40230 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.179268   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.97384 2.008812 18 53.50547 59.70976  
## AftLow 53.85000 3.034944 18 48.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7470906   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.97384 a  
## AftLow 53.85000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.179268 24 55.41192 1.959761 3.196993  
##   
## $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 59.36164 0.29405429 3 59.03243 59.59825 59.24333 59.45422  
## BL/BR:AftLow 57.53333 0.37859389 3 57.10000 57.80000 57.40000 57.70000  
## BLK:AftHigh 54.43794 1.39234941 3 53.50547 56.03842 53.63770 53.76992  
## BLK:AftLow 50.36667 2.47857486 3 48.60000 53.20000 48.95000 49.30000  
## BRN:AftHigh 56.85368 0.08161270 3 56.76522 56.92605 56.81749 56.86976  
## BRN:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WHT:AftHigh 54.75624 0.15447004 3 54.57859 54.85890 54.70491 54.83123  
## WHT:AftLow 50.30000 0.17320508 3 50.20000 50.50000 50.20000 50.20000  
## WT/BLK:AftHigh 58.54385 1.22811586 3 57.26179 59.70976 57.96090 58.66001  
## WT/BLK:AftLow 56.20000 1.85202592 3 54.40000 58.10000 55.25000 56.10000  
## WT/BR:AftHigh 57.88969 0.42893566 3 57.45344 58.31092 57.67907 57.90471  
## WT/BR:AftLow 55.03333 0.80829038 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 59.52624  
## BL/BR:AftLow 57.75000  
## BLK:AftHigh 54.90417  
## BLK:AftLow 51.25000  
## BRN:AftHigh 56.89791  
## BRN:AftLow 53.70000  
## WHT:AftHigh 54.84507  
## WHT:AftLow 50.35000  
## WT/BLK:AftHigh 59.18489  
## WT/BLK:AftLow 57.10000  
## WT/BR:AftHigh 58.10781  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 59.36164 a  
## WT/BLK:AftHigh 58.54385 a  
## WT/BR:AftHigh 57.88969 ab  
## BL/BR:AftLow 57.53333 abc  
## BRN:AftHigh 56.85368 abcd  
## WT/BLK:AftLow 56.20000 abcd  
## WT/BR:AftLow 55.03333 bcd  
## WHT:AftHigh 54.75624 bcd  
## BLK:AftHigh 54.43794 cd  
## BRN:AftLow 53.66667 d  
## BLK:AftLow 50.36667 e  
## WHT:AftLow 50.30000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT84 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 100.702 20.140 3.5906 0.01448 \*   
## THIregime 1 58.403 58.403 10.4119 0.00360 \*\*  
## Colour:THIregime 5 5.820 1.164 0.2075 0.95607   
## Residuals 24 134.621 5.609   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.609207   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.06744 1.9764244 6 50.2 53.98184  
## BLK 52.10317 1.5279984 6 50.2 53.79330  
## BRN 54.30548 3.7544364 6 47.7 57.30000  
## WHT 51.03596 3.4776349 6 44.6 54.14591  
## WT/BLK 52.54080 2.5616448 6 49.5 55.75902  
## WT/BR 56.05599 0.8808805 6 54.6 57.02657  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.227853   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.05599 a  
## BRN 54.30548 ab  
## WT/BLK 52.54080 ab  
## BLK 52.10317 ab  
## BL/BR 52.06744 ab  
## WHT 51.03596 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.609207   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.29183 1.895173 18 50.2086 57.11503  
## AftLow 51.74444 3.254720 18 44.6000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.629363   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.29183 a  
## AftLow 51.74444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 5.609207 24 53.01814 4.467106 6.972462  
##   
## $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 53.86820 0.1549165 3 53.69174 53.98184 53.81138 53.93102  
## BL/BR:AftLow 50.26667 0.1154701 3 50.20000 50.40000 50.20000 50.20000  
## BLK:AftHigh 53.43968 0.3389151 3 53.11768 53.79330 53.26287 53.40806  
## BLK:AftLow 50.76667 0.6027714 3 50.20000 51.40000 50.45000 50.70000  
## BRN:AftHigh 55.14430 2.6991305 3 52.06789 57.11503 54.15894 56.24999  
## BRN:AftLow 53.46667 5.0836339 3 47.70000 57.30000 51.55000 55.40000  
## WHT:AftHigh 52.70525 2.1706978 3 50.20860 54.14591 51.98492 53.76123  
## WHT:AftLow 49.36667 4.1428654 3 44.60000 52.10000 48.00000 51.40000  
## WT/BLK:AftHigh 53.84826 1.6653322 3 52.70558 55.75902 52.89288 53.08019  
## WT/BLK:AftLow 51.23333 2.9160476 3 49.50000 54.60000 49.55000 49.60000  
## WT/BR:AftHigh 56.74531 0.2665606 3 56.49640 57.02657 56.60468 56.71295  
## WT/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 53.95643  
## BL/BR:AftLow 50.30000  
## BLK:AftHigh 53.60068  
## BLK:AftLow 51.05000  
## BRN:AftHigh 56.68251  
## BRN:AftLow 56.35000  
## WHT:AftHigh 53.95357  
## WHT:AftLow 51.75000  
## WT/BLK:AftHigh 54.41960  
## WT/BLK:AftLow 52.10000  
## WT/BR:AftHigh 56.86976  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.74531 a  
## WT/BR:AftLow 55.36667 ab  
## BRN:AftHigh 55.14430 ab  
## BL/BR:AftHigh 53.86820 ab  
## WT/BLK:AftHigh 53.84826 ab  
## BRN:AftLow 53.46667 ab  
## BLK:AftHigh 53.43968 ab  
## WHT:AftHigh 52.70525 ab  
## WT/BLK:AftLow 51.23333 ab  
## BLK:AftLow 50.76667 ab  
## BL/BR:AftLow 50.26667 ab  
## WHT:AftLow 49.36667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT85 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 190.639 38.128 25.9277 6.062e-09 \*\*\*  
## THIregime 1 69.746 69.746 47.4288 4.020e-07 \*\*\*  
## Colour:THIregime 5 16.020 3.204 2.1788 0.09026 .   
## Residuals 24 35.293 1.471   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470543   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.40106 2.7786030 6 49.3 56.64761  
## BLK 54.41343 0.7515534 6 53.6 55.13240  
## BRN 50.73868 2.3156486 6 48.3 52.97938  
## WHT 49.27506 2.5268781 6 46.4 51.85184  
## WT/BLK 51.38208 1.9002438 6 49.3 53.83810  
## WT/BR 55.64110 0.7537530 6 54.6 56.38888  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.164751   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.64110 a  
## BLK 54.41343 a  
## BL/BR 54.40106 a  
## WT/BLK 51.38208 b  
## BRN 50.73868 b  
## WHT 49.27506 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470543   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.0338 1.851987 18 51.08812 56.64761  
## AftLow 51.2500 3.286738 18 46.40000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8342686   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.0338 a  
## AftLow 51.2500 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.470543 24 52.6419 2.303601 3.57005  
##   
## $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 55.50213 1.91430691 3 53.29217 56.64761 54.92938 56.56659  
## BL/BR:AftLow 53.30000 3.46410162 3 49.30000 55.30000 52.30000 55.30000  
## BLK:AftHigh 55.09353 0.03393383 3 55.06985 55.13240 55.07409 55.07832  
## BLK:AftLow 53.73333 0.15275252 3 53.60000 53.90000 53.65000 53.70000  
## BRN:AftHigh 52.84403 0.12162373 3 52.74391 52.97938 52.77635 52.80878  
## BRN:AftLow 48.63333 0.30550505 3 48.30000 48.90000 48.50000 48.70000  
## WHT:AftHigh 51.55012 0.40630797 3 51.08812 51.85184 51.39926 51.71040  
## WHT:AftLow 47.00000 0.51961524 3 46.40000 47.30000 46.85000 47.30000  
## WT/BLK:AftHigh 53.03082 0.72727200 3 52.42681 53.83810 52.62718 52.82755  
## WT/BLK:AftLow 49.73333 0.58594653 3 49.30000 50.40000 49.40000 49.50000  
## WT/BR:AftHigh 56.18220 0.22800903 3 55.93761 56.38888 56.07887 56.22012  
## WT/BR:AftLow 55.10000 0.70000000 3 54.60000 55.90000 54.70000 54.80000  
## Q75  
## BL/BR:AftHigh 56.60710  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 55.10536  
## BLK:AftLow 53.80000  
## BRN:AftHigh 52.89408  
## BRN:AftLow 48.80000  
## WHT:AftHigh 51.78112  
## WHT:AftLow 47.30000  
## WT/BLK:AftHigh 53.33282  
## WT/BLK:AftLow 49.95000  
## WT/BR:AftHigh 56.30450  
## WT/BR:AftLow 55.35000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 56.18220 a  
## BL/BR:AftHigh 55.50213 a  
## WT/BR:AftLow 55.10000 ab  
## BLK:AftHigh 55.09353 ab  
## BLK:AftLow 53.73333 ab  
## BL/BR:AftLow 53.30000 abc  
## WT/BLK:AftHigh 53.03082 abc  
## BRN:AftHigh 52.84403 abc  
## WHT:AftHigh 51.55012 bcd  
## WT/BLK:AftLow 49.73333 cde  
## BRN:AftLow 48.63333 de  
## WHT:AftLow 47.00000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT86 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 175.020 35.004 12.7305 4.161e-06 \*\*\*  
## THIregime 1 92.853 92.853 33.7695 5.431e-06 \*\*\*  
## Colour:THIregime 5 12.102 2.420 0.8803 0.5092   
## Residuals 24 65.991 2.750   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.749624   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.30226 2.572231 6 49.1 56.17065  
## BLK 54.75402 1.047379 6 53.7 55.73724  
## BRN 54.49278 3.516097 6 50.2 58.74344  
## WHT 49.47814 3.095876 6 45.3 52.62052  
## WT/BLK 55.49798 1.620029 6 53.5 57.26179  
## WT/BR 56.27753 1.379850 6 54.2 57.86289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.960096   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.27753 a  
## WT/BLK 55.49798 ab  
## BLK 54.75402 ab  
## BRN 54.49278 ab  
## BL/BR 53.30226 b  
## WHT 49.47814 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.749624   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.57313 1.980050 18 51.59702 58.74344  
## AftLow 52.36111 3.311857 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.140785   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.57313 a  
## AftLow 52.36111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.749624 24 53.96712 3.07261 4.881711  
##   
## $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 55.20452 1.2629834 3 53.77538 56.17065 54.72146 55.66755  
## BL/BR:AftLow 51.40000 2.0223748 3 49.10000 52.90000 50.65000 52.20000  
## BLK:AftHigh 55.70803 0.0454478 3 55.65567 55.73724 55.69343 55.73118  
## BLK:AftLow 53.80000 0.1000000 3 53.70000 53.90000 53.75000 53.80000  
## BRN:AftHigh 56.01890 2.3615558 3 54.55868 58.74344 54.65662 54.75457  
## BRN:AftLow 52.96667 4.2829118 3 50.20000 57.90000 50.50000 50.80000  
## WHT:AftHigh 52.18962 0.5305588 3 51.59702 52.62052 51.97417 52.35131  
## WHT:AftLow 46.76667 1.2741010 3 45.30000 47.60000 46.35000 47.40000  
## WT/BLK:AftHigh 56.92929 0.4146592 3 56.46467 57.26179 56.76304 57.06142  
## WT/BLK:AftLow 54.06667 0.4932883 3 53.50000 54.40000 53.90000 54.30000  
## WT/BR:AftHigh 57.38839 0.5427483 3 56.79658 57.86289 57.15115 57.50571  
## WT/BR:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## Q75  
## BL/BR:AftHigh 55.91910  
## BL/BR:AftLow 52.55000  
## BLK:AftHigh 55.73421  
## BLK:AftLow 53.85000  
## BRN:AftHigh 56.74900  
## BRN:AftLow 54.35000  
## WHT:AftHigh 52.48591  
## WHT:AftLow 47.50000  
## WT/BLK:AftHigh 57.16160  
## WT/BLK:AftLow 54.35000  
## WT/BR:AftHigh 57.68430  
## WT/BR:AftLow 55.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BR:AftHigh 57.38839 a  
## WT/BLK:AftHigh 56.92929 ab  
## BRN:AftHigh 56.01890 abc  
## BLK:AftHigh 55.70803 abc  
## BL/BR:AftHigh 55.20452 abc  
## WT/BR:AftLow 55.16667 abc  
## WT/BLK:AftLow 54.06667 abc  
## BLK:AftLow 53.80000 abc  
## BRN:AftLow 52.96667 abc  
## WHT:AftHigh 52.18962 bc  
## BL/BR:AftLow 51.40000 cd  
## WHT:AftLow 46.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT87 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 203.617 40.723 107.3805 1.286e-15 \*\*\*  
## THIregime 1 93.988 93.988 247.8317 3.773e-14 \*\*\*  
## Colour:THIregime 5 9.393 1.879 4.9535 0.002955 \*\*   
## Residuals 24 9.102 0.379   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3792432   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.01993 1.424101 6 55.3 58.76455  
## BLK 52.18848 1.932980 6 50.2 54.14176  
## BRN 54.83190 1.784093 6 52.5 56.67676  
## WHT 50.38718 2.935218 6 47.2 53.42321  
## WT/BLK 56.17754 1.585493 6 54.4 58.09811  
## WT/BR 56.05641 1.555605 6 53.8 57.88529  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.09933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.01993 a  
## WT/BLK 56.17754 a  
## WT/BR 56.05641 a  
## BRN 54.83190 b  
## BLK 52.18848 c  
## WHT 50.38718 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3792432   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05937 1.994038 18 52.572 58.76455  
## AftLow 52.82778 3.014827 18 47.200 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4236683   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05937 a  
## AftLow 52.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3792432 24 54.44357 1.131129 1.812985  
##   
## $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 58.10653 0.5698658 3 57.77577 58.76455 57.77752 57.77926  
## BL/BR:AftLow 55.93333 1.0969655 3 55.30000 57.20000 55.30000 55.30000  
## BLK:AftHigh 53.94363 0.1899437 3 53.76310 54.14176 53.84456 53.92601  
## BLK:AftLow 50.43333 0.2516611 3 50.20000 50.70000 50.30000 50.40000  
## BRN:AftHigh 56.39714 0.4052540 3 55.93238 56.67676 56.25733 56.58228  
## BRN:AftLow 53.26667 0.6658328 3 52.50000 53.70000 53.05000 53.60000  
## WHT:AftHigh 53.04102 0.4321924 3 52.57200 53.42321 52.84992 53.12784  
## WHT:AftLow 47.73333 0.4725816 3 47.20000 48.10000 47.55000 47.90000  
## WT/BLK:AftHigh 57.55508 0.4707794 3 57.26179 58.09811 57.28356 57.30534  
## WT/BLK:AftLow 54.80000 0.6082763 3 54.40000 55.50000 54.45000 54.50000  
## WT/BR:AftHigh 57.31281 0.5604504 3 56.76522 57.88529 57.02657 57.28792  
## WT/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## Q75  
## BL/BR:AftHigh 58.27190  
## BL/BR:AftLow 56.25000  
## BLK:AftHigh 54.03389  
## BLK:AftLow 50.55000  
## BRN:AftHigh 56.62952  
## BRN:AftLow 53.65000  
## WHT:AftHigh 53.27552  
## WHT:AftLow 48.00000  
## WT/BLK:AftHigh 57.70172  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.58661  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BL/BR:AftHigh 58.10653 a  
## WT/BLK:AftHigh 57.55508 ab  
## WT/BR:AftHigh 57.31281 ab  
## BRN:AftHigh 56.39714 abc  
## BL/BR:AftLow 55.93333 bc  
## WT/BLK:AftLow 54.80000 cd  
## WT/BR:AftLow 54.80000 cd  
## BLK:AftHigh 53.94363 d  
## BRN:AftLow 53.26667 d  
## WHT:AftHigh 53.04102 d  
## BLK:AftLow 50.43333 e  
## WHT:AftLow 47.73333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT88 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 290.909 58.182 39.6178 7.857e-11 \*\*\*  
## THIregime 1 92.397 92.397 62.9162 3.670e-08 \*\*\*  
## Colour:THIregime 5 18.975 3.795 2.5842 0.05247 .   
## Residuals 24 35.246 1.469   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.468577   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.97257 2.058416 6 53.3 59.16964  
## BLK 54.34612 1.324296 6 52.8 55.76073  
## BRN 55.79705 2.214675 6 51.9 58.01166  
## WHT 48.80598 3.773904 6 44.3 52.99597  
## WT/BLK 57.02960 1.358253 6 55.3 58.43786  
## WT/BR 56.09435 1.529996 6 54.6 57.60154  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.163304   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.02960 a  
## BL/BR 56.97257 a  
## WT/BR 56.09435 ab  
## BRN 55.79705 ab  
## BLK 54.34612 b  
## WHT 48.80598 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.468577   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.44301 2.331971 18 51.28609 59.16964  
## AftLow 53.23889 3.855346 18 44.30000 57.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8337107   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.44301 a  
## AftLow 53.23889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.468577 24 54.84095 2.209751 3.567663  
##   
## $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 58.14515 1.21569053 3 56.80181 59.16964 57.63290 58.46400  
## BL/BR:AftLow 55.80000 2.23383079 3 53.30000 57.60000 54.90000 56.50000  
## BLK:AftHigh 55.52558 0.21841719 3 55.32904 55.76073 55.40801 55.48698  
## BLK:AftLow 53.16667 0.40414519 3 52.80000 53.60000 52.95000 53.10000  
## BRN:AftHigh 57.26076 1.17100220 3 55.91148 58.01166 56.88532 57.85916  
## BRN:AftLow 54.33333 2.11266025 3 51.90000 55.70000 53.65000 55.40000  
## WHT:AftHigh 52.01197 0.88368277 3 51.28609 52.99597 51.51996 51.75383  
## WHT:AftLow 45.60000 1.99749844 3 44.30000 47.90000 44.45000 44.60000  
## WT/BLK:AftHigh 58.22588 0.25611905 3 57.94130 58.43786 58.11988 58.29847  
## WT/BLK:AftLow 55.83333 0.50332230 3 55.30000 56.30000 55.60000 55.90000  
## WT/BR:AftHigh 57.48870 0.09784627 3 57.42731 57.60154 57.43228 57.43726  
## WT/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 58.81682  
## BL/BR:AftLow 57.05000  
## BLK:AftHigh 55.62385  
## BLK:AftLow 53.35000  
## BRN:AftHigh 57.93541  
## BRN:AftLow 55.55000  
## WHT:AftHigh 52.37490  
## WHT:AftLow 46.25000  
## WT/BLK:AftHigh 58.36817  
## WT/BLK:AftLow 56.10000  
## WT/BR:AftHigh 57.51940  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 58.22588 a  
## BL/BR:AftHigh 58.14515 a  
## WT/BR:AftHigh 57.48870 ab  
## BRN:AftHigh 57.26076 ab  
## WT/BLK:AftLow 55.83333 abc  
## BL/BR:AftLow 55.80000 abc  
## BLK:AftHigh 55.52558 abcd  
## WT/BR:AftLow 54.70000 abcd  
## BRN:AftLow 54.33333 bcd  
## BLK:AftLow 53.16667 cd  
## WHT:AftHigh 52.01197 d  
## WHT:AftLow 45.60000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT89 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.20 82.041 22.453 2.477e-08 \*\*\*  
## THIregime 1 108.28 108.278 29.634 1.358e-05 \*\*\*  
## Colour:THIregime 5 19.22 3.844 1.052 0.4108   
## Residuals 24 87.69 3.654   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.653882   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.35323 4.641219 6 46.5 58.83860  
## BLK 54.04932 1.040942 6 52.7 55.29170  
## BRN 52.71386 2.159190 6 50.2 55.06819  
## WHT 47.78108 3.370565 6 43.6 51.06472  
## WT/BLK 58.54532 1.167858 6 57.1 59.91449  
## WT/BR 56.66286 1.739796 6 54.7 58.44657  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.412294   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.54532 a  
## WT/BR 56.66286 ab  
## BLK 54.04932 bc  
## BL/BR 53.35323 bc  
## BRN 52.71386 c  
## WHT 47.78108 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.653882   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.58522 3.080212 18 50.40788 59.91449  
## AftLow 52.11667 4.575028 18 43.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.315056   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.58522 a  
## AftLow 52.11667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.653882 24 53.85095 3.549637 5.627464  
##   
## $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 55.47313 3.0210969 3 52.99525 58.83860 53.79040 54.58556  
## BL/BR:AftLow 51.23333 5.5895736 3 46.50000 57.40000 48.15000 49.80000  
## BLK:AftHigh 54.86531 0.3715759 3 54.61079 55.29170 54.65211 54.69343  
## BLK:AftLow 53.23333 0.7571878 3 52.70000 54.10000 52.80000 52.90000  
## BRN:AftHigh 54.59439 0.4274779 3 54.23759 55.06819 54.35750 54.47740  
## BRN:AftLow 50.83333 0.9291573 3 50.20000 51.90000 50.30000 50.40000  
## WHT:AftHigh 50.79549 0.3440494 3 50.40788 51.06472 50.66088 50.91388  
## WHT:AftLow 44.76667 1.0115994 3 43.60000 45.40000 44.45000 45.30000  
## WT/BLK:AftHigh 59.55731 0.4404995 3 59.06510 59.91449 59.37872 59.69234  
## WT/BLK:AftLow 57.53333 0.3785939 3 57.10000 57.80000 57.40000 57.70000  
## WT/BR:AftHigh 58.22571 0.2822712 3 57.90769 58.44657 58.11528 58.32287  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 56.71208  
## BL/BR:AftLow 53.60000  
## BLK:AftHigh 54.99257  
## BLK:AftLow 53.50000  
## BRN:AftHigh 54.77279  
## BRN:AftLow 51.15000  
## WHT:AftHigh 50.98930  
## WHT:AftLow 45.35000  
## WT/BLK:AftHigh 59.80341  
## WT/BLK:AftLow 57.75000  
## WT/BR:AftHigh 58.38472  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## WT/BLK:AftHigh 59.55731 a  
## WT/BR:AftHigh 58.22571 ab  
## WT/BLK:AftLow 57.53333 ab  
## BL/BR:AftHigh 55.47313 abc  
## WT/BR:AftLow 55.10000 abc  
## BLK:AftHigh 54.86531 abc  
## BRN:AftHigh 54.59439 abc  
## BLK:AftLow 53.23333 bc  
## BL/BR:AftLow 51.23333 c  
## BRN:AftLow 50.83333 c  
## WHT:AftHigh 50.79549 c  
## WHT:AftLow 44.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- RESPRT90 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.731 55.746 21.556 3.664e-08 \*\*\*  
## THIregime 1 80.865 80.865 31.269 9.369e-06 \*\*\*  
## Colour:THIregime 5 20.585 4.117 1.592 0.2004   
## Residuals 24 62.066 2.586   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.586095   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 50.58887 2.5041218 6 46.5 53.32121  
## BLK 49.00325 2.4407549 6 46.3 51.52329  
## BRN 56.79331 1.0572980 6 55.2 57.94304  
## WHT 50.30072 3.9363320 6 43.2 54.16152  
## WT/BLK 51.89122 1.7930545 6 50.2 53.83810  
## WT/BR 55.18181 0.8048438 6 54.3 56.08571  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.870724   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.79331 a  
## WT/BR 55.18181 a  
## WT/BLK 51.89122 b  
## BL/BR 50.58887 bc  
## WHT 50.30072 bc  
## BLK 49.00325 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.586095   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.79195 2.302082 18 49.83073 57.94304  
## AftLow 50.79444 3.994772 18 43.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.106342   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.79195 a  
## AftLow 50.79444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.586095 24 52.2932 3.075226 4.734321  
##   
## $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 52.51107 0.9320122 3 51.49248 53.32121 52.10600 52.71952  
## BL/BR:AftLow 48.66667 1.9295941 3 46.50000 50.20000 47.90000 49.30000  
## BLK:AftHigh 51.20650 0.3467875 3 50.83598 51.52329 51.04811 51.26024  
## BLK:AftLow 46.80000 0.4582576 3 46.30000 47.20000 46.60000 46.90000  
## BRN:AftHigh 57.05329 0.8766990 3 56.19025 57.94304 56.60841 57.02657  
## BRN:AftLow 56.53333 1.3503086 3 55.20000 57.90000 55.85000 56.50000  
## WHT:AftHigh 52.56810 2.3812557 3 49.83073 54.16152 51.77139 53.71204  
## WHT:AftLow 48.03333 4.2003968 3 43.20000 50.80000 46.65000 50.10000  
## WT/BLK:AftHigh 53.51577 0.3267746 3 53.18473 53.83810 53.35460 53.52448  
## WT/BLK:AftLow 50.26667 0.1154701 3 50.20000 50.40000 50.20000 50.20000  
## WT/BR:AftHigh 55.89696 0.2486007 3 55.61528 56.08571 55.80258 55.98988  
## WT/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 53.02036  
## BL/BR:AftLow 49.75000  
## BLK:AftHigh 51.39176  
## BLK:AftLow 47.05000  
## BRN:AftHigh 57.48480  
## BRN:AftLow 57.20000  
## WHT:AftHigh 53.93678  
## WHT:AftLow 50.45000  
## WT/BLK:AftHigh 53.68129  
## WT/BLK:AftLow 50.30000  
## WT/BR:AftHigh 56.03780  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data1[[i]] groups  
## BRN:AftHigh 57.05329 a  
## BRN:AftLow 56.53333 a  
## WT/BR:AftHigh 55.89696 ab  
## WT/BR:AftLow 54.46667 abc  
## WT/BLK:AftHigh 53.51577 abc  
## WHT:AftHigh 52.56810 abcd  
## BL/BR:AftHigh 52.51107 abcd  
## BLK:AftHigh 51.20650 bcde  
## WT/BLK:AftLow 50.26667 cde  
## BL/BR:AftLow 48.66667 de  
## WHT:AftLow 48.03333 de  
## BLK:AftLow 46.80000 e  
##   
## attr(,"class")  
## [1] "group"

# Pulse Rate (Sheet Two for Afternoon 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 69.430 13.886 3.5802 0.0146711 \*   
## THIregime 1 58.149 58.149 14.9925 0.0007277 \*\*\*  
## Colour:THIregime 5 6.389 1.278 0.3294 0.8901775   
## Residuals 24 93.086 3.879   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.878569   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.20482 3.312692 6 52.6 60.10000  
## BLK 54.91160 1.634541 6 53.1 56.55863  
## BRN 56.48903 1.433188 6 54.3 58.05330  
## WHT 54.71939 2.675672 6 51.2 58.11117  
## WT/BLK 52.69568 2.713362 6 49.1 56.60841  
## WT/BR 56.73839 1.141712 6 54.8 58.00477  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.515645   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.73839 a  
## BRN 56.48903 a  
## BL/BR 56.20482 ab  
## BLK 54.91160 ab  
## WHT 54.71939 ab  
## WT/BLK 52.69568 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.878569   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.56408 1.633348 18 53.24571 59.97983  
## AftLow 54.02222 2.695870 18 49.10000 60.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.354886   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.56408 a  
## AftLow 54.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.878569 24 55.29315 3.561758 5.797907  
##   
## $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 57.27630 2.3424882 3 55.85050 59.97983 55.92454 55.99859  
## BL/BR:AftLow 55.13333 4.3015501 3 52.60000 60.10000 52.65000 52.70000  
## BLK:AftHigh 56.38986 0.1736915 3 56.21163 56.55863 56.30548 56.39933  
## BLK:AftLow 53.43333 0.3055050 3 53.10000 53.70000 53.30000 53.50000  
## BRN:AftHigh 57.64473 0.5146105 3 57.06678 58.05330 57.44044 57.81410  
## BRN:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WHT:AftHigh 56.40545 1.4920893 3 55.34231 58.11117 55.55259 55.76287  
## WHT:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## WT/BLK:AftHigh 54.42469 1.8931663 3 53.24571 56.60841 53.33282 53.41994  
## WT/BLK:AftLow 50.96667 2.4193663 3 49.10000 53.70000 49.60000 50.10000  
## WT/BR:AftHigh 57.24345 0.9644591 3 56.15889 58.00477 56.86279 57.56669  
## WT/BR:AftLow 56.23333 1.2503333 3 54.80000 57.10000 55.80000 56.80000  
## Q75  
## BL/BR:AftHigh 57.98921  
## BL/BR:AftLow 56.40000  
## BLK:AftHigh 56.47898  
## BLK:AftLow 53.60000  
## BRN:AftHigh 57.93370  
## BRN:AftLow 55.85000  
## WHT:AftHigh 56.93702  
## WHT:AftLow 53.95000  
## WT/BLK:AftHigh 55.01418  
## WT/BLK:AftLow 51.90000  
## WT/BR:AftHigh 57.78573  
## WT/BR:AftLow 56.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.64473 a  
## BL/BR:AftHigh 57.27630 a  
## WT/BR:AftHigh 57.24345 a  
## WHT:AftHigh 56.40545 ab  
## BLK:AftHigh 56.38986 ab  
## WT/BR:AftLow 56.23333 ab  
## BRN:AftLow 55.33333 ab  
## BL/BR:AftLow 55.13333 ab  
## WT/BLK:AftHigh 54.42469 ab  
## BLK:AftLow 53.43333 ab  
## WHT:AftLow 53.03333 ab  
## WT/BLK:AftLow 50.96667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT2 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 34.564 6.913 3.6598 0.0133 \*   
## THIregime 1 44.555 44.555 23.5883 5.978e-05 \*\*\*  
## Colour:THIregime 5 2.429 0.486 0.2572 0.9319   
## Residuals 24 45.333 1.889   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.888859   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.59839 1.104350 6 55.2 57.90209  
## BLK 54.57892 1.406630 6 53.1 55.91645  
## BRN 54.34013 1.709892 6 51.6 56.07078  
## WHT 54.26773 1.658407 6 51.6 55.95350  
## WT/BLK 53.81583 1.997983 6 51.4 56.50387  
## WT/BR 55.84062 2.366270 6 51.7 57.63888  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.453403   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.59839 a  
## WT/BR 55.84062 ab  
## BLK 54.57892 ab  
## BRN 54.34013 ab  
## WHT 54.26773 ab  
## WT/BLK 53.81583 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.888859   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.01943 1.158017 18 54.29546 57.90209  
## AftLow 53.79444 1.871292 18 51.40000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9455115   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.01943 a  
## AftLow 53.79444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.888859 24 54.90694 2.503067 4.046087  
##   
## $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 57.43011 0.41272938 3 57.13692 57.90209 57.19412 57.25133  
## BL/BR:AftLow 55.76667 0.89628864 3 55.20000 56.80000 55.25000 55.30000  
## BLK:AftHigh 55.85785 0.09790807 3 55.74482 55.91645 55.82854 55.91227  
## BLK:AftLow 53.30000 0.17320508 3 53.10000 53.40000 53.25000 53.40000  
## BRN:AftHigh 55.68026 0.67191536 3 54.90441 56.07078 55.48501 56.06561  
## BRN:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WHT:AftHigh 55.56879 0.62783027 3 54.84430 55.95350 55.37644 55.90857  
## WHT:AftLow 52.96667 1.18462371 3 51.60000 53.70000 52.60000 53.60000  
## WT/BLK:AftHigh 55.06499 1.24711041 3 54.29546 56.50387 54.34555 54.39565  
## WT/BLK:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## WT/BR:AftHigh 56.51457 1.89264842 3 54.32944 57.63888 55.95242 57.57541  
## WT/BR:AftLow 55.16667 3.00887576 3 51.70000 57.10000 54.20000 56.70000  
## Q75  
## BL/BR:AftHigh 57.57671  
## BL/BR:AftLow 56.05000  
## BLK:AftHigh 55.91436  
## BLK:AftLow 53.40000  
## BRN:AftHigh 56.06819  
## BRN:AftLow 53.70000  
## WHT:AftHigh 55.93104  
## WHT:AftLow 53.65000  
## WT/BLK:AftHigh 55.44976  
## WT/BLK:AftLow 53.15000  
## WT/BR:AftHigh 57.60714  
## WT/BR:AftLow 56.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.43011 a  
## WT/BR:AftHigh 56.51457 ab  
## BLK:AftHigh 55.85785 ab  
## BL/BR:AftLow 55.76667 ab  
## BRN:AftHigh 55.68026 ab  
## WHT:AftHigh 55.56879 ab  
## WT/BR:AftLow 55.16667 ab  
## WT/BLK:AftHigh 55.06499 ab  
## BLK:AftLow 53.30000 b  
## BRN:AftLow 53.00000 b  
## WHT:AftLow 52.96667 b  
## WT/BLK:AftLow 52.56667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT3 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 66.867 13.373 27.569 3.288e-09 \*\*\*  
## THIregime 1 46.762 46.762 96.398 7.024e-10 \*\*\*  
## Colour:THIregime 5 5.503 1.101 2.269 0.07993 .   
## Residuals 24 11.642 0.485   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4850891   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 59.25504 0.8557558 6 57.8 60.20981  
## BLK 57.41928 1.5605115 6 55.2 59.36736  
## BRN 56.11413 1.7574844 6 53.8 58.06450  
## WHT 56.79484 1.4301889 6 55.1 58.36236  
## WT/BLK 56.79016 1.2383232 6 55.2 58.01970  
## WT/BR 54.73148 1.7164725 6 53.1 56.38888  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.243311   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 59.25504 a  
## BLK 57.41928 b  
## WHT 56.79484 bc  
## WT/BLK 56.79016 bc  
## BRN 56.11413 c  
## WT/BR 54.73148 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4850891   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.99053 1.109714 18 56.24252 60.20981  
## AftLow 55.71111 1.926255 18 53.10000 59.50000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.479157   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.99053 a  
## AftLow 55.71111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4850891 24 56.85082 1.225107 2.050436  
##   
## $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 59.64341 0.71761033 3 58.83642 60.20981 59.36021 59.88400  
## BL/BR:AftLow 58.86667 0.92915732 3 57.80000 59.50000 58.55000 59.30000  
## BLK:AftHigh 58.43856 0.82534530 3 57.78924 59.36736 57.97416 58.15909  
## BLK:AftLow 56.40000 1.51327460 3 55.20000 58.10000 55.55000 55.90000  
## BRN:AftHigh 57.62827 0.45174148 3 57.16247 58.06450 57.41015 57.65783  
## BRN:AftLow 54.60000 0.80000000 3 53.80000 55.40000 54.20000 54.60000  
## WHT:AftHigh 58.05635 0.27580301 3 57.82695 58.36236 57.90334 57.97973  
## WHT:AftLow 55.53333 0.51316014 3 55.10000 56.10000 55.25000 55.40000  
## WT/BLK:AftHigh 57.88031 0.24142479 3 57.60154 58.01970 57.81062 58.01970  
## WT/BLK:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 56.29628 0.08053444 3 56.24252 56.38888 56.24999 56.25745  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 60.04690  
## BL/BR:AftLow 59.40000  
## BLK:AftHigh 58.76322  
## BLK:AftLow 57.00000  
## BRN:AftHigh 57.86117  
## BRN:AftLow 55.00000  
## WHT:AftHigh 58.17104  
## WHT:AftLow 55.75000  
## WT/BLK:AftHigh 58.01970  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 56.32317  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.64341 a  
## BL/BR:AftLow 58.86667 a  
## BLK:AftHigh 58.43856 ab  
## WHT:AftHigh 58.05635 abc  
## WT/BLK:AftHigh 57.88031 abc  
## BRN:AftHigh 57.62827 abcd  
## BLK:AftLow 56.40000 bcde  
## WT/BR:AftHigh 56.29628 cde  
## WT/BLK:AftLow 55.70000 de  
## WHT:AftLow 55.53333 e  
## BRN:AftLow 54.60000 ef  
## WT/BR:AftLow 53.16667 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 23.282 4.656 6.4965 0.0005957 \*\*\*  
## THIregime 1 56.440 56.440 78.7455 4.803e-09 \*\*\*  
## Colour:THIregime 5 1.817 0.363 0.5070 0.7680705   
## Residuals 24 17.202 0.717   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7167373   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.23143 1.377322 6 54.7 57.79900  
## BLK 57.43817 1.523029 6 54.7 58.97549  
## BRN 54.82933 1.822966 6 53.1 56.52397  
## WHT 55.77749 1.439990 6 54.3 57.15878  
## WT/BLK 55.50145 1.865041 6 52.8 57.82369  
## WT/BR 56.30144 1.414179 6 54.6 57.98834  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.511295   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.43817 a  
## WT/BR 56.30144 ab  
## BL/BR 56.23143 ab  
## WHT 55.77749 b  
## WT/BLK 55.50145 b  
## BRN 54.82933 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7167373   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.26533 0.7805508 18 55.82436 58.97549  
## AftLow 54.76111 1.3707614 18 52.80000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5824344   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.26533 a  
## AftLow 54.76111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7167373 24 56.01322 1.511435 2.492387  
##   
## $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 57.42953 0.32074190 3 57.22258 57.79900 57.24480 57.26701  
## BL/BR:AftLow 55.03333 0.57735027 3 54.70000 55.70000 54.70000 54.70000  
## BLK:AftHigh 58.34302 0.83636178 3 57.39473 58.97549 58.02678 58.65882  
## BLK:AftLow 56.53333 1.62583312 3 54.70000 57.80000 55.90000 57.10000  
## BRN:AftHigh 56.49199 0.03691070 3 56.45160 56.52397 56.47599 56.50039  
## BRN:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WHT:AftHigh 57.08831 0.07648735 3 57.00697 57.15878 57.05307 57.09917  
## WHT:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BLK:AftHigh 56.76958 1.00410226 3 55.82436 57.82369 56.24252 56.66068  
## WT/BLK:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## WT/BR:AftHigh 57.46954 0.45059602 3 57.17591 57.98834 57.21014 57.24436  
## WT/BR:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.53301  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 58.81716  
## BLK:AftLow 57.45000  
## BRN:AftHigh 56.51218  
## BRN:AftLow 53.20000  
## WHT:AftHigh 57.12897  
## WHT:AftLow 54.55000  
## WT/BLK:AftHigh 57.24218  
## WT/BLK:AftLow 54.95000  
## WT/BR:AftHigh 57.61635  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.34302 a  
## WT/BR:AftHigh 57.46954 ab  
## BL/BR:AftHigh 57.42953 ab  
## WHT:AftHigh 57.08831 ab  
## WT/BLK:AftHigh 56.76958 abc  
## BLK:AftLow 56.53333 abcd  
## BRN:AftHigh 56.49199 abcd  
## WT/BR:AftLow 55.13333 bcde  
## BL/BR:AftLow 55.03333 bcde  
## WHT:AftLow 54.46667 cde  
## WT/BLK:AftLow 54.23333 de  
## BRN:AftLow 53.16667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT5 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 57.035 11.407 11.0752 1.296e-05 \*\*\*  
## THIregime 1 45.304 45.304 43.9867 7.355e-07 \*\*\*  
## Colour:THIregime 5 3.734 0.747 0.7252 0.6112   
## Residuals 24 24.719 1.030   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.029951   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.28754 1.340759 6 56.8 59.90000  
## BLK 55.61660 1.346180 6 54.2 56.99331  
## BRN 56.15302 1.265299 6 54.6 57.66185  
## WHT 55.25463 1.516390 6 53.1 56.88138  
## WT/BLK 55.08814 2.183455 6 51.6 57.94130  
## WT/BR 54.26424 1.572818 6 52.5 56.02597  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.811663   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.28754 a  
## BRN 56.15302 b  
## BLK 55.61660 bc  
## WHT 55.25463 bc  
## WT/BLK 55.08814 bc  
## WT/BR 54.26424 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.029951   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.89917 1.146956 18 55.1797 59.68581  
## AftLow 54.65556 1.926967 18 51.6000 59.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6981927   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.89917 a  
## AftLow 54.65556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.029951 24 55.77736 1.819493 2.987746  
##   
## $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 58.74175 0.8196558 3 58.21136 59.68581 58.26972 58.32809  
## BL/BR:AftLow 57.83333 1.7897858 3 56.80000 59.90000 56.80000 56.80000  
## BLK:AftHigh 56.83320 0.1419137 3 56.72291 56.99331 56.75315 56.78340  
## BLK:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BRN:AftHigh 57.17270 0.4240890 3 56.90809 57.66185 56.92813 56.94817  
## BRN:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WHT:AftHigh 56.54259 0.4107677 3 56.08571 56.88138 56.37320 56.66068  
## WHT:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BLK:AftHigh 56.47628 1.3884818 3 55.17970 57.94130 55.74378 56.30786  
## WT/BLK:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## WT/BR:AftHigh 55.62847 0.3478088 3 55.38007 56.02597 55.42972 55.47938  
## WT/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 59.00695  
## BL/BR:AftLow 58.35000  
## BLK:AftHigh 56.88835  
## BLK:AftLow 54.50000  
## BRN:AftHigh 57.30501  
## BRN:AftLow 55.40000  
## WHT:AftHigh 56.77103  
## WHT:AftLow 54.40000  
## WT/BLK:AftHigh 57.12458  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 55.75268  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.74175 a  
## BL/BR:AftLow 57.83333 ab  
## BRN:AftHigh 57.17270 abc  
## BLK:AftHigh 56.83320 abcd  
## WHT:AftHigh 56.54259 abcde  
## WT/BLK:AftHigh 56.47628 abcde  
## WT/BR:AftHigh 55.62847 bcdef  
## BRN:AftLow 55.13333 bcdef  
## BLK:AftLow 54.40000 cdef  
## WHT:AftLow 53.96667 def  
## WT/BLK:AftLow 53.70000 ef  
## WT/BR:AftLow 52.90000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT6 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 74.520 14.904 18.695 1.402e-07 \*\*\*  
## THIregime 1 55.563 55.563 69.695 1.472e-08 \*\*\*  
## Colour:THIregime 5 6.011 1.202 1.508 0.2245   
## Residuals 24 19.133 0.797   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7972272   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.72662 1.794218 6 55.6 60.48162  
## BLK 57.21776 1.231382 6 55.7 58.69174  
## BRN 54.68509 2.013424 6 52.5 56.82097  
## WHT 55.27430 1.652405 6 53.7 56.83382  
## WT/BLK 56.78943 1.254308 6 55.2 58.24185  
## WT/BR 54.96084 1.745950 6 52.6 56.66939  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.593897   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.72662 a  
## BLK 57.21776 ab  
## WT/BLK 56.78943 bc  
## WHT 55.27430 cd  
## WT/BR 54.96084 d  
## BRN 54.68509 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7972272   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.51802 1.184332 18 56.12753 60.48162  
## AftLow 55.03333 2.111871 18 52.50000 60.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6142683   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.51802 a  
## AftLow 55.03333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7972272 24 56.27567 1.586611 2.628612  
##   
## $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 59.28657 1.32063431 3 57.86870 60.48162 58.68905 59.50940  
## BL/BR:AftLow 58.16667 2.31588716 3 55.60000 60.10000 57.20000 58.80000  
## BLK:AftHigh 58.20219 0.42441665 3 57.93789 58.69174 57.95741 57.97693  
## BLK:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## BRN:AftHigh 56.47018 0.30825680 3 56.24252 56.82097 56.29479 56.34706  
## BRN:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WHT:AftHigh 56.78194 0.06222571 3 56.71295 56.83382 56.75600 56.79904  
## WHT:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BLK:AftHigh 57.87886 0.40329309 3 57.44473 58.24185 57.69737 57.95001  
## WT/BLK:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 56.48835 0.31248764 3 56.12753 56.66939 56.39784 56.66815  
## WT/BR:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 59.99551  
## BL/BR:AftLow 59.45000  
## BLK:AftHigh 58.33434  
## BLK:AftLow 56.50000  
## BRN:AftHigh 56.58402  
## BRN:AftLow 53.10000  
## WHT:AftHigh 56.81643  
## WHT:AftLow 53.80000  
## WT/BLK:AftHigh 58.09593  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 56.66877  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.28657 a  
## BLK:AftHigh 58.20219 ab  
## BL/BR:AftLow 58.16667 ab  
## WT/BLK:AftHigh 57.87886 ab  
## WHT:AftHigh 56.78194 ab  
## WT/BR:AftHigh 56.48835 b  
## BRN:AftHigh 56.47018 b  
## BLK:AftLow 56.23333 bc  
## WT/BLK:AftLow 55.70000 bcd  
## WHT:AftLow 53.76667 cde  
## WT/BR:AftLow 53.43333 de  
## BRN:AftLow 52.90000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT7 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 65.438 13.088 29.8610 1.47e-09 \*\*\*  
## THIregime 1 37.034 37.034 84.4976 2.48e-09 \*\*\*  
## Colour:THIregime 5 4.544 0.909 2.0737 0.1041   
## Residuals 24 10.519 0.438   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4382851   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.52271 0.9578949 6 55.2 57.48655  
## BLK 58.02962 0.4833916 6 57.3 58.59467  
## BRN 54.66213 1.4429383 6 52.6 56.14843  
## WHT 55.47837 1.2098638 6 53.7 56.71910  
## WT/BLK 55.80735 1.4545153 6 53.6 57.65381  
## WT/BR 53.78538 1.8991494 6 51.3 55.99610  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.18181   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.02962 a  
## BL/BR 56.52271 b  
## WT/BLK 55.80735 bc  
## WHT 55.47837 bc  
## BRN 54.66213 cd  
## WT/BR 53.78538 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4382851   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.72852 1.100304 18 54.96713 58.59467  
## AftLow 54.70000 1.877420 18 51.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4554549   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.72852 a  
## AftLow 54.70000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4382851 24 55.71426 1.188261 1.949009  
##   
## $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 57.34542 0.2309956 3 57.07884 57.48655 57.27485 57.47087  
## BL/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 58.42591 0.1723593 3 58.25016 58.59467 58.34152 58.43288  
## BLK:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BRN:AftHigh 55.89093 0.3898705 3 55.44239 56.14843 55.76218 56.08198  
## BRN:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WHT:AftHigh 56.49007 0.3814101 3 56.04977 56.71910 56.37555 56.70133  
## WHT:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BLK:AftHigh 56.88138 0.7843081 3 56.08571 57.65381 56.49516 56.90461  
## WT/BLK:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## WT/BR:AftHigh 55.33742 0.5719055 3 54.96713 55.99610 55.00808 55.04902  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 57.47871  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 58.51378  
## BLK:AftLow 57.80000  
## BRN:AftHigh 56.11521  
## BRN:AftLow 53.85000  
## WHT:AftHigh 56.71022  
## WHT:AftLow 54.85000  
## WT/BLK:AftHigh 57.27921  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 55.52256  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.42591 a  
## BLK:AftLow 57.63333 ab  
## BL/BR:AftHigh 57.34542 ab  
## WT/BLK:AftHigh 56.88138 abc  
## WHT:AftHigh 56.49007 abcd  
## BRN:AftHigh 55.89093 bcde  
## BL/BR:AftLow 55.70000 bcde  
## WT/BR:AftHigh 55.33742 cdef  
## WT/BLK:AftLow 54.73333 def  
## WHT:AftLow 54.46667 ef  
## BRN:AftLow 53.43333 fg  
## WT/BR:AftLow 52.23333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT8 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 17.572 3.514 2.8887 0.0352 \*   
## THIregime 1 55.273 55.273 45.4333 5.684e-07 \*\*\*  
## Colour:THIregime 5 1.520 0.304 0.2499 0.9358   
## Residuals 24 29.198 1.217   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.216581   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.40846 1.776253 6 52.8 57.61199  
## BLK 56.01371 1.173294 6 54.6 57.34969  
## BRN 53.80700 1.924152 6 51.3 56.06829  
## WHT 55.58206 1.378246 6 53.6 57.23238  
## WT/BLK 54.98593 2.281950 6 51.6 58.09811  
## WT/BR 55.50410 1.362831 6 53.6 56.90112  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.968973   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.01371 a  
## WHT 55.58206 ab  
## WT/BR 55.50410 ab  
## BL/BR 55.40846 ab  
## WT/BLK 54.98593 ab  
## BRN 53.80700 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.216581   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.45598 0.8615409 18 54.94381 58.09811  
## AftLow 53.97778 1.4485512 18 51.30000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7588179   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.45598 a  
## AftLow 53.97778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.216581 24 55.21688 1.997555 3.247177  
##   
## $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 56.58358 0.9389369 3 55.77209 57.61199 56.06938 56.36666  
## BL/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## BLK:AftHigh 57.02743 0.2805258 3 56.83794 57.34969 56.86630 56.89465  
## BLK:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BRN:AftHigh 55.38067 0.6027187 3 54.94381 56.06829 55.03686 55.12992  
## BRN:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## WHT:AftHigh 56.63078 0.5532737 3 56.14379 57.23238 56.32998 56.51617  
## WHT:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BLK:AftHigh 56.43853 1.4814765 3 55.24939 58.09811 55.60875 55.96810  
## WT/BLK:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## WT/BR:AftHigh 56.67487 0.3432962 3 56.27986 56.90112 56.56174 56.84363  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 56.98933  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 57.12217  
## BLK:AftLow 55.20000  
## BRN:AftHigh 55.59910  
## BRN:AftLow 52.70000  
## WHT:AftHigh 56.87428  
## WHT:AftLow 55.00000  
## WT/BLK:AftHigh 57.03310  
## WT/BLK:AftLow 54.50000  
## WT/BR:AftHigh 56.87237  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.02743 a  
## WT/BR:AftHigh 56.67487 ab  
## WHT:AftHigh 56.63078 ab  
## BL/BR:AftHigh 56.58358 ab  
## WT/BLK:AftHigh 56.43853 ab  
## BRN:AftHigh 55.38067 abc  
## BLK:AftLow 55.00000 abc  
## WHT:AftLow 54.53333 abc  
## WT/BR:AftLow 54.33333 abc  
## BL/BR:AftLow 54.23333 abc  
## WT/BLK:AftLow 53.53333 bc  
## BRN:AftLow 52.23333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT9 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 29.166 5.833 7.8847 0.0001642 \*\*\*  
## THIregime 1 52.184 52.184 70.5377 1.32e-08 \*\*\*  
## Colour:THIregime 5 1.881 0.376 0.5084 0.7670308   
## Residuals 24 17.755 0.740   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7398012   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.13306 2.165727 6 51.6 57.74528  
## BLK 57.96251 1.076135 6 56.1 59.04372  
## BRN 55.67180 1.538615 6 53.6 57.27184  
## WHT 55.80247 1.405507 6 54.2 57.16015  
## WT/BLK 56.18241 1.397290 6 54.3 57.88903  
## WT/BR 55.67160 1.490073 6 53.7 57.20952  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.535418   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.96251 a  
## WT/BLK 56.18241 b  
## WHT 55.80247 b  
## BRN 55.67180 b  
## WT/BR 55.67160 b  
## BL/BR 55.13306 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7398012   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.27461 0.8589198 18 55.41782 59.04372  
## AftLow 54.86667 1.4604592 18 51.60000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5917313   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.27461 a  
## AftLow 54.86667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7398012 24 56.07064 1.533988 2.53217  
##   
## $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 56.56611 1.1640407 3 55.41782 57.74528 55.97652 56.53523  
## BL/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## BLK:AftHigh 58.69169 0.5716122 3 58.03215 59.04372 58.51567 58.99919  
## BLK:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BRN:AftHigh 57.01026 0.3613400 3 56.59796 57.27184 56.87947 57.16098  
## BRN:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## WHT:AftHigh 57.07161 0.1521741 3 56.89590 57.16015 57.02734 57.15878  
## WHT:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BLK:AftHigh 57.33148 0.5163454 3 56.86976 57.88903 57.05271 57.23565  
## WT/BLK:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## WT/BR:AftHigh 56.97654 0.3144518 3 56.61886 57.20952 56.86005 57.10124  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 57.14026  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 59.02146  
## BLK:AftLow 57.80000  
## BRN:AftHigh 57.21641  
## BRN:AftLow 54.70000  
## WHT:AftHigh 57.15947  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 57.56234  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.15538  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.69169 a  
## WT/BLK:AftHigh 57.33148 ab  
## BLK:AftLow 57.23333 ab  
## WHT:AftHigh 57.07161 ab  
## BRN:AftHigh 57.01026 abc  
## WT/BR:AftHigh 56.97654 abc  
## BL/BR:AftHigh 56.56611 abcd  
## WT/BLK:AftLow 55.03333 bcde  
## WHT:AftLow 54.53333 cde  
## WT/BR:AftLow 54.36667 de  
## BRN:AftLow 54.33333 de  
## BL/BR:AftLow 53.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT10 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 8.480 1.696 6.8918 0.0004072 \*\*\*  
## THIregime 1 56.369 56.369 229.0732 8.929e-14 \*\*\*  
## Colour:THIregime 5 0.406 0.081 0.3300 0.8898438   
## Residuals 24 5.906 0.246   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2460756   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.84381 1.298168 6 55.2 58.23923  
## BLK 55.48758 1.594123 6 53.7 57.21076  
## BRN 55.69602 1.515126 6 53.7 57.25432  
## WHT 56.44218 1.387886 6 54.3 57.95821  
## WT/BLK 56.59736 1.433257 6 54.6 58.12424  
## WT/BR 56.37433 1.426076 6 54.7 57.88031  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8855303   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.84381 a  
## WT/BLK 56.59736 a  
## WHT 56.44218 ab  
## WT/BR 56.37433 ab  
## BRN 55.69602 bc  
## BLK 55.48758 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2460756   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.49154 0.5002077 18 56.67676 58.23923  
## AftLow 54.98889 0.7873178 18 53.70000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3412725   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.49154 a  
## AftLow 54.98889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2460756 24 56.24021 0.882038 1.460393  
##   
## $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 57.98761 0.2796840 3 57.68648 58.23923 57.86180 58.03712  
## BL/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 56.90850 0.2696839 3 56.69250 57.21076 56.75737 56.82224  
## BLK:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## BRN:AftHigh 57.02538 0.3068117 3 56.67676 57.25432 56.91091 57.14505  
## BRN:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## WHT:AftHigh 57.55104 0.5134021 3 56.97430 57.95821 57.34745 57.72060  
## WHT:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BLK:AftHigh 57.82804 0.3852882 3 57.39246 58.12424 57.67995 57.96743  
## WT/BLK:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## WT/BR:AftHigh 57.64867 0.2290385 3 57.42233 57.88031 57.53284 57.64336  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 58.13818  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 57.01650  
## BLK:AftLow 54.25000  
## BRN:AftHigh 57.19968  
## BRN:AftLow 54.70000  
## WHT:AftHigh 57.83940  
## WHT:AftLow 55.85000  
## WT/BLK:AftHigh 58.04584  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 57.76183  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.98761 a  
## WT/BLK:AftHigh 57.82804 a  
## WT/BR:AftHigh 57.64867 a  
## WHT:AftHigh 57.55104 a  
## BRN:AftHigh 57.02538 ab  
## BLK:AftHigh 56.90850 ab  
## BL/BR:AftLow 55.70000 bc  
## WT/BLK:AftLow 55.36667 cd  
## WHT:AftLow 55.33333 cd  
## WT/BR:AftLow 55.10000 cd  
## BRN:AftLow 54.36667 cd  
## BLK:AftLow 54.06667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT11 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 137.969 27.594 6.9483 0.000386 \*\*\*  
## THIregime 1 87.548 87.548 22.0451 9.013e-05 \*\*\*  
## Colour:THIregime 5 5.574 1.115 0.2807 0.919096   
## Residuals 24 95.312 3.971   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.971315   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.41185 1.992523 6 53.6 58.59467  
## BLK 56.73172 1.196790 6 55.4 58.00974  
## BRN 53.42504 2.650580 6 50.4 56.67274  
## WHT 54.65941 2.021629 6 51.6 56.73909  
## WT/BLK 59.56518 4.231276 6 54.8 64.70000  
## WT/BR 57.39684 1.807779 6 55.3 59.19578  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.55743   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 59.56518 a  
## WT/BR 57.39684 ab  
## BLK 56.73172 abc  
## BL/BR 56.41185 abc  
## WHT 54.65941 bc  
## BRN 53.42504 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.971315   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.92446 2.116130 18 55.05425 64.60572  
## AftLow 54.80556 3.093917 18 50.40000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.37099   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.92446 a  
## AftLow 54.80556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.971315 24 56.36501 3.535555 5.866818  
##   
## $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 58.09036 0.5097159 3 57.57541 58.59467 57.83821 58.10101  
## BL/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## BLK:AftHigh 57.79676 0.1855874 3 57.66972 58.00974 57.69028 57.71083  
## BLK:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BRN:AftHigh 55.65008 0.8896721 3 55.05425 56.67274 55.13875 55.22326  
## BRN:AftLow 51.20000 1.3856406 3 50.40000 52.80000 50.40000 50.40000  
## WHT:AftHigh 56.31882 0.6975255 3 55.51364 56.73909 56.10868 56.70373  
## WHT:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BLK:AftHigh 60.66369 3.4199006 3 58.49013 64.60572 58.69268 58.89522  
## WT/BLK:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## WT/BR:AftHigh 59.02702 0.1562454 3 58.88738 59.19578 58.94264 58.99790  
## WT/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 58.34784  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 57.86029  
## BLK:AftLow 55.80000  
## BRN:AftHigh 55.94800  
## BRN:AftLow 51.60000  
## WHT:AftHigh 56.72141  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 61.75047  
## WT/BLK:AftLow 60.30000  
## WT/BR:AftHigh 59.09684  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.66369 a  
## WT/BR:AftHigh 59.02702 ab  
## WT/BLK:AftLow 58.46667 abc  
## BL/BR:AftHigh 58.09036 abc  
## BLK:AftHigh 57.79676 abc  
## WHT:AftHigh 56.31882 abcd  
## WT/BR:AftLow 55.76667 abcd  
## BLK:AftLow 55.66667 abcd  
## BRN:AftHigh 55.65008 abcd  
## BL/BR:AftLow 54.73333 bcd  
## WHT:AftLow 53.00000 cd  
## BRN:AftLow 51.20000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT12 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 25.253 5.051 2.1125 0.0987266 .   
## THIregime 1 44.412 44.412 18.5759 0.0002401 \*\*\*  
## Colour:THIregime 5 2.550 0.510 0.2133 0.9534818   
## Residuals 24 57.381 2.391   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.39086   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.96873 2.203264 6 51.6 57.72568  
## BLK 57.12270 1.598015 6 54.2 58.40604  
## BRN 54.56875 2.587727 6 50.1 57.33646  
## WHT 55.59081 1.226321 6 53.8 57.01735  
## WT/BLK 56.21713 1.346563 6 54.2 57.86289  
## WT/BR 55.36281 1.856652 6 52.7 57.63888  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.760236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.12270 a  
## WT/BLK 56.21713 a  
## WHT 55.59081 a  
## WT/BR 55.36281 a  
## BL/BR 54.96873 a  
## BRN 54.56875 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.39086   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.74920 1.102614 18 54.03914 58.40604  
## AftLow 54.52778 1.948093 18 50.10000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.063761   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.74920 a  
## AftLow 54.52778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.39086 24 55.63849 2.779084 4.552107  
##   
## $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 56.40412 1.2089382 3 55.35393 57.72568 55.74334 56.13275  
## BL/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## BLK:AftHigh 57.74541 1.1184138 3 56.45409 58.40604 57.41509 58.37609  
## BLK:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## BRN:AftHigh 55.80417 1.6609354 3 54.03914 57.33646 55.03803 56.03692  
## BRN:AftLow 53.33333 3.0664855 3 50.10000 56.20000 51.90000 53.70000  
## WHT:AftHigh 56.58162 0.4177877 3 56.18444 57.01735 56.36376 56.54307  
## WHT:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BLK:AftHigh 57.26759 0.6777393 3 56.53001 57.86289 56.96994 57.40988  
## WT/BLK:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## WT/BR:AftHigh 56.69229 0.8786471 3 55.90277 57.63888 56.21900 56.53523  
## WT/BR:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 56.92922  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 58.39106  
## BLK:AftLow 57.65000  
## BRN:AftHigh 56.68669  
## BRN:AftLow 54.95000  
## WHT:AftHigh 56.78021  
## WHT:AftLow 55.00000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.65000  
## WT/BR:AftHigh 57.08705  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.74541 a  
## WT/BLK:AftHigh 57.26759 a  
## WT/BR:AftHigh 56.69229 a  
## WHT:AftHigh 56.58162 a  
## BLK:AftLow 56.50000 a  
## BL/BR:AftHigh 56.40412 a  
## BRN:AftHigh 55.80417 a  
## WT/BLK:AftLow 55.16667 a  
## WHT:AftLow 54.60000 a  
## WT/BR:AftLow 54.03333 a  
## BL/BR:AftLow 53.53333 a  
## BRN:AftLow 53.33333 a  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT13 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 10.957 2.191 6.6171 0.0005299 \*\*\*  
## THIregime 1 58.698 58.698 177.2481 1.414e-12 \*\*\*  
## Colour:THIregime 5 1.005 0.201 0.6069 0.6953425   
## Residuals 24 7.948 0.331   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.331165   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.19564 1.401998 6 54.3 57.84721  
## BLK 56.46969 1.223293 6 54.7 57.73097  
## BRN 55.73531 1.474983 6 54.2 57.23192  
## WHT 54.74078 1.726043 6 53.1 56.34416  
## WT/BLK 56.02799 1.536508 6 53.8 57.88903  
## WT/BR 55.59207 1.597669 6 53.2 57.26552  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.027286   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.46969 a  
## BL/BR 56.19564 a  
## WT/BLK 56.02799 a  
## BRN 55.73531 ab  
## WT/BR 55.59207 ab  
## WHT 54.74078 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.331165   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.07050 0.5215686 18 56.27634 57.88903  
## AftLow 54.51667 0.9482181 18 53.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3959034   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.07050 a  
## AftLow 54.51667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.331165 24 55.79358 1.031426 1.694173  
##   
## $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 57.35795 0.45582261 3 56.94526 57.84721 57.11332 57.28139  
## BL/BR:AftLow 55.03333 0.80829038 3 54.30000 55.90000 54.60000 54.90000  
## BLK:AftHigh 57.50605 0.32504094 3 57.13338 57.73097 57.39360 57.65381  
## BLK:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BRN:AftHigh 57.07063 0.14055892 3 56.97430 57.23192 56.98998 57.00566  
## BRN:AftLow 54.40000 0.26457513 3 54.20000 54.70000 54.25000 54.30000  
## WHT:AftHigh 56.31490 0.03484965 3 56.27634 56.34416 56.30027 56.32419  
## WHT:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BLK:AftHigh 57.25598 0.61504202 3 56.66068 57.88903 56.93945 57.21823  
## WT/BLK:AftLow 54.80000 1.00000000 3 53.80000 55.80000 54.30000 54.80000  
## WT/BR:AftHigh 56.91747 0.49796869 3 56.34706 57.26552 56.74344 57.13982  
## WT/BR:AftLow 54.26667 0.92915732 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 57.56430  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 57.69239  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.11879  
## BRN:AftLow 54.50000  
## WHT:AftHigh 56.33417  
## WHT:AftLow 53.20000  
## WT/BLK:AftHigh 57.55363  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.20267  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.50605 a  
## BL/BR:AftHigh 57.35795 a  
## WT/BLK:AftHigh 57.25598 a  
## BRN:AftHigh 57.07063 ab  
## WT/BR:AftHigh 56.91747 ab  
## WHT:AftHigh 56.31490 abc  
## BLK:AftLow 55.43333 bcd  
## BL/BR:AftLow 55.03333 cd  
## WT/BLK:AftLow 54.80000 cde  
## BRN:AftLow 54.40000 de  
## WT/BR:AftLow 54.26667 de  
## WHT:AftLow 53.16667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT14 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 17.742 3.548 17.2023 3.009e-07 \*\*\*  
## THIregime 1 48.470 48.470 234.9839 6.761e-14 \*\*\*  
## Colour:THIregime 5 0.941 0.188 0.9127 0.4894   
## Residuals 24 4.950 0.206   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2062693   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.34564 1.169866 6 54.6 57.57831  
## BLK 56.14033 1.473703 6 54.6 57.54180  
## BRN 57.18620 1.199521 6 55.7 58.61477  
## WHT 56.37282 1.485268 6 54.6 58.13077  
## WT/BLK 55.79504 1.202115 6 54.6 56.97430  
## WT/BR 54.85533 1.497336 6 53.2 56.32615  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8107492   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.18620 a  
## WHT 56.37282 b  
## BL/BR 56.34564 b  
## BLK 56.14033 b  
## WT/BLK 55.79504 b  
## WT/BR 54.85533 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2062693   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.27623 0.6681342 18 56.03344 58.61477  
## AftLow 54.95556 0.9714890 18 53.20000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3124528   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.27623 a  
## AftLow 54.95556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2062693 24 56.1159 0.8093408 1.337066  
##   
## $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 57.32461 0.32091590 3 56.96385 57.57831 57.19775 57.43166  
## BL/BR:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## BLK:AftHigh 57.48067 0.10006620 3 57.36519 57.54180 57.45010 57.53501  
## BLK:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BRN:AftHigh 58.13907 0.41220547 3 57.88728 58.61477 57.90122 57.91516  
## BRN:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## WHT:AftHigh 57.61232 0.45022537 3 57.31986 58.13077 57.35309 57.38631  
## WHT:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## WT/BLK:AftHigh 56.89009 0.07306037 3 56.84363 56.97430 56.84798 56.85234  
## WT/BLK:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## WT/BR:AftHigh 56.21066 0.15581359 3 56.03344 56.32615 56.15291 56.27239  
## WT/BR:AftLow 53.50000 0.26457513 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 57.50499  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 57.53841  
## BLK:AftLow 54.90000  
## BRN:AftHigh 58.26497  
## BRN:AftLow 56.50000  
## WHT:AftHigh 57.75854  
## WHT:AftLow 55.40000  
## WT/BLK:AftHigh 56.91332  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 56.29927  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.13907 a  
## WHT:AftHigh 57.61232 a  
## BLK:AftHigh 57.48067 ab  
## BL/BR:AftHigh 57.32461 ab  
## WT/BLK:AftHigh 56.89009 ab  
## BRN:AftLow 56.23333 bc  
## WT/BR:AftHigh 56.21066 bc  
## BL/BR:AftLow 55.36667 cd  
## WHT:AftLow 55.13333 cd  
## BLK:AftLow 54.80000 de  
## WT/BLK:AftLow 54.70000 de  
## WT/BR:AftLow 53.50000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT15 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 54.555 10.911 17.5071 2.564e-07 \*\*\*  
## THIregime 1 51.554 51.554 82.7212 3.030e-09 \*\*\*  
## Colour:THIregime 5 4.317 0.863 1.3854 0.2649   
## Residuals 24 14.958 0.623   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.62323   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.22477 1.3293537 6 54.6 57.76488  
## BLK 57.32259 1.8827324 6 53.9 59.18782  
## BRN 58.27672 0.7367053 6 57.3 59.09995  
## WHT 54.64158 1.9679605 6 52.5 56.75070  
## WT/BLK 56.32464 1.3735455 6 54.7 57.81062  
## WT/BR 55.12318 1.5974137 6 53.6 56.68159  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.409267   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 58.27672 a  
## BLK 57.32259 ab  
## WT/BLK 56.32464 bc  
## BL/BR 56.22477 bc  
## WT/BR 55.12318 cd  
## WHT 54.64158 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.62323   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.51560 1.022642 18 56.1595 59.18782  
## AftLow 55.12222 1.815798 18 52.5000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5431143   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.51560 a  
## AftLow 55.12222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.62323 24 56.31891 1.401748 2.324126  
##   
## $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 57.34953 0.36422675 3 57.08465 57.76488 57.14185 57.19906  
## BL/BR:AftLow 55.10000 0.70000000 3 54.60000 55.90000 54.70000 54.80000  
## BLK:AftHigh 58.31185 1.16725075 3 56.98675 59.18782 57.87386 58.76098  
## BLK:AftLow 56.33333 2.13619600 3 53.90000 57.90000 55.55000 57.20000  
## BRN:AftHigh 58.92010 0.17799678 3 58.74401 59.09995 58.83017 58.91633  
## BRN:AftLow 57.63333 0.28867513 3 57.30000 57.80000 57.55000 57.80000  
## WHT:AftHigh 56.38315 0.32079411 3 56.15950 56.75070 56.19938 56.23925  
## WHT:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WT/BLK:AftHigh 57.54927 0.23953123 3 57.34019 57.81062 57.41860 57.49700  
## WT/BLK:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 56.57970 0.10796998 3 56.46653 56.68159 56.52876 56.59099  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 57.48197  
## BL/BR:AftLow 55.35000  
## BLK:AftHigh 58.97440  
## BLK:AftLow 57.55000  
## BRN:AftHigh 59.00814  
## BRN:AftLow 57.80000  
## WHT:AftHigh 56.49498  
## WHT:AftLow 53.10000  
## WT/BLK:AftHigh 57.65381  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 56.63629  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.92010 a  
## BLK:AftHigh 58.31185 ab  
## BRN:AftLow 57.63333 ab  
## WT/BLK:AftHigh 57.54927 ab  
## BL/BR:AftHigh 57.34953 abc  
## WT/BR:AftHigh 56.57970 bc  
## WHT:AftHigh 56.38315 bc  
## BLK:AftLow 56.33333 bc  
## BL/BR:AftLow 55.10000 cd  
## WT/BLK:AftLow 55.10000 cd  
## WT/BR:AftLow 53.66667 d  
## WHT:AftLow 52.90000 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 8.486 1.697 6.7805 0.0004528 \*\*\*  
## THIregime 1 52.923 52.923 211.4306 2.133e-13 \*\*\*  
## Colour:THIregime 5 1.135 0.227 0.9066 0.4930974   
## Residuals 24 6.007 0.250   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2503067   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.14463 1.253382 6 54.2 57.59631  
## BLK 55.24067 1.612791 6 53.1 57.07137  
## BRN 56.14662 1.312333 6 54.6 57.62021  
## WHT 54.91671 1.703455 6 52.6 56.62583  
## WT/BLK 55.50923 1.154823 6 54.3 56.69988  
## WT/BR 55.08360 1.372315 6 53.7 56.37842  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.893111   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 56.14662 a  
## BL/BR 56.14463 a  
## WT/BLK 55.50923 ab  
## BLK 55.24067 b  
## WT/BR 55.08360 b  
## WHT 54.91671 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2503067   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.71937 0.4764220 18 55.98444 57.62021  
## AftLow 54.29444 0.8320578 18 52.60000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.344194   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.71937 a  
## AftLow 54.29444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2503067 24 55.50691 0.9013412 1.472895  
##   
## $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 57.12259 0.54300093 3 56.53001 57.59631 56.88573 57.24146  
## BL/BR:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## BLK:AftHigh 56.61467 0.44246199 3 56.18798 57.07137 56.38631 56.58465  
## BLK:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BRN:AftHigh 57.29325 0.28513014 3 57.09626 57.62021 57.12977 57.16328  
## BRN:AftLow 55.00000 0.52915026 3 54.60000 55.60000 54.70000 54.80000  
## WHT:AftHigh 56.40008 0.36040176 3 55.98444 56.62583 56.28720 56.58996  
## WHT:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## WT/BLK:AftHigh 56.55178 0.22342495 3 56.29479 56.69988 56.47774 56.66068  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 56.33387 0.07268999 3 56.24999 56.37842 56.31159 56.37320  
## WT/BR:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 57.41889  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 56.82801  
## BLK:AftLow 54.25000  
## BRN:AftHigh 57.39174  
## BRN:AftLow 55.20000  
## WHT:AftHigh 56.60790  
## WHT:AftLow 53.85000  
## WT/BLK:AftHigh 56.68028  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 56.37581  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.29325 a  
## BL/BR:AftHigh 57.12259 a  
## BLK:AftHigh 56.61467 ab  
## WT/BLK:AftHigh 56.55178 ab  
## WHT:AftHigh 56.40008 abc  
## WT/BR:AftHigh 56.33387 abc  
## BL/BR:AftLow 55.16667 bcd  
## BRN:AftLow 55.00000 cd  
## WT/BLK:AftLow 54.46667 de  
## BLK:AftLow 53.86667 de  
## WT/BR:AftLow 53.83333 de  
## WHT:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT17 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 101.538 20.308 22.1962 2.767e-08 \*\*\*  
## THIregime 1 42.986 42.986 46.9842 4.338e-07 \*\*\*  
## Colour:THIregime 5 6.860 1.372 1.4996 0.2271   
## Residuals 24 21.958 0.915   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9149124   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.72473 1.2573562 6 53.8 57.27747  
## BLK 58.25034 0.7484811 6 57.1 59.13328  
## BRN 57.85706 1.0046272 6 56.1 58.83860  
## WHT 54.01560 2.1293455 6 51.3 56.46612  
## WT/BLK 55.11984 1.3958719 6 53.1 56.72602  
## WT/BR 54.05550 2.1743685 6 51.4 56.92203  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.707493   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.25034 a  
## BRN 57.85706 a  
## BL/BR 55.72473 b  
## WT/BLK 55.11984 bc  
## WT/BR 54.05550 bc  
## WHT 54.01560 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9149124   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.92991 1.436734 18 54.80136 59.13328  
## AftLow 54.74444 2.367233 18 51.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6580469   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.92991 a  
## AftLow 54.74444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9149124 24 55.83718 1.713035 2.815952  
##   
## $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 56.64945 0.6220998 3 56.03344 57.27747 56.33544 56.63745  
## BL/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## BLK:AftHigh 58.83402 0.3394019 3 58.46524 59.13328 58.68439 58.90354  
## BLK:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BRN:AftHigh 58.48078 0.6186790 3 57.76639 58.83860 58.30187 58.83735  
## BRN:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## WHT:AftHigh 55.79788 0.5852121 3 55.37680 56.46612 55.46375 55.55071  
## WHT:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## WT/BLK:AftHigh 56.27301 0.5276315 3 55.69369 56.72602 56.04651 56.39933  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 55.54434 1.1943403 3 54.80136 56.92203 54.85550 54.90964  
## WT/BR:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 56.95746  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 59.01841  
## BLK:AftLow 57.95000  
## BRN:AftHigh 58.83797  
## BRN:AftLow 57.80000  
## WHT:AftHigh 56.00842  
## WHT:AftLow 52.70000  
## WT/BLK:AftHigh 56.56267  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 55.91583  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.83402 a  
## BRN:AftHigh 58.48078 ab  
## BLK:AftLow 57.66667 abc  
## BRN:AftLow 57.23333 abcd  
## BL/BR:AftHigh 56.64945 abcde  
## WT/BLK:AftHigh 56.27301 abcde  
## WHT:AftHigh 55.79788 bcde  
## WT/BR:AftHigh 55.54434 cde  
## BL/BR:AftLow 54.80000 def  
## WT/BLK:AftLow 53.96667 ef  
## WT/BR:AftLow 52.56667 f  
## WHT:AftLow 52.23333 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 13.375 2.675 12.2771 5.622e-06 \*\*\*  
## THIregime 1 44.800 44.800 205.6078 2.884e-13 \*\*\*  
## Colour:THIregime 5 0.996 0.199 0.9141 0.4886   
## Residuals 24 5.229 0.218   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2178903   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.86372 1.2767135 6 54.6 57.06577  
## BLK 56.50597 1.3755589 6 54.8 58.22423  
## BRN 55.41035 1.5118010 6 53.7 57.05874  
## WHT 55.60228 1.4650736 6 53.6 57.12131  
## WT/BLK 54.80495 1.1399962 6 53.7 55.91583  
## WT/BR 56.53934 0.9753434 6 55.2 57.55674  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8332746   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.53934 a  
## BLK 56.50597 a  
## BL/BR 55.86372 ab  
## WHT 55.60228 bc  
## BRN 55.41035 bc  
## WT/BLK 54.80495 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2178903   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.90331 0.6242365 18 55.71982 58.22423  
## AftLow 54.67222 0.8736708 18 53.60000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3211338   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.90331 a  
## AftLow 54.67222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2178903 24 55.78777 0.8367197 1.374214  
##   
## $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 57.02744 0.04750056 3 56.97430 57.06577 57.00828 57.04225  
## BL/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## BLK:AftHigh 57.54527 0.58876244 3 57.17591 58.22423 57.20578 57.23565  
## BLK:AftLow 55.46667 1.06926766 3 54.80000 56.70000 54.85000 54.90000  
## BRN:AftHigh 56.75404 0.27211603 3 56.53523 57.05874 56.60169 56.66815  
## BRN:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## WHT:AftHigh 56.87122 0.34945689 3 56.47193 57.12131 56.74617 57.02042  
## WHT:AftLow 54.33333 0.64291005 3 53.60000 54.80000 54.10000 54.60000  
## WT/BLK:AftHigh 55.84324 0.10743408 3 55.71982 55.91583 55.80694 55.89405  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 57.37869 0.23397383 3 57.11369 57.55674 57.28966 57.46564  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.05401  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 57.72994  
## BLK:AftLow 55.80000  
## BRN:AftHigh 56.86344  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.07086  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 55.90494  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 57.51119  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.54527 a  
## WT/BR:AftHigh 57.37869 a  
## BL/BR:AftHigh 57.02744 ab  
## WHT:AftHigh 56.87122 ab  
## BRN:AftHigh 56.75404 abc  
## WT/BLK:AftHigh 55.84324 bcd  
## WT/BR:AftLow 55.70000 bcde  
## BLK:AftLow 55.46667 cde  
## BL/BR:AftLow 54.70000 def  
## WHT:AftLow 54.33333 ef  
## BRN:AftLow 54.06667 f  
## WT/BLK:AftLow 53.76667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT19 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 9.221 1.844 4.0967 0.007863 \*\*   
## THIregime 1 51.176 51.176 113.6823 1.385e-10 \*\*\*  
## Colour:THIregime 5 0.422 0.084 0.1876 0.964487   
## Residuals 24 10.804 0.450   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4501674   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.20824 1.247137 6 54.7 57.54346  
## BLK 56.72137 1.222563 6 55.2 57.96516  
## BRN 56.77564 1.243670 6 55.4 58.09609  
## WHT 55.76546 1.587884 6 53.7 57.39246  
## WT/BLK 55.67257 1.413848 6 53.7 57.13111  
## WT/BR 55.47712 1.833951 6 52.8 57.75088  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.197722   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 56.77564 a  
## BLK 56.72137 a  
## BL/BR 56.20824 ab  
## WHT 55.76546 ab  
## WT/BLK 55.67257 ab  
## WT/BR 55.47712 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4501674   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.29569 0.5945515 18 55.87663 58.09609  
## AftLow 54.91111 0.9215645 18 52.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4615875   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.29569 a  
## AftLow 54.91111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4501674 24 56.1034 1.195908 1.975252  
##   
## $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 57.31647 0.2093034 3 57.13111 57.54346 57.20298 57.27485  
## BL/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## BLK:AftHigh 57.80941 0.2045327 3 57.57778 57.96516 57.73154 57.88529  
## BLK:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## BRN:AftHigh 57.88462 0.1842889 3 57.75835 58.09609 57.77888 57.79942  
## BRN:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## WHT:AftHigh 57.16426 0.3003247 3 56.82402 57.39246 57.05016 57.27630  
## WHT:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## WT/BLK:AftHigh 56.87847 0.4375824 3 56.37320 57.13111 56.75215 57.13111  
## WT/BLK:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 56.72091 0.9508231 3 55.87663 57.75088 56.20593 56.53523  
## WT/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 57.40916  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 57.92522  
## BLK:AftLow 55.85000  
## BRN:AftHigh 57.94776  
## BRN:AftLow 55.80000  
## WHT:AftHigh 57.33438  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 57.13111  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 57.14306  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.88462 a  
## BLK:AftHigh 57.80941 a  
## BL/BR:AftHigh 57.31647 ab  
## WHT:AftHigh 57.16426 ab  
## WT/BLK:AftHigh 56.87847 abc  
## WT/BR:AftHigh 56.72091 abc  
## BRN:AftLow 55.66667 bcd  
## BLK:AftLow 55.63333 bcd  
## BL/BR:AftLow 55.10000 cd  
## WT/BLK:AftLow 54.46667 d  
## WHT:AftLow 54.36667 d  
## WT/BR:AftLow 54.23333 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT20 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 15.858 3.172 2.6119 0.05058 .   
## THIregime 1 51.798 51.798 42.6577 9.367e-07 \*\*\*  
## Colour:THIregime 5 1.534 0.307 0.2527 0.93429   
## Residuals 24 29.142 1.214   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.214263   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.64919 1.300341 6 54.3 56.90461  
## BLK 55.90548 1.651134 6 53.7 57.90152  
## BRN 57.27701 1.684125 6 54.2 58.74103  
## WHT 56.27886 1.322695 6 54.7 57.67533  
## WT/BLK 55.87433 1.681108 6 53.6 57.99357  
## WT/BR 55.11218 2.160038 6 51.6 57.76880  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.967096   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.27701 a  
## WHT 56.27886 ab  
## BLK 55.90548 ab  
## WT/BLK 55.87433 ab  
## BL/BR 55.64919 ab  
## WT/BR 55.11218 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.214263   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.21569 0.8270894 18 55.34522 58.74103  
## AftLow 54.81667 1.4329115 18 51.60000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7580946   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.21569 a  
## AftLow 54.81667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.214263 24 56.01618 1.967175 3.244082  
##   
## $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 56.83172 0.09370746 3 56.72602 56.90461 56.79528 56.86453  
## BL/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## BLK:AftHigh 57.21097 0.61053227 3 56.74282 57.90152 56.86569 56.98856  
## BLK:AftLow 54.60000 1.15325626 3 53.70000 55.90000 53.95000 54.20000  
## BRN:AftHigh 58.05403 1.14430574 3 56.73305 58.74103 57.71053 58.68801  
## BRN:AftLow 56.50000 1.99248588 3 54.20000 57.70000 55.90000 57.60000  
## WHT:AftHigh 57.45771 0.21142894 3 57.25307 57.67533 57.34890 57.44473  
## WHT:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BLK:AftHigh 57.21532 0.72607095 3 56.55614 57.99357 56.82620 57.09626  
## WT/BLK:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 56.52436 1.21311152 3 55.34522 57.76880 55.90214 56.45907  
## WT/BR:AftLow 53.70000 2.05182845 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 56.88457  
## BL/BR:AftLow 54.55000  
## BLK:AftHigh 57.44504  
## BLK:AftLow 55.05000  
## BRN:AftHigh 58.71452  
## BRN:AftLow 57.65000  
## WHT:AftHigh 57.56003  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 57.54491  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.11394  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.05403 a  
## WHT:AftHigh 57.45771 ab  
## WT/BLK:AftHigh 57.21532 ab  
## BLK:AftHigh 57.21097 ab  
## BL/BR:AftHigh 56.83172 abc  
## WT/BR:AftHigh 56.52436 abc  
## BRN:AftLow 56.50000 abc  
## WHT:AftLow 55.10000 abc  
## BLK:AftLow 54.60000 bc  
## WT/BLK:AftLow 54.53333 bc  
## BL/BR:AftLow 54.46667 bc  
## WT/BR:AftLow 53.70000 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 10.855 2.171 8.4796 9.817e-05 \*\*\*  
## THIregime 1 51.321 51.321 200.4614 3.791e-13 \*\*\*  
## Colour:THIregime 5 0.735 0.147 0.5740 0.7192   
## Residuals 24 6.144 0.256   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2560164   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.42308 1.686366 6 53.1 57.18861  
## BLK 56.84719 1.429322 6 54.8 58.51502  
## BRN 56.54201 1.297471 6 54.7 57.87495  
## WHT 56.82286 1.196538 6 55.3 58.05660  
## WT/BLK 55.84311 1.448774 6 54.2 57.23565  
## WT/BR 56.78563 1.240665 6 55.2 58.16158  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9032398   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.84719 a  
## WHT 56.82286 a  
## WT/BR 56.78563 a  
## BRN 56.54201 ab  
## WT/BLK 55.84311 bc  
## BL/BR 55.42308 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2560164   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.57130 0.5104071 18 56.45813 58.51502  
## AftLow 55.18333 0.8846734 18 53.10000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3480975   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.57130 a  
## AftLow 55.18333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2560164 24 56.37732 0.8974897 1.489599  
##   
## $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 56.87949 0.3779489 3 56.45813 57.18861 56.72493 56.99172  
## BL/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## BLK:AftHigh 57.99439 0.4992369 3 57.51973 58.51502 57.73407 57.94842  
## BLK:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## BRN:AftHigh 57.65070 0.3282133 3 57.27398 57.87495 57.53857 57.80315  
## BRN:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## WHT:AftHigh 57.87906 0.2434478 3 57.60154 58.05660 57.79029 57.97905  
## WHT:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## WT/BLK:AftHigh 57.15289 0.1321908 3 57.00044 57.23565 57.11151 57.22258  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 57.87127 0.3198673 3 57.52836 58.16158 57.72612 57.92387  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.09017  
## BL/BR:AftLow 54.40000  
## BLK:AftHigh 58.23172  
## BLK:AftLow 56.15000  
## BRN:AftHigh 57.83905  
## BRN:AftLow 55.80000  
## WHT:AftHigh 58.01782  
## WHT:AftLow 56.00000  
## WT/BLK:AftHigh 57.22912  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.04272  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.99439 a  
## WHT:AftHigh 57.87906 a  
## WT/BR:AftHigh 57.87127 a  
## BRN:AftHigh 57.65070 a  
## WT/BLK:AftHigh 57.15289 ab  
## BL/BR:AftHigh 56.87949 abc  
## WHT:AftLow 55.76667 bcd  
## BLK:AftLow 55.70000 bcd  
## WT/BR:AftLow 55.70000 bcd  
## BRN:AftLow 55.43333 cde  
## WT/BLK:AftLow 54.53333 de  
## BL/BR:AftLow 53.96667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT22 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 20.068 4.014 7.2231 0.0002986 \*\*\*  
## THIregime 1 60.926 60.926 109.6473 1.985e-10 \*\*\*  
## Colour:THIregime 5 1.211 0.242 0.4359 0.8190102   
## Residuals 24 13.336 0.556   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5556515   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.27904 1.658162 6 53.7 56.87629  
## BLK 57.53245 1.134932 6 56.1 58.86100  
## BRN 56.10020 1.429912 6 54.6 57.46081  
## WHT 55.47037 1.943879 6 52.7 57.82804  
## WT/BLK 56.60900 1.559057 6 54.3 58.33332  
## WT/BR 56.08111 1.674197 6 53.6 58.01223  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.33067   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.53245 a  
## WT/BLK 56.60900 ab  
## BRN 56.10020 b  
## WT/BR 56.08111 b  
## WHT 55.47037 b  
## BL/BR 55.27904 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5556515   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.47961 0.7228721 18 56.17795 58.861  
## AftLow 54.87778 1.2302824 18 52.70000 57.400  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.512824   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.47961 a  
## AftLow 54.87778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5556515 24 56.17869 1.326874 2.194506  
##   
## $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 56.79140 0.09297438 3 56.69204 56.87629 56.74896 56.80587  
## BL/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## BLK:AftHigh 58.46490 0.34898990 3 58.20264 58.86100 58.26685 58.33105  
## BLK:AftLow 56.60000 0.70000000 3 56.10000 57.40000 56.20000 56.30000  
## BRN:AftHigh 57.40039 0.10045199 3 57.28444 57.46081 57.37018 57.45593  
## BRN:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## WHT:AftHigh 56.90740 0.84149591 3 56.17795 57.82804 56.44708 56.71622  
## WHT:AftLow 54.03333 1.59478316 3 52.70000 55.80000 53.15000 53.60000  
## WT/BLK:AftHigh 57.88467 0.57561312 3 57.23565 58.33332 57.66034 58.08504  
## WT/BLK:AftLow 55.33333 0.92915732 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 57.42888 0.58694996 3 56.83840 58.01223 57.13721 57.43602  
## WT/BR:AftLow 54.73333 1.10151411 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 56.84108  
## BL/BR:AftLow 53.80000  
## BLK:AftHigh 58.59602  
## BLK:AftLow 56.85000  
## BRN:AftHigh 57.45837  
## BRN:AftLow 54.90000  
## WHT:AftHigh 57.27213  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 58.20918  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 57.72413  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.46490 a  
## WT/BLK:AftHigh 57.88467 a  
## WT/BR:AftHigh 57.42888 ab  
## BRN:AftHigh 57.40039 ab  
## WHT:AftHigh 56.90740 abc  
## BL/BR:AftHigh 56.79140 abc  
## BLK:AftLow 56.60000 abc  
## WT/BLK:AftLow 55.33333 bcd  
## BRN:AftLow 54.80000 cd  
## WT/BR:AftLow 54.73333 cd  
## WHT:AftLow 54.03333 d  
## BL/BR:AftLow 53.76667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT23 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 35.371 7.074 5.2794 0.002073 \*\*   
## THIregime 1 42.762 42.762 31.9130 8.122e-06 \*\*\*  
## Colour:THIregime 5 1.121 0.224 0.1673 0.972188   
## Residuals 24 32.159 1.340   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.339955   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.42893 1.166228 6 53.7 56.64500  
## BLK 56.52263 1.215143 6 54.9 57.80824  
## BRN 57.13086 1.785221 6 53.9 58.86299  
## WHT 55.59271 1.597303 6 53.2 57.25598  
## WT/BLK 54.24593 1.634543 6 51.6 55.96375  
## WT/BR 54.68486 1.990376 6 51.6 57.13111  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.066399   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.13086 a  
## BLK 56.52263 ab  
## WHT 55.59271 abc  
## BL/BR 55.42893 abc  
## WT/BR 54.68486 bc  
## WT/BLK 54.24593 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.339955   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.69087 1.133776 18 54.63522 58.86299  
## AftLow 54.51111 1.659160 18 51.60000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.796365   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.69087 a  
## AftLow 54.51111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.339955 24 55.60099 2.081913 3.40785  
##   
## $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 56.39120 0.4231049 3 55.90277 56.64500 56.26430 56.62583  
## BL/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## BLK:AftHigh 57.57860 0.2879336 3 57.25556 57.80824 57.46378 57.67199  
## BLK:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## BRN:AftHigh 57.92840 1.2231223 3 56.54408 58.86299 57.46110 58.37812  
## BRN:AftLow 56.33333 2.1361960 3 53.90000 57.90000 55.55000 57.20000  
## WHT:AftHigh 56.91875 0.4898538 3 56.35686 57.25598 56.75013 57.14341  
## WHT:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## WT/BLK:AftHigh 55.49186 0.7431559 3 54.63522 55.96375 55.25592 55.87663  
## WT/BLK:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 55.83639 1.1969138 3 54.77025 57.13111 55.18903 55.60781  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 56.63542  
## BL/BR:AftLow 54.85000  
## BLK:AftHigh 57.74012  
## BLK:AftLow 55.75000  
## BRN:AftHigh 58.62056  
## BRN:AftLow 57.55000  
## WHT:AftHigh 57.19969  
## WHT:AftLow 54.80000  
## WT/BLK:AftHigh 55.92019  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 56.36946  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.92840 a  
## BLK:AftHigh 57.57860 ab  
## WHT:AftHigh 56.91875 abc  
## BL/BR:AftHigh 56.39120 abcd  
## BRN:AftLow 56.33333 abcd  
## WT/BR:AftHigh 55.83639 abcd  
## WT/BLK:AftHigh 55.49186 abcd  
## BLK:AftLow 55.46667 abcd  
## BL/BR:AftLow 54.46667 bcd  
## WHT:AftLow 54.26667 bcd  
## WT/BR:AftLow 53.53333 cd  
## WT/BLK:AftLow 53.00000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT24 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 15.997 3.199 6.3648 0.000678 \*\*\*  
## THIregime 1 57.155 57.155 113.6999 1.383e-10 \*\*\*  
## Colour:THIregime 5 1.178 0.236 0.4687 0.795712   
## Residuals 24 12.064 0.503   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5026825   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.84764 1.636327 6 53.6 57.81715  
## BLK 57.05485 1.321079 6 54.9 58.56231  
## BRN 55.29648 1.672296 6 53.1 57.20348  
## WHT 54.96052 1.611123 6 53.2 56.50714  
## WT/BLK 55.87209 1.514716 6 53.8 57.65381  
## WT/BR 56.19518 1.403565 6 54.3 57.86289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.265657   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.05485 a  
## WT/BR 56.19518 ab  
## WT/BLK 55.87209 ab  
## BL/BR 55.84764 ab  
## BRN 55.29648 b  
## WHT 54.96052 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5026825   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.13114 0.6499725 18 56.25789 58.56231  
## AftLow 54.61111 1.1390857 18 53.10000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4877687   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.13114 a  
## AftLow 54.61111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5026825 24 55.87113 1.268994 2.087288  
##   
## $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 57.16194 0.6069645 3 56.61886 57.81715 56.83433 57.04980  
## BL/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## BLK:AftHigh 57.97637 0.6100738 3 57.34474 58.56231 57.68341 58.02208  
## BLK:AftLow 56.13333 1.2013881 3 54.90000 57.30000 55.55000 56.20000  
## BRN:AftHigh 56.72629 0.4637055 3 56.27737 57.20348 56.48769 56.69802  
## BRN:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## WHT:AftHigh 56.42103 0.1413539 3 56.25789 56.50714 56.37798 56.49806  
## WHT:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## WT/BLK:AftHigh 57.14418 0.4912059 3 56.67375 57.65381 56.88936 57.10498  
## WT/BLK:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BR:AftHigh 57.35703 0.4711404 3 56.93074 57.86289 57.10410 57.27747  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 57.43348  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 58.29219  
## BLK:AftLow 56.75000  
## BRN:AftHigh 56.95075  
## BRN:AftLow 54.25000  
## WHT:AftHigh 56.50260  
## WHT:AftLow 53.65000  
## WT/BLK:AftHigh 57.37939  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.57018  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.97637 a  
## WT/BR:AftHigh 57.35703 a  
## BL/BR:AftHigh 57.16194 a  
## WT/BLK:AftHigh 57.14418 a  
## BRN:AftHigh 56.72629 ab  
## WHT:AftHigh 56.42103 abc  
## BLK:AftLow 56.13333 abc  
## WT/BR:AftLow 55.03333 bcd  
## WT/BLK:AftLow 54.60000 cd  
## BL/BR:AftLow 54.53333 cd  
## BRN:AftLow 53.86667 d  
## WHT:AftLow 53.50000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT25 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 54.786 10.957 113.1692 7.051e-16 \*\*\*  
## THIregime 1 42.187 42.187 435.7130 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 3.131 0.626 6.4667 0.0006134 \*\*\*  
## Residuals 24 2.324 0.097   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.09682197   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.68011 1.2744283 6 54.2 56.94294  
## BLK 56.76418 1.1803275 6 55.4 57.91516  
## BRN 58.28363 0.7865318 6 57.1 59.23585  
## WHT 55.24600 1.7310313 6 53.6 56.88609  
## WT/BLK 54.36992 1.3208736 6 53.1 55.65448  
## WT/BR 56.25129 1.0728641 6 54.6 57.40988  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.5554643   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 58.28363 a  
## BLK 56.76418 b  
## WT/BR 56.25129 b  
## BL/BR 55.68011 c  
## WHT 55.24600 c  
## WT/BLK 54.36992 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.09682197   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.18171 1.063171 18 55.52816 59.23585  
## AftLow 55.01667 1.553459 18 53.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2140691   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.18171 a  
## AftLow 55.01667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.09682197 24 56.09919 0.5546645 0.9160568  
##   
## $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 56.82688 0.17838397 3 56.62148 56.94294 56.76885 56.91622  
## BL/BR:AftLow 54.53333 0.28867513 3 54.20000 54.70000 54.45000 54.70000  
## BLK:AftHigh 57.82835 0.12456599 3 57.68563 57.91516 57.78495 57.88427  
## BLK:AftLow 55.70000 0.26457513 3 55.40000 55.90000 55.60000 55.80000  
## BRN:AftHigh 58.90059 0.37593649 3 58.49415 59.23585 58.73296 58.97176  
## BRN:AftLow 57.66667 0.51316014 3 57.10000 58.10000 57.45000 57.80000  
## WHT:AftHigh 56.82533 0.07065602 3 56.74780 56.88609 56.79494 56.84209  
## WHT:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WT/BLK:AftHigh 55.57317 0.07055016 3 55.52816 55.65448 55.53252 55.53688  
## WT/BLK:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BR:AftHigh 57.13592 0.29421357 3 56.82496 57.40988 56.99894 57.17293  
## WT/BR:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 56.92958  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 57.89972  
## BLK:AftLow 55.85000  
## BRN:AftHigh 59.10380  
## BRN:AftLow 57.95000  
## WHT:AftHigh 56.86409  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 55.59568  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 57.29140  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.90059 a  
## BLK:AftHigh 57.82835 b  
## BRN:AftLow 57.66667 bc  
## WT/BR:AftHigh 57.13592 bc  
## BL/BR:AftHigh 56.82688 c  
## WHT:AftHigh 56.82533 c  
## BLK:AftLow 55.70000 d  
## WT/BLK:AftHigh 55.57317 d  
## WT/BR:AftLow 55.36667 de  
## BL/BR:AftLow 54.53333 ef  
## WHT:AftLow 53.66667 fg  
## WT/BLK:AftLow 53.16667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT26 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 45.165 9.033 2.4809 0.0601814 .   
## THIregime 1 56.374 56.374 15.4830 0.0006211 \*\*\*  
## Colour:THIregime 5 3.614 0.723 0.1985 0.9599688   
## Residuals 24 87.385 3.641   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.641024   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.78541 1.722950 6 54.3 58.64694  
## BLK 57.46597 1.406655 6 55.7 59.15471  
## BRN 56.83537 1.683120 6 54.8 58.85602  
## WHT 55.53408 1.865889 6 53.7 57.32712  
## WT/BLK 56.30718 1.422171 6 54.6 58.01970  
## WT/BR 59.14692 4.023707 6 54.8 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.406285   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 59.14692 a  
## BLK 57.46597 ab  
## BRN 56.83537 ab  
## BL/BR 56.78541 ab  
## WT/BLK 56.30718 ab  
## WHT 55.53408 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.641024   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.26387 1.414640 18 57.10788 63.41222  
## AftLow 55.76111 2.451204 18 53.70000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.31274   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.26387 a  
## AftLow 55.76111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.641024 24 57.01249 3.346893 5.617554  
##   
## $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 58.23749 0.4821418 3 57.70608 58.64694 58.03277 58.35946  
## BL/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## BLK:AftHigh 58.59861 0.4845167 3 58.26741 59.15471 58.32056 58.37371  
## BLK:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## BRN:AftHigh 58.20408 0.5646414 3 57.87093 58.85602 57.87811 57.88529  
## BRN:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## WHT:AftHigh 57.23482 0.1136542 3 57.10788 57.32712 57.18868 57.26947  
## WHT:AftLow 53.83333 0.1154701 3 53.70000 53.90000 53.80000 53.90000  
## WT/BLK:AftHigh 57.48103 0.4683348 3 57.17031 58.01970 57.21169 57.25307  
## WT/BLK:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WT/BR:AftHigh 59.82716 3.1054788 3 57.96743 63.41222 58.03463 58.10184  
## WT/BR:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## Q75  
## BL/BR:AftHigh 58.50320  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 58.76421  
## BLK:AftLow 56.65000  
## BRN:AftHigh 58.37066  
## BRN:AftLow 55.80000  
## WHT:AftHigh 57.29830  
## WHT:AftLow 53.90000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 60.75703  
## WT/BR:AftLow 60.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 59.82716 a  
## BLK:AftHigh 58.59861 ab  
## WT/BR:AftLow 58.46667 ab  
## BL/BR:AftHigh 58.23749 ab  
## BRN:AftHigh 58.20408 ab  
## WT/BLK:AftHigh 57.48103 ab  
## WHT:AftHigh 57.23482 ab  
## BLK:AftLow 56.33333 ab  
## BRN:AftLow 55.46667 ab  
## BL/BR:AftLow 55.33333 ab  
## WT/BLK:AftLow 55.13333 ab  
## WHT:AftLow 53.83333 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT27 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 71.662 14.332 19.387 9.992e-08 \*\*\*  
## THIregime 1 51.481 51.481 69.636 1.483e-08 \*\*\*  
## Colour:THIregime 5 5.789 1.158 1.566 0.2076   
## Residuals 24 17.743 0.739   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7392879   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.52587 1.8955795 6 51.6 56.49080  
## BLK 58.11374 0.6295771 6 57.4 58.76890  
## BRN 56.54164 1.0323735 6 55.2 57.63987  
## WHT 54.19514 2.2698902 6 51.4 57.07884  
## WT/BLK 54.45656 1.7706188 6 52.5 56.26866  
## WT/BR 56.17544 1.2882946 6 54.2 57.69115  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.534885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.11374 a  
## BRN 56.54164 b  
## WT/BR 56.17544 b  
## BL/BR 54.52587 c  
## WT/BLK 54.45656 c  
## WHT 54.19514 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7392879   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.86390 1.158038 18 55.1826 58.7689  
## AftLow 54.47222 2.063636 18 51.4000 57.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.591526   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.86390 a  
## AftLow 54.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7392879 24 55.66806 1.544545 2.531292  
##   
## $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 56.05173 0.72680209 3 55.21280 56.49080 55.83220 56.45160  
## BL/BR:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## BLK:AftHigh 58.66081 0.09864433 3 58.57566 58.76890 58.60676 58.63785  
## BLK:AftLow 57.56667 0.28867513 3 57.40000 57.90000 57.40000 57.40000  
## BRN:AftHigh 57.44994 0.21470404 3 57.21698 57.63987 57.35498 57.49298  
## BRN:AftLow 55.63333 0.37859389 3 55.20000 55.90000 55.50000 55.80000  
## WHT:AftHigh 55.82362 1.08713529 3 55.18260 57.07884 55.19601 55.20942  
## WHT:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## WT/BLK:AftHigh 56.01311 0.29853616 3 55.68497 56.26866 55.88534 56.08571  
## WT/BLK:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WT/BR:AftHigh 57.18421 0.57711742 3 56.55614 57.69115 56.93074 57.30534  
## WT/BR:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## Q75  
## BL/BR:AftHigh 56.47120  
## BL/BR:AftLow 53.70000  
## BLK:AftHigh 58.70338  
## BLK:AftLow 57.65000  
## BRN:AftHigh 57.56643  
## BRN:AftLow 55.85000  
## WHT:AftHigh 56.14413  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 56.17718  
## WT/BLK:AftLow 53.10000  
## WT/BR:AftHigh 57.49824  
## WT/BR:AftLow 55.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.66081 a  
## BLK:AftLow 57.56667 ab  
## BRN:AftHigh 57.44994 ab  
## WT/BR:AftHigh 57.18421 ab  
## BL/BR:AftHigh 56.05173 b  
## WT/BLK:AftHigh 56.01311 b  
## WHT:AftHigh 55.82362 b  
## BRN:AftLow 55.63333 b  
## WT/BR:AftLow 55.16667 bc  
## BL/BR:AftLow 53.00000 cd  
## WT/BLK:AftLow 52.90000 cd  
## WHT:AftLow 52.56667 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 23.3326 4.6665 9.6444 3.798e-05 \*\*\*  
## THIregime 1 31.5216 31.5216 65.1466 2.696e-08 \*\*\*  
## Colour:THIregime 5 0.6467 0.1293 0.2673 0.9265   
## Residuals 24 11.6126 0.4839   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4838569   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.60120 1.236940 6 53.8 57.05561  
## BLK 56.56005 1.219558 6 54.9 57.79471  
## BRN 55.70729 1.472345 6 53.7 57.53882  
## WHT 56.61473 1.053603 6 55.2 57.70608  
## WT/BLK 54.18746 1.062228 6 52.6 55.53688  
## WT/BR 55.57701 1.154401 6 53.8 57.07884  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.241731   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WHT 56.61473 a  
## BLK 56.56005 a  
## BRN 55.70729 a  
## BL/BR 55.60120 a  
## WT/BR 55.57701 a  
## WT/BLK 54.18746 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4838569   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.64369 1.026582 18 54.07332 57.79471  
## AftLow 54.77222 1.019692 18 52.60000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.478548   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.64369 a  
## AftLow 54.77222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4838569 24 55.70796 1.248652 2.04783  
##   
## $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 56.60241 0.4216864 3 56.22161 57.05561 56.37581 56.53001  
## BL/BR:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## BLK:AftHigh 57.62011 0.2777725 3 57.29980 57.79471 57.53281 57.76582  
## BLK:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BRN:AftHigh 56.81458 0.6412670 3 56.31891 57.53882 56.45246 56.58601  
## BRN:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## WHT:AftHigh 57.52946 0.2345578 3 57.26332 57.70608 57.44114 57.61896  
## WHT:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BLK:AftHigh 54.94158 0.7690154 3 54.07332 55.53688 54.64393 55.21454  
## WT/BLK:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WT/BR:AftHigh 56.35403 0.7213513 3 55.63619 57.07884 55.99162 56.34706  
## WT/BR:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## Q75  
## BL/BR:AftHigh 56.79281  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 57.78026  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.06241  
## BRN:AftLow 55.05000  
## WHT:AftHigh 57.66252  
## WHT:AftLow 55.95000  
## WT/BLK:AftHigh 55.37571  
## WT/BLK:AftLow 53.85000  
## WT/BR:AftHigh 56.71295  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.62011 a  
## WHT:AftHigh 57.52946 ab  
## BRN:AftHigh 56.81458 abc  
## BL/BR:AftHigh 56.60241 abcd  
## WT/BR:AftHigh 56.35403 abcd  
## WHT:AftLow 55.70000 abcd  
## BLK:AftLow 55.50000 bcd  
## WT/BLK:AftHigh 54.94158 cde  
## WT/BR:AftLow 54.80000 cde  
## BL/BR:AftLow 54.60000 de  
## BRN:AftLow 54.60000 de  
## WT/BLK:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT29 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 70.506 14.1012 19.1054 1.145e-07 \*\*\*  
## THIregime 1 30.861 30.8614 41.8135 1.095e-06 \*\*\*  
## Colour:THIregime 5 1.368 0.2736 0.3707 0.8637   
## Residuals 24 17.714 0.7381   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7380723   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.34616 1.2948556 6 53.1 55.60483  
## BLK 57.50709 1.1443638 6 55.9 58.96283  
## BRN 56.51777 1.1172874 6 54.8 57.80660  
## WHT 55.41398 1.7753721 6 52.8 57.59864  
## WT/BLK 53.17510 1.3974037 6 51.3 55.09258  
## WT/BR 55.42853 0.8058293 6 54.6 56.31719  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.533623   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.50709 a  
## BRN 56.51777 ab  
## WT/BR 55.42853 bc  
## WHT 55.41398 bc  
## BL/BR 54.34616 cd  
## WT/BLK 53.17510 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7380723   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.32399 1.437960 18 53.41994 58.96283  
## AftLow 54.47222 1.789448 18 51.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5910395   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.32399 a  
## AftLow 54.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7380723 24 55.39811 1.550796 2.52921  
##   
## $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 55.52565 0.06858672 3 55.48461 55.60483 55.48606 55.48751  
## BL/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## BLK:AftHigh 58.21419 0.66631403 3 57.68617 58.96283 57.83987 57.99356  
## BLK:AftLow 56.80000 1.15325626 3 55.90000 58.10000 56.15000 56.40000  
## BRN:AftHigh 57.33553 0.45233427 3 56.90461 57.80660 57.10000 57.29539  
## BRN:AftLow 55.70000 0.95393920 3 54.80000 56.70000 55.20000 55.60000  
## WHT:AftHigh 56.59463 0.91363989 3 55.81206 57.59864 56.09263 56.37320  
## WHT:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## WT/BLK:AftHigh 54.11687 0.87046945 3 53.41994 55.09258 53.62902 53.83810  
## WT/BLK:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## WT/BR:AftHigh 56.15706 0.14535555 3 56.03344 56.31719 56.07700 56.12056  
## WT/BR:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 55.54617  
## BL/BR:AftLow 53.20000  
## BLK:AftHigh 58.47820  
## BLK:AftLow 57.25000  
## BRN:AftHigh 57.55099  
## BRN:AftLow 56.15000  
## WHT:AftHigh 56.98592  
## WHT:AftLow 54.95000  
## WT/BLK:AftHigh 54.46534  
## WT/BLK:AftLow 52.70000  
## WT/BR:AftHigh 56.21887  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.21419 a  
## BRN:AftHigh 57.33553 ab  
## BLK:AftLow 56.80000 abc  
## WHT:AftHigh 56.59463 abcd  
## WT/BR:AftHigh 56.15706 abcd  
## BRN:AftLow 55.70000 abcd  
## BL/BR:AftHigh 55.52565 bcde  
## WT/BR:AftLow 54.70000 cdef  
## WHT:AftLow 54.23333 def  
## WT/BLK:AftHigh 54.11687 def  
## BL/BR:AftLow 53.16667 ef  
## WT/BLK:AftLow 52.23333 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 27.778 5.556 3.3909 0.01856 \*   
## THIregime 1 61.544 61.544 37.5638 2.484e-06 \*\*\*  
## Colour:THIregime 5 3.160 0.632 0.3858 0.85359   
## Residuals 24 39.321 1.638   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.638383   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.27074 1.382465 6 54.6 57.91516  
## BLK 56.52856 1.532835 6 54.2 58.08106  
## BRN 57.56799 1.169410 6 56.1 58.92437  
## WHT 55.33309 2.322933 6 51.6 58.10464  
## WT/BLK 54.80780 2.885234 6 51.2 58.90829  
## WT/BR 56.17015 1.206705 6 54.7 57.47958  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.284951   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.56799 a  
## BLK 56.52856 ab  
## BL/BR 56.27074 ab  
## WT/BR 56.17015 ab  
## WHT 55.33309 ab  
## WT/BLK 54.80780 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.638383   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.42055 1.061898 18 55.01418 58.92437  
## AftLow 54.80556 1.733569 18 51.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.880592   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.42055 a  
## AftLow 54.80556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.638383 24 56.11305 2.281097 3.76828  
##   
## $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 57.40814 0.4400314 3 57.12588 57.91516 57.15463 57.18338  
## BL/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## BLK:AftHigh 57.79046 0.4934435 3 57.22072 58.08106 57.64515 58.06959  
## BLK:AftLow 55.26667 0.9237604 3 54.20000 55.80000 55.00000 55.80000  
## BRN:AftHigh 58.53598 0.3432031 3 58.27358 58.92437 58.34178 58.40998  
## BRN:AftLow 56.60000 0.7000000 3 56.10000 57.40000 56.20000 56.30000  
## WHT:AftHigh 56.96617 1.1309909 3 55.84281 58.10464 56.39694 56.95107  
## WHT:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## WT/BLK:AftHigh 56.58228 2.0547163 3 55.01418 58.90829 55.41927 55.82436  
## WT/BLK:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## WT/BR:AftHigh 57.24030 0.2113999 3 57.07884 57.47958 57.12066 57.16247  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 57.54927  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 58.07533  
## BLK:AftLow 55.80000  
## BRN:AftHigh 58.66718  
## BRN:AftLow 56.85000  
## WHT:AftHigh 57.52785  
## WHT:AftLow 54.75000  
## WT/BLK:AftHigh 57.36633  
## WT/BLK:AftLow 53.95000  
## WT/BR:AftHigh 57.32102  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.53598 a  
## BLK:AftHigh 57.79046 a  
## BL/BR:AftHigh 57.40814 ab  
## WT/BR:AftHigh 57.24030 ab  
## WHT:AftHigh 56.96617 ab  
## BRN:AftLow 56.60000 abc  
## WT/BLK:AftHigh 56.58228 abc  
## BLK:AftLow 55.26667 abc  
## BL/BR:AftLow 55.13333 abc  
## WT/BR:AftLow 55.10000 abc  
## WHT:AftLow 53.70000 bc  
## WT/BLK:AftLow 53.03333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT31 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 44.851 8.970 16.9781 3.389e-07 \*\*\*  
## THIregime 1 45.047 45.047 85.2621 2.278e-09 \*\*\*  
## Colour:THIregime 5 2.392 0.478 0.9053 0.4939   
## Residuals 24 12.680 0.528   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5283331   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.34347 1.654724 6 52.5 56.17457  
## BLK 57.37751 1.479473 6 54.7 58.84855  
## BRN 56.36710 1.057640 6 54.9 57.50073  
## WHT 56.61445 1.058548 6 55.2 57.78739  
## WT/BLK 54.44343 1.817716 6 51.6 56.29479  
## WT/BR 55.59906 1.246395 6 54.3 56.80878  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.297547   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.37751 a  
## WHT 56.61445 ab  
## BRN 56.36710 ab  
## WT/BR 55.59906 bc  
## WT/BLK 54.44343 c  
## BL/BR 54.34347 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5283331   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.90945 0.9745591 18 55.27553 58.84855  
## AftLow 54.67222 1.6047010 18 51.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5000587   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.90945 a  
## AftLow 54.67222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5283331 24 55.79084 1.30284 2.13988  
##   
## $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 55.78695 0.3382749 3 55.55139 56.17457 55.59314 55.63488  
## BL/BR:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## BLK:AftHigh 58.22168 0.8311956 3 57.27883 58.84855 57.90824 58.53765  
## BLK:AftLow 56.53333 1.6258331 3 54.70000 57.80000 55.90000 57.10000  
## BRN:AftHigh 57.26754 0.3175032 3 56.90595 57.50073 57.15095 57.39594  
## BRN:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## WHT:AftHigh 57.52891 0.2874647 3 57.21932 57.78739 57.39967 57.58002  
## WHT:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BLK:AftHigh 55.92019 0.5607364 3 55.27553 56.29479 55.73289 56.19025  
## WT/BLK:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## WT/BR:AftHigh 56.73145 0.1160938 3 56.59796 56.80878 56.69279 56.78762  
## WT/BR:AftLow 54.46667 0.1527525 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 55.90473  
## BL/BR:AftLow 53.10000  
## BLK:AftHigh 58.69310  
## BLK:AftLow 57.45000  
## BRN:AftHigh 57.44834  
## BRN:AftLow 55.75000  
## WHT:AftHigh 57.68370  
## WHT:AftLow 55.95000  
## WT/BLK:AftHigh 56.24252  
## WT/BLK:AftLow 53.65000  
## WT/BR:AftHigh 56.79820  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.22168 a  
## WHT:AftHigh 57.52891 ab  
## BRN:AftHigh 57.26754 ab  
## WT/BR:AftHigh 56.73145 ab  
## BLK:AftLow 56.53333 abc  
## WT/BLK:AftHigh 55.92019 bc  
## BL/BR:AftHigh 55.78695 bc  
## WHT:AftLow 55.70000 bc  
## BRN:AftLow 55.46667 bc  
## WT/BR:AftLow 54.46667 cd  
## WT/BLK:AftLow 52.96667 d  
## BL/BR:AftLow 52.90000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT32 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 19.352 3.870 8.6925 8.207e-05 \*\*\*  
## THIregime 1 54.739 54.739 122.9392 6.305e-11 \*\*\*  
## Colour:THIregime 5 1.235 0.247 0.5549 0.7332   
## Residuals 24 10.686 0.445   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4452488   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.86009 1.643991 6 52.6 56.50910  
## BLK 55.75816 1.499768 6 54.2 57.27604  
## BRN 57.08026 1.341250 6 54.9 58.60271  
## WHT 56.00575 1.602167 6 53.6 57.85418  
## WT/BLK 56.54784 1.194885 6 55.1 58.05890  
## WT/BR 55.34645 1.608199 6 53.1 57.04897  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.191161   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.08026 a  
## WT/BLK 56.54784 ab  
## WHT 56.00575 abc  
## BLK 55.75816 bc  
## WT/BR 55.34645 c  
## BL/BR 54.86009 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4452488   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.16618 0.6899657 18 55.87663 58.60271  
## AftLow 54.70000 1.1677026 18 52.60000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4590589   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.16618 a  
## AftLow 54.70000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4452488 24 55.93309 1.192978 1.964431  
##   
## $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 56.28685 0.3556762 3 55.87663 56.50910 56.17573 56.47483  
## BL/BR:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## BLK:AftHigh 57.11633 0.1394012 3 57.01910 57.27604 57.03647 57.05384  
## BLK:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BRN:AftHigh 58.02719 0.6033400 3 57.39943 58.60271 57.73943 58.07944  
## BRN:AftLow 56.13333 1.2013881 3 54.90000 57.30000 55.55000 56.20000  
## WHT:AftHigh 57.27816 0.5889842 3 56.67701 57.85418 56.99015 57.30329  
## WHT:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## WT/BLK:AftHigh 57.56234 0.4673344 3 57.13111 58.05890 57.31406 57.49700  
## WT/BLK:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## WT/BR:AftHigh 56.72622 0.3886609 3 56.29479 57.04897 56.56485 56.83491  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 56.49196  
## BL/BR:AftLow 53.85000  
## BLK:AftHigh 57.16494  
## BLK:AftLow 54.50000  
## BRN:AftHigh 58.34107  
## BRN:AftLow 56.75000  
## WHT:AftHigh 57.57874  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 57.77795  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 56.94194  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.02719 a  
## WT/BLK:AftHigh 57.56234 a  
## WHT:AftHigh 57.27816 ab  
## BLK:AftHigh 57.11633 ab  
## WT/BR:AftHigh 56.72622 ab  
## BL/BR:AftHigh 56.28685 abc  
## BRN:AftLow 56.13333 abc  
## WT/BLK:AftLow 55.53333 bcd  
## WHT:AftLow 54.73333 cde  
## BLK:AftLow 54.40000 cde  
## WT/BR:AftLow 53.96667 de  
## BL/BR:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT33 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 41.082 8.216 11.4370 1.002e-05 \*\*\*  
## THIregime 1 50.570 50.570 70.3915 1.345e-08 \*\*\*  
## Colour:THIregime 5 2.943 0.589 0.8194 0.5479   
## Residuals 24 17.242 0.718   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7184071   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 53.79581 1.9114779 6 51.3 56.03344  
## BLK 57.03813 1.0610080 6 55.7 58.31590  
## BRN 56.50305 0.8971173 6 55.4 57.36633  
## WHT 54.88124 2.1233549 6 51.6 57.47413  
## WT/BLK 55.70742 1.3639044 6 54.3 57.02657  
## WT/BR 55.11892 1.4824902 6 53.7 56.53523  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.513054   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.03813 a  
## BRN 56.50305 ab  
## WT/BLK 55.70742 abc  
## WT/BR 55.11892 bcd  
## WHT 54.88124 cd  
## BL/BR 53.79581 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7184071   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.69264 0.9442065 18 54.94884 58.3159  
## AftLow 54.32222 1.6469421 18 51.30000 57.2000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5831125   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.69264 a  
## AftLow 54.32222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7184071 24 55.50743 1.526983 2.495288  
##   
## $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 55.35829 0.58910130 3 54.94884 56.03344 55.02071 55.09258  
## BL/BR:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## BLK:AftHigh 57.84293 0.40976886 3 57.59472 58.31590 57.60645 57.61817  
## BLK:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## BRN:AftHigh 57.30610 0.08587126 3 57.20777 57.36633 57.27599 57.34421  
## BRN:AftLow 55.70000 0.26457513 3 55.40000 55.90000 55.60000 55.80000  
## WHT:AftHigh 56.22915 1.15225886 3 55.20019 57.47413 55.60665 56.01311  
## WHT:AftLow 53.53333 2.11974841 3 51.60000 55.80000 52.40000 53.20000  
## WT/BLK:AftHigh 56.94817 0.09423108 3 56.84363 57.02657 56.90896 56.97430  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 56.47118 0.07289355 3 56.39186 56.53523 56.43915 56.48645  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 55.56301  
## BL/BR:AftLow 52.70000  
## BLK:AftHigh 57.96703  
## BLK:AftLow 56.50000  
## BRN:AftHigh 57.35527  
## BRN:AftLow 55.85000  
## WHT:AftHigh 56.74362  
## WHT:AftLow 54.50000  
## WT/BLK:AftHigh 57.00044  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 56.51084  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.84293 a  
## BRN:AftHigh 57.30610 a  
## WT/BLK:AftHigh 56.94817 ab  
## WT/BR:AftHigh 56.47118 ab  
## BLK:AftLow 56.23333 abc  
## WHT:AftHigh 56.22915 abc  
## BRN:AftLow 55.70000 abcd  
## BL/BR:AftHigh 55.35829 abcd  
## WT/BLK:AftLow 54.46667 bcde  
## WT/BR:AftLow 53.76667 cde  
## WHT:AftLow 53.53333 de  
## BL/BR:AftLow 52.23333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT34 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 44.606 8.921 26.3518 5.160e-09 \*\*\*  
## THIregime 1 39.574 39.574 116.8963 1.048e-10 \*\*\*  
## Colour:THIregime 5 1.373 0.275 0.8112 0.5533   
## Residuals 24 8.125 0.339   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3385431   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.53984 1.4002264 6 53.6 56.98737  
## BLK 58.31155 0.7719328 6 57.3 59.13328  
## BRN 57.24481 1.1936870 6 55.7 58.67911  
## WHT 56.26664 1.4705519 6 54.3 57.96453  
## WT/BLK 55.11040 1.3875414 6 53.1 56.71295  
## WT/BR 55.58425 1.3211014 6 53.7 56.94443  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.038667   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.31155 a  
## BRN 57.24481 b  
## WHT 56.26664 bc  
## WT/BR 55.58425 cd  
## BL/BR 55.53984 cd  
## WT/BLK 55.11040 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3385431   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.39138 1.029415 18 55.66755 59.13328  
## AftLow 55.29444 1.457020 18 53.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4002894   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.39138 a  
## AftLow 55.29444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3385431 24 56.34291 1.032685 1.712941  
##   
## $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 56.74634 0.3482579 3 56.34706 56.98737 56.62583 56.90461  
## BL/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## BLK:AftHigh 58.98977 0.1625465 3 58.81325 59.13328 58.91802 59.02279  
## BLK:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BRN:AftHigh 58.15628 0.4544490 3 57.85592 58.67911 57.89487 57.93383  
## BRN:AftLow 56.33333 0.9291573 3 55.70000 57.40000 55.80000 55.90000  
## WHT:AftHigh 57.49994 0.4357341 3 57.10036 57.96453 57.26765 57.43493  
## WHT:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## WT/BLK:AftHigh 56.25414 0.5342840 3 55.66755 56.71295 56.02473 56.38191  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 56.70183 0.4158904 3 56.22161 56.94443 56.58053 56.93945  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 56.94599  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 59.07803  
## BLK:AftLow 57.80000  
## BRN:AftHigh 58.30647  
## BRN:AftLow 56.65000  
## WHT:AftHigh 57.69973  
## WHT:AftLow 55.40000  
## WT/BLK:AftHigh 56.54743  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 56.94194  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.98977 a  
## BRN:AftHigh 58.15628 ab  
## BLK:AftLow 57.63333 abc  
## WHT:AftHigh 57.49994 abc  
## BL/BR:AftHigh 56.74634 bc  
## WT/BR:AftHigh 56.70183 bcd  
## BRN:AftLow 56.33333 cd  
## WT/BLK:AftHigh 56.25414 cd  
## WHT:AftLow 55.03333 de  
## WT/BR:AftLow 54.46667 e  
## BL/BR:AftLow 54.33333 e  
## WT/BLK:AftLow 53.96667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT35 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 38.446 7.689 31.2356 9.293e-10 \*\*\*  
## THIregime 1 45.761 45.761 185.8959 8.512e-13 \*\*\*  
## Colour:THIregime 5 1.716 0.343 1.3944 0.2617   
## Residuals 24 5.908 0.246   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2461669   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.53954 1.3539599 6 53.7 56.94526  
## BLK 56.32420 1.4994916 6 54.6 57.96981  
## BRN 58.22297 0.7436671 6 57.4 58.96458  
## WHT 56.59996 1.4328832 6 54.6 58.07197  
## WT/BLK 55.00314 1.3552549 6 53.7 56.26866  
## WT/BR 55.67491 1.4671550 6 53.6 57.43428  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8856946   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 58.22297 a  
## WHT 56.59996 b  
## BLK 56.32420 bc  
## WT/BR 55.67491 cd  
## BL/BR 55.53954 cd  
## WT/BLK 55.00314 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2461669   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.35491 0.9415307 18 56.19025 58.96458  
## AftLow 55.10000 1.3503812 18 53.60000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3413358   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.35491 a  
## AftLow 55.10000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2461669 24 56.22745 0.8824019 1.460664  
##   
## $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 56.71242 0.33581878 3 56.32746 56.94526 56.59600 56.86453  
## BL/BR:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## BLK:AftHigh 57.64840 0.28404401 3 57.43109 57.96981 57.48769 57.54429  
## BLK:AftLow 55.00000 0.52915026 3 54.60000 55.60000 54.70000 54.80000  
## BRN:AftHigh 58.87926 0.08417327 3 58.79628 58.96458 58.83661 58.87693  
## BRN:AftLow 57.56667 0.28867513 3 57.40000 57.90000 57.40000 57.40000  
## WHT:AftHigh 57.83325 0.35572645 3 57.42440 58.07197 57.71388 58.00337  
## WHT:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## WT/BLK:AftHigh 56.23962 0.04297363 3 56.19025 56.26866 56.22510 56.25994  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 56.81649 0.57306872 3 56.30226 57.43428 56.50760 56.71295  
## WT/BR:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 56.90490  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 57.75705  
## BLK:AftLow 55.20000  
## BRN:AftHigh 58.92075  
## BRN:AftLow 57.65000  
## WHT:AftHigh 58.03767  
## WHT:AftLow 55.75000  
## WT/BLK:AftHigh 56.26430  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 57.07361  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.87926 a  
## WHT:AftHigh 57.83325 ab  
## BLK:AftHigh 57.64840 abc  
## BRN:AftLow 57.56667 abc  
## WT/BR:AftHigh 56.81649 bcd  
## BL/BR:AftHigh 56.71242 bcd  
## WT/BLK:AftHigh 56.23962 cde  
## WHT:AftLow 55.36667 def  
## BLK:AftLow 55.00000 efg  
## WT/BR:AftLow 54.53333 fg  
## BL/BR:AftLow 54.36667 fg  
## WT/BLK:AftLow 53.76667 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT36 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 58.627 11.725 3.4653 0.016914 \*   
## THIregime 1 36.119 36.119 10.6745 0.003263 \*\*  
## Colour:THIregime 5 1.720 0.344 0.1017 0.990840   
## Residuals 24 81.209 3.384   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.383692   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.20531 1.244003 6 54.7 57.53765  
## BLK 58.16950 1.250781 6 56.1 59.45713  
## BRN 56.63449 1.297722 6 54.9 57.94304  
## WHT 59.00973 3.941745 6 54.8 64.70000  
## WT/BLK 55.57819 1.326760 6 53.7 57.00043  
## WT/BR 55.71271 1.309890 6 54.2 57.01164  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.283708   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WHT 59.00973 a  
## BLK 58.16950 ab  
## BRN 56.63449 ab  
## BL/BR 56.20531 ab  
## WT/BR 55.71271 b  
## WT/BLK 55.57819 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.383692   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.88664 1.525285 18 56.11185 62.91771  
## AftLow 55.88333 2.449550 18 53.70000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.265501   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.88664 a  
## AftLow 55.88333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.383692 24 56.88499 3.233685 5.415404  
##   
## $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 57.31062 0.2091193 3 57.12588 57.53765 57.19710 57.26832  
## BL/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## BLK:AftHigh 59.10566 0.5555037 3 58.46524 59.45713 58.92993 59.39463  
## BLK:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BRN:AftHigh 57.76898 0.2810643 3 57.44473 57.94304 57.68196 57.91918  
## BRN:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## WHT:AftHigh 59.55279 2.9180981 3 57.71770 62.91771 57.87033 58.02297  
## WHT:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## WT/BLK:AftHigh 56.68972 0.5009271 3 56.11185 57.00043 56.53436 56.95688  
## WT/BLK:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 56.89208 0.1828511 3 56.68159 57.01164 56.83230 56.98301  
## WT/BR:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 57.40299  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 59.42588  
## BLK:AftLow 57.80000  
## BRN:AftHigh 57.93111  
## BRN:AftLow 55.80000  
## WHT:AftHigh 60.47034  
## WHT:AftLow 60.30000  
## WT/BLK:AftHigh 56.97866  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 56.99732  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 59.55279 a  
## BLK:AftHigh 59.10566 a  
## WHT:AftLow 58.46667 a  
## BRN:AftHigh 57.76898 a  
## BL/BR:AftHigh 57.31062 a  
## BLK:AftLow 57.23333 a  
## WT/BR:AftHigh 56.89208 a  
## WT/BLK:AftHigh 56.68972 a  
## BRN:AftLow 55.50000 a  
## BL/BR:AftLow 55.10000 a  
## WT/BR:AftLow 54.53333 a  
## WT/BLK:AftLow 54.46667 a  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT37 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 17.768 3.554 7.0265 0.0003586 \*\*\*  
## THIregime 1 52.222 52.222 103.2552 3.592e-10 \*\*\*  
## Colour:THIregime 5 1.658 0.332 0.6557 0.6601514   
## Residuals 24 12.138 0.506   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5057568   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.81635 1.191938 6 55.3 58.04874  
## BLK 55.64937 1.768479 6 53.7 57.54927  
## BRN 57.75680 1.345061 6 55.9 59.46584  
## WHT 56.52550 1.613962 6 54.2 58.27234  
## WT/BLK 55.76108 1.559889 6 53.6 57.67995  
## WT/BR 56.38405 1.344665 6 54.3 57.86289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.269521   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.75680 a  
## BL/BR 56.81635 ab  
## WHT 56.52550 ab  
## WT/BR 56.38405 b  
## WT/BLK 55.76108 b  
## BLK 55.64937 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5057568   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.68660 0.7192171 18 56.39933 59.46584  
## AftLow 55.27778 1.1573578 18 53.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.489258   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.68660 a  
## AftLow 55.27778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5057568 24 56.48219 1.259097 2.093661  
##   
## $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 57.86604 0.2700815 3 57.55580 58.04874 57.77468 57.99356  
## BL/BR:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## BLK:AftHigh 57.23207 0.2839570 3 57.00157 57.54927 57.07347 57.14537  
## BLK:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## BRN:AftHigh 58.71360 0.6682573 3 58.18857 59.46584 58.33748 58.48640  
## BRN:AftLow 56.80000 1.1532563 3 55.90000 58.10000 56.15000 56.40000  
## WHT:AftHigh 57.88433 0.4578117 3 57.37939 58.27234 57.69032 58.00125  
## WHT:AftLow 55.16667 0.8736895 3 54.20000 55.90000 54.80000 55.40000  
## WT/BLK:AftHigh 56.98882 0.6463290 3 56.39933 57.67995 56.64326 56.88718  
## WT/BLK:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 57.43477 0.5873150 3 56.76522 57.86289 57.22072 57.67621  
## WT/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 58.02115  
## BL/BR:AftLow 56.00000  
## BLK:AftHigh 57.34732  
## BLK:AftLow 54.25000  
## BRN:AftHigh 58.97612  
## BRN:AftLow 57.25000  
## WHT:AftHigh 58.13680  
## WHT:AftLow 55.65000  
## WT/BLK:AftHigh 57.28356  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.76955  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.71360 a  
## WHT:AftHigh 57.88433 a  
## BL/BR:AftHigh 57.86604 a  
## WT/BR:AftHigh 57.43477 ab  
## BLK:AftHigh 57.23207 abc  
## WT/BLK:AftHigh 56.98882 abc  
## BRN:AftLow 56.80000 abc  
## BL/BR:AftLow 55.76667 bcd  
## WT/BR:AftLow 55.33333 cd  
## WHT:AftLow 55.16667 cd  
## WT/BLK:AftLow 54.53333 d  
## BLK:AftLow 54.06667 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 19.078 3.816 5.6470 0.001404 \*\*   
## THIregime 1 52.069 52.069 77.0607 5.87e-09 \*\*\*  
## Colour:THIregime 5 0.822 0.164 0.2432 0.939143   
## Residuals 24 16.216 0.676   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6756856   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.20781 1.727957 6 52.7 57.35587  
## BLK 56.73528 1.200620 6 55.4 58.01721  
## BRN 56.31969 1.335246 6 54.2 57.69911  
## WHT 55.98408 1.483653 6 53.8 57.71770  
## WT/BLK 55.75817 1.359378 6 54.2 57.10498  
## WT/BR 54.51083 1.887342 6 51.6 56.49342  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.467376   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.73528 a  
## BRN 56.31969 ab  
## WHT 55.98408 ab  
## WT/BLK 55.75817 abc  
## BL/BR 55.20781 bc  
## WT/BR 54.51083 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6756856   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.95529 0.7840757 18 55.13738 58.01721  
## AftLow 54.55000 1.2287009 18 51.60000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5655088   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.95529 a  
## AftLow 54.55000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6756856 24 55.75265 1.474371 2.419958  
##   
## $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 56.38229 0.8848958 3 55.62690 57.35587 55.89551 56.16412  
## BL/BR:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## BLK:AftHigh 57.80390 0.1858883 3 57.67654 58.01721 57.69725 57.71796  
## BLK:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BRN:AftHigh 57.37271 0.5265922 3 56.76522 57.69911 57.20952 57.65381  
## BRN:AftLow 55.26667 0.9237604 3 54.20000 55.80000 55.00000 55.80000  
## WHT:AftHigh 57.16816 0.5449027 3 56.62801 57.71770 56.89340 57.15878  
## WHT:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## WT/BLK:AftHigh 56.98301 0.1890652 3 56.76522 57.10498 56.92203 57.07884  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 56.02166 0.7663778 3 55.13738 56.49342 55.78578 56.43418  
## WT/BR:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## Q75  
## BL/BR:AftHigh 56.75999  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 57.86759  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.67646  
## BRN:AftLow 55.80000  
## WHT:AftHigh 57.43824  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 57.09191  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 56.46380  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.80390 a  
## BRN:AftHigh 57.37271 ab  
## WHT:AftHigh 57.16816 abc  
## WT/BLK:AftHigh 56.98301 abc  
## BL/BR:AftHigh 56.38229 abcd  
## WT/BR:AftHigh 56.02166 abcd  
## BLK:AftLow 55.66667 abcd  
## BRN:AftLow 55.26667 bcde  
## WHT:AftLow 54.80000 cde  
## WT/BLK:AftLow 54.53333 de  
## BL/BR:AftLow 54.03333 de  
## WT/BR:AftLow 53.00000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT39 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 18.757 3.751 3.8234 0.0109 \*   
## THIregime 1 50.776 50.776 51.7494 1.961e-07 \*\*\*  
## Colour:THIregime 5 1.233 0.247 0.2512 0.9350   
## Residuals 24 23.548 0.981   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.981182   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.61644 1.620837 6 53.2 57.30360  
## BLK 57.44508 1.771234 6 54.2 59.02192  
## BRN 57.48813 1.558975 6 54.7 59.06510  
## WHT 56.07938 1.512897 6 54.6 57.52967  
## WT/BLK 56.47687 1.444683 6 54.3 58.08939  
## WT/BR 55.95313 1.593911 6 53.8 57.76706  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.768251   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.48813 a  
## BLK 57.44508 a  
## WT/BLK 56.47687 ab  
## WHT 56.07938 ab  
## WT/BR 55.95313 ab  
## BL/BR 55.61644 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.981182   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.69745 0.801728 18 56.40586 59.0651  
## AftLow 55.32222 1.385027 18 53.20000 57.8000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6814623   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.69745 a  
## AftLow 55.32222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.981182 24 56.50984 1.752874 2.916152  
##   
## $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 56.96622 0.48864082 3 56.40586 57.30360 56.79753 57.18919  
## BL/BR:AftLow 54.26667 0.92915732 3 53.20000 54.90000 53.95000 54.70000  
## BLK:AftHigh 58.39017 1.09253082 3 57.12862 59.02192 58.07429 59.01996  
## BLK:AftLow 56.50000 1.99248588 3 54.20000 57.70000 55.90000 57.60000  
## BRN:AftHigh 58.44292 0.83533085 3 57.49352 59.06510 58.13183 58.77015  
## BRN:AftLow 56.53333 1.62583312 3 54.70000 57.80000 55.90000 57.10000  
## WHT:AftHigh 57.45875 0.06415191 3 57.40476 57.52967 57.42329 57.44183  
## WHT:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## WT/BLK:AftHigh 57.62042 0.65679747 3 56.86976 58.08939 57.38593 57.90209  
## WT/BLK:AftLow 55.33333 0.92915732 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 57.30626 0.46745483 3 56.83242 57.76706 57.07585 57.31928  
## WT/BR:AftLow 54.60000 0.80000000 3 53.80000 55.40000 54.20000 54.60000  
## Q75  
## BL/BR:AftHigh 57.24639  
## BL/BR:AftLow 54.80000  
## BLK:AftHigh 59.02094  
## BLK:AftLow 57.65000  
## BRN:AftHigh 58.91762  
## BRN:AftLow 57.45000  
## WHT:AftHigh 57.48575  
## WHT:AftLow 54.75000  
## WT/BLK:AftHigh 57.99574  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 57.54317  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.44292 a  
## BLK:AftHigh 58.39017 a  
## WT/BLK:AftHigh 57.62042 ab  
## WHT:AftHigh 57.45875 abc  
## WT/BR:AftHigh 57.30626 abc  
## BL/BR:AftHigh 56.96622 abcd  
## BRN:AftLow 56.53333 abcd  
## BLK:AftLow 56.50000 abcd  
## WT/BLK:AftLow 55.33333 bcd  
## WHT:AftLow 54.70000 cd  
## WT/BR:AftLow 54.60000 cd  
## BL/BR:AftLow 54.26667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT40 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 20.536 4.107 15.3590 8.302e-07 \*\*\*  
## THIregime 1 50.228 50.228 187.8294 7.621e-13 \*\*\*  
## Colour:THIregime 5 1.508 0.302 1.1275 0.3727   
## Residuals 24 6.418 0.267   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2674123   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.71067 1.339939 6 53.2 56.02821  
## BLK 56.38642 1.138368 6 54.7 57.55674  
## BRN 55.49555 1.215414 6 54.2 56.75402  
## WHT 56.07700 1.107174 6 54.7 57.27255  
## WT/BLK 54.54794 1.947574 6 51.6 56.71295  
## WT/BR 54.46959 1.429417 6 53.1 55.81689  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9231236   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.38642 a  
## WHT 56.07700 a  
## BRN 55.49555 ab  
## BL/BR 54.71067 bc  
## WT/BLK 54.54794 c  
## WT/BR 54.46959 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2674123   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.46239 0.6920245 18 55.05338 57.55674  
## AftLow 54.10000 1.0932951 18 51.60000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3557605   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.46239 a  
## AftLow 54.10000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2674123 24 55.28119 0.9354342 1.522391  
##   
## $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 55.92135 0.14625571 3 55.75467 56.02821 55.86792 55.98117  
## BL/BR:AftLow 53.50000 0.26457513 3 53.20000 53.70000 53.40000 53.60000  
## BLK:AftHigh 57.33951 0.31817129 3 56.97430 57.55674 57.23090 57.48750  
## BLK:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## BRN:AftHigh 56.59110 0.14969088 3 56.45964 56.75402 56.50963 56.55962  
## BRN:AftLow 54.40000 0.26457513 3 54.20000 54.70000 54.25000 54.30000  
## WHT:AftHigh 57.05399 0.20252341 3 56.87266 57.27255 56.94472 57.01677  
## WHT:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BLK:AftHigh 56.09587 0.90789960 3 55.05338 56.71295 55.78734 56.52129  
## WT/BLK:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 55.77250 0.04418206 3 55.72853 55.81689 55.75031 55.77209  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 56.00469  
## BL/BR:AftLow 53.65000  
## BLK:AftHigh 57.52212  
## BLK:AftLow 55.80000  
## BRN:AftHigh 56.65682  
## BRN:AftLow 54.50000  
## WHT:AftHigh 57.14466  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 56.61712  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 55.79449  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.33951 a  
## WHT:AftHigh 57.05399 ab  
## BRN:AftHigh 56.59110 abc  
## WT/BLK:AftHigh 56.09587 abc  
## BL/BR:AftHigh 55.92135 abcd  
## WT/BR:AftHigh 55.77250 bcd  
## BLK:AftLow 55.43333 cd  
## WHT:AftLow 55.10000 cd  
## BRN:AftLow 54.40000 de  
## BL/BR:AftLow 53.50000 e  
## WT/BR:AftLow 53.16667 e  
## WT/BLK:AftLow 53.00000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT41 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 13.768 2.754 11.8498 7.517e-06 \*\*\*  
## THIregime 1 61.516 61.516 264.7170 1.826e-14 \*\*\*  
## Colour:THIregime 5 0.917 0.183 0.7894 0.5677   
## Residuals 24 5.577 0.232   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2323823   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.15920 1.636363 6 53.6 56.73255  
## BLK 56.14271 1.476305 6 54.6 57.54678  
## BRN 57.22741 1.239717 6 55.7 58.70323  
## WHT 55.86994 1.540882 6 54.3 57.34326  
## WT/BLK 55.97590 1.622929 6 53.8 57.84547  
## WT/BR 56.36802 1.483139 6 54.6 58.14515  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8605393   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.22741 a  
## WT/BR 56.36802 ab  
## BLK 56.14271 b  
## WT/BLK 55.97590 bc  
## WHT 55.86994 bc  
## BL/BR 55.15920 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2323823   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.43106 0.5561303 18 56.55614 58.70323  
## AftLow 54.81667 0.9394930 18 53.60000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3316413   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.43106 a  
## AftLow 54.81667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2323823 24 56.12386 0.8589224 1.419178  
##   
## $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 56.65173 0.08912720 3 56.55614 56.73255 56.61131 56.66649  
## BL/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## BLK:AftHigh 57.48543 0.10025459 3 57.36973 57.54678 57.45475 57.53977  
## BLK:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BRN:AftHigh 58.22149 0.41753157 3 57.96395 58.70323 57.98062 57.99730  
## BRN:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## WHT:AftHigh 57.27322 0.07014191 3 57.20298 57.34326 57.23819 57.27340  
## WHT:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BLK:AftHigh 57.35181 0.51519277 3 56.81749 57.84547 57.10498 57.39246  
## WT/BLK:AftLow 54.60000 0.80000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BR:AftHigh 57.60270 0.47178749 3 57.28792 58.14515 57.33148 57.37504  
## WT/BR:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 56.69952  
## BL/BR:AftLow 53.70000  
## BLK:AftHigh 57.54327  
## BLK:AftLow 54.90000  
## BRN:AftHigh 58.35026  
## BRN:AftLow 56.50000  
## WHT:AftHigh 57.30833  
## WHT:AftLow 54.55000  
## WT/BLK:AftHigh 57.61896  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.76009  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.22149 a  
## WT/BR:AftHigh 57.60270 ab  
## BLK:AftHigh 57.48543 ab  
## WT/BLK:AftHigh 57.35181 ab  
## WHT:AftHigh 57.27322 ab  
## BL/BR:AftHigh 56.65173 b  
## BRN:AftLow 56.23333 bc  
## WT/BR:AftLow 55.13333 cd  
## BLK:AftLow 54.80000 de  
## WT/BLK:AftLow 54.60000 de  
## WHT:AftLow 54.46667 de  
## BL/BR:AftLow 53.66667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT42 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 81.060 16.212 84.3877 1.984e-14 \*\*\*  
## THIregime 1 39.204 39.204 204.0645 3.129e-13 \*\*\*  
## Colour:THIregime 5 4.528 0.906 4.7135 0.003861 \*\*   
## Residuals 24 4.611 0.192   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.1921135   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.94805 1.2236416 6 53.7 56.10313  
## BLK 57.61484 0.9598365 6 56.3 58.75646  
## BRN 58.05755 0.5142981 6 57.3 58.69224  
## WHT 55.30394 1.5661813 6 53.1 56.97430  
## WT/BLK 54.53036 1.4964875 6 53.1 55.98117  
## WT/BR 54.20653 1.5142303 6 52.5 55.92890  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.7824347   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 58.05755 a  
## BLK 57.61484 a  
## WHT 55.30394 b  
## BL/BR 54.94805 bc  
## WT/BLK 54.53036 bc  
## WT/BR 54.20653 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.1921135   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.82042 1.227106 18 55.26681 58.75646  
## AftLow 54.73333 1.949359 18 52.50000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3015407   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.82042 a  
## AftLow 54.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.1921135 24 55.77688 0.7858229 1.29037  
##   
## $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 56.06277 0.04610055 3 56.01253 56.10313 56.04259 56.07264  
## BL/BR:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## BLK:AftHigh 58.32968 0.37447800 3 58.05606 58.75646 58.11629 58.17651  
## BLK:AftLow 56.90000 0.79372539 3 56.30000 57.80000 56.45000 56.60000  
## BRN:AftHigh 58.48178 0.19501842 3 58.30718 58.69224 58.37654 58.44590  
## BRN:AftLow 57.63333 0.28867513 3 57.30000 57.80000 57.55000 57.80000  
## WHT:AftHigh 56.64121 0.40509566 3 56.19025 56.97430 56.47466 56.75907  
## WHT:AftLow 53.96667 0.77674535 3 53.10000 54.60000 53.65000 54.20000  
## WT/BLK:AftHigh 55.89405 0.07984374 3 55.82436 55.98117 55.85050 55.87663  
## WT/BLK:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BR:AftHigh 55.51306 0.36215954 3 55.26681 55.92890 55.30514 55.34348  
## WT/BR:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 56.08789  
## BL/BR:AftLow 53.90000  
## BLK:AftHigh 58.46648  
## BLK:AftLow 57.20000  
## BRN:AftHigh 58.56907  
## BRN:AftLow 57.80000  
## WHT:AftHigh 56.86669  
## WHT:AftLow 54.40000  
## WT/BLK:AftHigh 55.92890  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 55.63619  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.48178 a  
## BLK:AftHigh 58.32968 a  
## BRN:AftLow 57.63333 ab  
## BLK:AftLow 56.90000 bc  
## WHT:AftHigh 56.64121 bcd  
## BL/BR:AftHigh 56.06277 cd  
## WT/BLK:AftHigh 55.89405 cd  
## WT/BR:AftHigh 55.51306 d  
## WHT:AftLow 53.96667 e  
## BL/BR:AftLow 53.83333 e  
## WT/BLK:AftLow 53.16667 e  
## WT/BR:AftLow 52.90000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT43 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 45.557 9.111 9.5178 4.196e-05 \*\*\*  
## THIregime 1 51.792 51.792 54.1023 1.350e-07 \*\*\*  
## Colour:THIregime 5 3.120 0.624 0.6518 0.663   
## Residuals 24 22.975 0.957   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9572987   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.12935 2.225349 6 51.4 57.01350  
## BLK 57.59366 1.524689 6 54.8 58.86790  
## BRN 56.03798 1.198845 6 54.6 57.40366  
## WHT 55.09864 1.459809 6 53.7 56.46140  
## WT/BLK 56.30718 1.422171 6 54.6 58.01970  
## WT/BR 54.86319 1.646123 6 52.6 56.50387  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.746598   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.59366 a  
## WT/BLK 56.30718 ab  
## BRN 56.03798 ab  
## WHT 55.09864 bc  
## WT/BR 54.86319 bc  
## BL/BR 54.12935 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9572987   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.87111 1.039117 18 54.99327 58.8679  
## AftLow 54.47222 1.770612 18 51.40000 58.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6731174   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.87111 a  
## AftLow 54.47222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9572987 24 55.67167 1.757476 2.880442  
##   
## $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 55.69204 1.14505263 3 54.99327 57.01350 55.03131 55.06935  
## BL/BR:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## BLK:AftHigh 58.25399 1.03935575 3 57.05395 58.86790 57.94703 58.84011  
## BLK:AftLow 56.93333 1.85022521 3 54.80000 58.10000 56.35000 57.90000  
## BRN:AftHigh 57.07596 0.28436342 3 56.89415 57.40366 56.91211 56.93007  
## BRN:AftLow 55.00000 0.52915026 3 54.60000 55.60000 54.70000 54.80000  
## WHT:AftHigh 56.43061 0.04266752 3 56.38191 56.46140 56.41522 56.44853  
## WHT:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BLK:AftHigh 57.48103 0.46833480 3 57.17031 58.01970 57.21169 57.25307  
## WT/BLK:AftLow 55.13333 0.83864971 3 54.60000 56.10000 54.65000 54.70000  
## WT/BR:AftHigh 56.29305 0.34277060 3 55.89754 56.50387 56.18764 56.47774  
## WT/BR:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 56.04143  
## BL/BR:AftLow 53.15000  
## BLK:AftHigh 58.85401  
## BLK:AftLow 58.00000  
## BRN:AftHigh 57.16687  
## BRN:AftLow 55.20000  
## WHT:AftHigh 56.45496  
## WHT:AftLow 53.80000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 56.49080  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.25399 a  
## WT/BLK:AftHigh 57.48103 ab  
## BRN:AftHigh 57.07596 ab  
## BLK:AftLow 56.93333 ab  
## WHT:AftHigh 56.43061 abc  
## WT/BR:AftHigh 56.29305 abcd  
## BL/BR:AftHigh 55.69204 abcd  
## WT/BLK:AftLow 55.13333 bcde  
## BRN:AftLow 55.00000 bcde  
## WHT:AftLow 53.76667 cde  
## WT/BR:AftLow 53.43333 de  
## BL/BR:AftLow 52.56667 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT44 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 76.029 15.206 33.8993 4.006e-10 \*\*\*  
## THIregime 1 38.992 38.992 86.9272 1.896e-09 \*\*\*  
## Colour:THIregime 5 3.205 0.641 1.4292 0.2497   
## Residuals 24 10.765 0.449   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4485555   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.35581 0.7885386 6 55.2 57.18861  
## BLK 56.44127 1.3867074 6 54.8 58.05455  
## BRN 57.82521 0.9822594 6 56.1 58.77936  
## WHT 55.76344 1.4983249 6 53.7 57.28792  
## WT/BLK 54.12624 1.4354324 6 52.5 55.81129  
## WT/BR 53.53236 1.6665737 6 51.3 55.57048  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.195576   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.82521 a  
## BLK 56.44127 b  
## BL/BR 56.35581 b  
## WHT 55.76344 b  
## WT/BLK 54.12624 c  
## WT/BR 53.53236 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4485555   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.71478 1.340314 18 54.37125 58.77936  
## AftLow 54.63333 1.870200 18 51.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4607604   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.71478 a  
## AftLow 54.63333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4485555 24 55.67406 1.202971 1.971712  
##   
## $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 57.01161 0.2328788 3 56.74780 57.18861 56.92312 57.09844  
## BL/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 57.61588 0.3807525 3 57.37108 58.05455 57.39654 57.42200  
## BLK:AftLow 55.26667 0.7234178 3 54.80000 56.10000 54.85000 54.90000  
## BRN:AftHigh 58.41709 0.6227250 3 57.69804 58.77936 58.23596 58.77388  
## BRN:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## WHT:AftHigh 57.06021 0.3525239 3 56.65415 57.28792 56.94635 57.23855  
## WHT:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BLK:AftHigh 55.35248 0.4002234 3 55.07516 55.81129 55.12307 55.17099  
## WT/BLK:AftLow 52.90000 0.6928203 3 52.50000 53.70000 52.50000 52.50000  
## WT/BR:AftHigh 54.83140 0.6464436 3 54.37125 55.57048 54.46186 54.55246  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 57.14352  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 57.73828  
## BLK:AftLow 55.50000  
## BRN:AftHigh 58.77662  
## BRN:AftLow 57.80000  
## WHT:AftHigh 57.26324  
## WHT:AftLow 54.85000  
## WT/BLK:AftHigh 55.49114  
## WT/BLK:AftLow 53.10000  
## WT/BR:AftHigh 55.06147  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.41709 a  
## BLK:AftHigh 57.61588 ab  
## BRN:AftLow 57.23333 abc  
## WHT:AftHigh 57.06021 abc  
## BL/BR:AftHigh 57.01161 abc  
## BL/BR:AftLow 55.70000 bcd  
## WT/BLK:AftHigh 55.35248 cd  
## BLK:AftLow 55.26667 cd  
## WT/BR:AftHigh 54.83140 de  
## WHT:AftLow 54.46667 de  
## WT/BLK:AftLow 52.90000 ef  
## WT/BR:AftLow 52.23333 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT45 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 14.606 2.921 4.0915 0.007912 \*\*   
## THIregime 1 45.320 45.320 63.4753 3.394e-08 \*\*\*  
## Colour:THIregime 5 0.472 0.094 0.1322 0.983406   
## Residuals 24 17.136 0.714   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7139814   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.36454 1.743010 6 52.8 57.53359  
## BLK 56.75632 1.291693 6 54.6 58.23787  
## BRN 55.32419 1.419165 6 53.7 56.87378  
## WHT 55.69454 1.484501 6 53.6 57.47087  
## WT/BLK 54.62159 1.410959 6 52.6 56.13798  
## WT/BR 55.43752 1.292452 6 53.6 56.74431  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.508386   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.75632 a  
## WHT 55.69454 ab  
## WT/BR 55.43752 ab  
## BL/BR 55.36454 ab  
## BRN 55.32419 ab  
## WT/BLK 54.62159 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7139814   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.65512 0.7442396 18 55.27553 58.23787  
## AftLow 54.41111 1.1580353 18 52.60000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5813136   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.65512 a  
## AftLow 54.41111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7139814 24 55.53312 1.521568 2.48759  
##   
## $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 56.49574 0.9449975 3 55.68497 57.53359 55.97681 56.26866  
## BL/BR:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## BLK:AftHigh 57.64598 0.6583142 3 56.93696 58.23787 57.35003 57.76310  
## BLK:AftLow 55.86667 1.1676187 3 54.60000 56.90000 55.35000 56.10000  
## BRN:AftHigh 56.58171 0.2601323 3 56.37494 56.87378 56.43567 56.49640  
## BRN:AftLow 54.06667 0.4725816 3 53.70000 54.60000 53.80000 53.90000  
## WHT:AftHigh 56.85575 0.5663917 3 56.35577 57.47087 56.54820 56.74062  
## WHT:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BLK:AftHigh 55.80984 0.4667318 3 55.27553 56.13798 55.64577 56.01602  
## WT/BLK:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WT/BR:AftHigh 56.54170 0.3241474 3 56.16785 56.74431 56.44040 56.71295  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 56.90112  
## BL/BR:AftLow 54.95000  
## BLK:AftHigh 58.00049  
## BLK:AftLow 56.50000  
## BRN:AftHigh 56.68509  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.10574  
## WHT:AftLow 55.00000  
## WT/BLK:AftHigh 56.07700  
## WT/BLK:AftLow 53.85000  
## WT/BR:AftHigh 56.72863  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.64598 a  
## WHT:AftHigh 56.85575 ab  
## BRN:AftHigh 56.58171 abc  
## WT/BR:AftHigh 56.54170 abcd  
## BL/BR:AftHigh 56.49574 abcd  
## BLK:AftLow 55.86667 abcde  
## WT/BLK:AftHigh 55.80984 abcde  
## WHT:AftLow 54.53333 bcde  
## WT/BR:AftLow 54.33333 cde  
## BL/BR:AftLow 54.23333 cde  
## BRN:AftLow 54.06667 de  
## WT/BLK:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT46 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 41.462 8.292 11.3061 1.099e-05 \*\*\*  
## THIregime 1 32.501 32.501 44.3133 6.936e-07 \*\*\*  
## Colour:THIregime 5 0.883 0.177 0.2409 0.9403   
## Residuals 24 17.603 0.733   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7334472   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.80511 1.9116779 6 51.6 57.01350  
## BLK 56.24108 0.8989457 6 54.9 57.19247  
## BRN 56.52089 0.9706083 6 55.4 57.54927  
## WHT 55.68998 1.2843303 6 54.2 56.94817  
## WT/BLK 53.26948 1.4619249 6 51.3 55.22326  
## WT/BR 55.17446 1.0030369 6 53.7 56.26492  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.52881   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 56.52089 a  
## BLK 56.24108 ab  
## WHT 55.68998 ab  
## WT/BR 55.17446 ab  
## BL/BR 54.80511 b  
## WT/BLK 53.26948 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7334472   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.23367 1.161850 18 53.68129 57.54927  
## AftLow 54.33333 1.475287 18 51.30000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5891847   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.23367 a  
## AftLow 54.33333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7334472 24 55.2835 1.549134 2.521273  
##   
## $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 55.91022 1.1236022 3 54.76734 57.01350 55.35858 55.94981  
## BL/BR:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## BLK:AftHigh 56.98216 0.3204144 3 56.61339 57.19247 56.87700 57.14061  
## BLK:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BRN:AftHigh 57.37512 0.1508618 3 57.28444 57.54927 57.28804 57.29165  
## BRN:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## WHT:AftHigh 56.84664 0.1640175 3 56.65741 56.94817 56.79587 56.93433  
## WHT:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BLK:AftHigh 54.30563 0.8117447 3 53.68129 55.22326 53.84681 54.01233  
## WT/BLK:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## WT/BR:AftHigh 55.98225 0.4629205 3 55.44802 56.26492 55.84091 56.23381  
## WT/BR:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 56.48166  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 57.16654  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.42046  
## BRN:AftLow 55.80000  
## WHT:AftHigh 56.94125  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 54.61779  
## WT/BLK:AftLow 52.70000  
## WT/BR:AftHigh 56.24936  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.37512 a  
## BLK:AftHigh 56.98216 ab  
## WHT:AftHigh 56.84664 abc  
## WT/BR:AftHigh 55.98225 abcd  
## BL/BR:AftHigh 55.91022 abcd  
## BRN:AftLow 55.66667 abcd  
## BLK:AftLow 55.50000 abcd  
## WHT:AftLow 54.53333 bcde  
## WT/BR:AftLow 54.36667 cde  
## WT/BLK:AftHigh 54.30563 de  
## BL/BR:AftLow 53.70000 de  
## WT/BLK:AftLow 52.23333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT47 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 9.328 1.866 2.7860 0.04024 \*   
## THIregime 1 50.151 50.151 74.8928 7.639e-09 \*\*\*  
## Colour:THIregime 5 0.785 0.157 0.2344 0.94353   
## Residuals 24 16.071 0.670   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6696413   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.78524 1.237571 6 55.2 58.13469  
## BLK 56.64932 1.409226 6 54.7 58.10682  
## BRN 57.43249 1.771197 6 54.2 59.03025  
## WHT 56.58241 1.522501 6 54.3 58.23800  
## WT/BLK 55.74674 1.630661 6 53.6 57.54927  
## WT/BR 56.28556 1.330345 6 54.7 57.70608  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.460798   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.43249 a  
## BL/BR 56.78524 ab  
## BLK 56.64932 ab  
## WHT 56.58241 ab  
## WT/BR 56.28556 ab  
## WT/BLK 55.74674 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6696413   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.76059 0.6195076 18 56.60841 59.03025  
## AftLow 55.40000 1.0753932 18 53.60000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5629738   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.76059 a  
## AftLow 55.40000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6696413 24 56.58029 1.446292 2.40911  
##   
## $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 57.87049 0.2927279 3 57.55580 58.13469 57.73839 57.92097  
## BL/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## BLK:AftHigh 57.86531 0.3399623 3 57.47655 58.10682 57.74456 58.01257  
## BLK:AftLow 55.43333 0.6429101 3 54.70000 55.90000 55.20000 55.70000  
## BRN:AftHigh 58.36498 1.1243888 3 57.06678 59.03025 58.03234 58.99790  
## BRN:AftLow 56.50000 1.9924859 3 54.20000 57.70000 55.90000 57.60000  
## WHT:AftHigh 57.83148 0.5011322 3 57.27159 58.23800 57.62822 57.98485  
## WHT:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BLK:AftHigh 57.16015 0.4910578 3 56.60841 57.54927 56.96559 57.32277  
## WT/BLK:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## WT/BR:AftHigh 57.47111 0.2188845 3 57.27299 57.70608 57.35363 57.43428  
## WT/BR:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## Q75  
## BL/BR:AftHigh 58.02783  
## BL/BR:AftLow 55.95000  
## BLK:AftHigh 58.05969  
## BLK:AftLow 55.80000  
## BRN:AftHigh 59.01407  
## BRN:AftLow 57.65000  
## WHT:AftHigh 58.11143  
## WHT:AftLow 55.85000  
## WT/BLK:AftHigh 57.43602  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 57.57018  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.36498 a  
## BL/BR:AftHigh 57.87049 ab  
## BLK:AftHigh 57.86531 ab  
## WHT:AftHigh 57.83148 abc  
## WT/BR:AftHigh 57.47111 abcd  
## WT/BLK:AftHigh 57.16015 abcd  
## BRN:AftLow 56.50000 abcde  
## BL/BR:AftLow 55.70000 bcde  
## BLK:AftLow 55.43333 cde  
## WHT:AftLow 55.33333 de  
## WT/BR:AftLow 55.10000 de  
## WT/BLK:AftLow 54.33333 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 17.261 3.452 8.6831 8.272e-05 \*\*\*  
## THIregime 1 61.987 61.987 155.9101 5.467e-12 \*\*\*  
## Colour:THIregime 5 1.328 0.266 0.6681 0.6513   
## Residuals 24 9.542 0.398   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3975821   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.05169 1.646311 6 53.6 57.95175  
## BLK 56.06420 1.390462 6 54.6 57.38296  
## BRN 56.59072 1.348158 6 54.7 57.97949  
## WHT 54.68715 2.049377 6 51.6 56.79789  
## WT/BLK 55.72856 1.548134 6 53.7 57.32277  
## WT/BR 56.85087 1.230245 6 55.3 58.12424  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.125596   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.85087 a  
## BRN 56.59072 a  
## BLK 56.06420 a  
## BL/BR 56.05169 a  
## WT/BLK 55.72856 ab  
## WHT 54.68715 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3975821   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.30773 0.6318153 18 55.56591 58.12424  
## AftLow 54.68333 1.1205303 18 51.60000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4337909   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.30773 a  
## AftLow 54.68333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3975821 24 55.99553 1.126056 1.856303  
##   
## $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 57.37005 0.59017276 3 56.77175 57.95175 57.07920 57.38665  
## BL/BR:AftLow 54.73333 1.10151411 3 53.60000 55.80000 54.20000 54.80000  
## BLK:AftHigh 57.32840 0.09410164 3 57.21974 57.38296 57.30112 57.38250  
## BLK:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## BRN:AftHigh 57.74810 0.33449229 3 57.36458 57.97949 57.63240 57.90023  
## BRN:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## WHT:AftHigh 56.37429 0.70034418 3 55.56591 56.79789 56.16249 56.75907  
## WHT:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WT/BLK:AftHigh 57.09046 0.29015648 3 56.76522 57.32277 56.97430 57.18338  
## WT/BLK:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## WT/BR:AftHigh 57.93507 0.28971488 3 57.60154 58.12424 57.84049 58.07944  
## WT/BR:AftLow 55.76667 0.41633320 3 55.30000 56.10000 55.60000 55.90000  
## Q75  
## BL/BR:AftHigh 57.66920  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 57.38273  
## BLK:AftLow 54.90000  
## BRN:AftHigh 57.93986  
## BRN:AftLow 55.80000  
## WHT:AftHigh 56.77848  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 57.25307  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 58.10184  
## WT/BR:AftLow 56.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 57.93507 a  
## BRN:AftHigh 57.74810 a  
## BL/BR:AftHigh 57.37005 ab  
## BLK:AftHigh 57.32840 ab  
## WT/BLK:AftHigh 57.09046 abc  
## WHT:AftHigh 56.37429 abcd  
## WT/BR:AftLow 55.76667 bcde  
## BRN:AftLow 55.43333 cde  
## BLK:AftLow 54.80000 def  
## BL/BR:AftLow 54.73333 def  
## WT/BLK:AftLow 54.36667 ef  
## WHT:AftLow 53.00000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT49 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 18.874 3.775 2.7811 0.0405 \*   
## THIregime 1 52.794 52.794 38.8960 1.91e-06 \*\*\*  
## Colour:THIregime 5 0.879 0.176 0.1295 0.9842   
## Residuals 24 32.576 1.357   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.357322   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.96580 2.200875 6 51.6 57.71915  
## BLK 57.26549 1.848689 6 53.9 59.07874  
## BRN 55.99155 1.311037 6 54.6 57.23938  
## WHT 55.84506 1.479992 6 53.8 57.52467  
## WT/BLK 56.23970 1.282745 6 54.7 57.65381  
## WT/BR 55.35837 1.852998 6 52.7 57.63141  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.079747   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.26549 a  
## WT/BLK 56.23970 ab  
## BRN 55.99155 ab  
## WHT 55.84506 ab  
## WT/BR 55.35837 ab  
## BL/BR 54.96580 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.357322   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.15532 0.8920647 18 55.34812 59.07874  
## AftLow 54.73333 1.5107458 18 51.60000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8015091   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.15532 a  
## AftLow 54.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.357322 24 55.94433 2.082502 3.429864  
##   
## $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 56.39827 1.20847632 3 55.34812 57.71915 55.73782 56.12753  
## BL/BR:AftLow 53.53333 2.11974841 3 51.60000 55.80000 52.40000 53.20000  
## BLK:AftHigh 58.19765 1.17219492 3 56.86727 59.07874 57.75711 58.64694  
## BLK:AftLow 56.33333 2.13619600 3 53.90000 57.90000 55.55000 57.20000  
## BRN:AftHigh 57.18311 0.08747717 3 57.08232 57.23938 57.15497 57.22761  
## BRN:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## WHT:AftHigh 57.09012 0.43060017 3 56.66358 57.52467 56.87285 57.08211  
## WHT:AftLow 54.60000 0.80000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BLK:AftHigh 57.37939 0.23845950 3 57.22258 57.65381 57.24218 57.26179  
## WT/BLK:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 56.68341 0.87947409 3 55.89405 57.63141 56.20942 56.52478  
## WT/BR:AftLow 54.03333 1.59478316 3 52.70000 55.80000 53.15000 53.60000  
## Q75  
## BL/BR:AftHigh 56.92334  
## BL/BR:AftLow 54.50000  
## BLK:AftHigh 58.86284  
## BLK:AftLow 57.55000  
## BRN:AftHigh 57.23350  
## BRN:AftLow 54.90000  
## WHT:AftHigh 57.30339  
## WHT:AftLow 55.00000  
## WT/BLK:AftHigh 57.45780  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.07809  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.19765 a  
## WT/BLK:AftHigh 57.37939 ab  
## BRN:AftHigh 57.18311 ab  
## WHT:AftHigh 57.09012 ab  
## WT/BR:AftHigh 56.68341 abc  
## BL/BR:AftHigh 56.39827 abc  
## BLK:AftLow 56.33333 abc  
## WT/BLK:AftLow 55.10000 abc  
## BRN:AftLow 54.80000 abc  
## WHT:AftLow 54.60000 bc  
## WT/BR:AftLow 54.03333 bc  
## BL/BR:AftLow 53.53333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT50 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 34.943 6.989 22.137 2.839e-08 \*\*\*  
## THIregime 1 66.686 66.686 211.240 2.154e-13 \*\*\*  
## Colour:THIregime 5 2.466 0.493 1.562 0.2087   
## Residuals 24 7.577 0.316   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.31569   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.30105 1.506091 6 54.3 58.03538  
## BLK 55.37747 1.754748 6 53.1 57.35761  
## BRN 57.79492 1.126701 6 56.3 59.11737  
## WHT 54.90104 1.901440 6 53.1 56.66395  
## WT/BLK 57.03983 1.428703 6 55.3 58.50755  
## WT/BR 55.75186 1.752744 6 53.2 57.53434  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.002997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.79492 a  
## WT/BLK 57.03983 ab  
## BL/BR 56.30105 bc  
## WT/BR 55.75186 cd  
## BLK 55.37747 cd  
## WHT 54.90104 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.31569   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.55539 0.818348 18 56.44933 59.11737  
## AftLow 54.83333 1.405870 18 53.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3865427   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.55539 a  
## AftLow 54.83333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.31569 24 56.19436 0.9998565 1.654116  
##   
## $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 57.56877 0.44283107 3 57.15434 58.03538 57.33547 57.51660  
## BL/BR:AftLow 55.03333 0.80829038 3 54.30000 55.90000 54.60000 54.90000  
## BLK:AftHigh 56.88827 0.45490510 3 56.44933 57.35761 56.65360 56.85788  
## BLK:AftLow 53.86667 0.80208063 3 53.10000 54.70000 53.45000 53.80000  
## BRN:AftHigh 58.68983 0.37551112 3 58.41347 59.11737 58.47607 58.53867  
## BRN:AftLow 56.90000 0.79372539 3 56.30000 57.80000 56.45000 56.60000  
## WHT:AftHigh 56.63541 0.03517332 3 56.59611 56.66395 56.62114 56.64616  
## WHT:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BLK:AftHigh 58.31299 0.25847874 3 58.01970 58.50755 58.21571 58.41173  
## WT/BLK:AftLow 55.76667 0.41633320 3 55.30000 56.10000 55.60000 55.90000  
## WT/BR:AftHigh 57.23706 0.44667458 3 56.72340 57.53434 57.08842 57.45344  
## WT/BR:AftLow 54.26667 0.92915732 3 53.20000 54.90000 53.95000 54.70000  
## Q75  
## BL/BR:AftHigh 57.77599  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 57.10775  
## BLK:AftLow 54.25000  
## BRN:AftHigh 58.82802  
## BRN:AftLow 57.20000  
## WHT:AftHigh 56.65505  
## WHT:AftLow 53.20000  
## WT/BLK:AftHigh 58.45964  
## WT/BLK:AftLow 56.00000  
## WT/BR:AftHigh 57.49389  
## WT/BR:AftLow 54.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.68983 a  
## WT/BLK:AftHigh 58.31299 ab  
## BL/BR:AftHigh 57.56877 abc  
## WT/BR:AftHigh 57.23706 abcd  
## BRN:AftLow 56.90000 bcd  
## BLK:AftHigh 56.88827 bcd  
## WHT:AftHigh 56.63541 cde  
## WT/BLK:AftLow 55.76667 def  
## BL/BR:AftLow 55.03333 efg  
## WT/BR:AftLow 54.26667 fgh  
## BLK:AftLow 53.86667 gh  
## WHT:AftLow 53.16667 h  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT51 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 53.911 10.782 13.0805 3.315e-06 \*\*\*  
## THIregime 1 41.796 41.796 50.7055 2.324e-07 \*\*\*  
## Colour:THIregime 5 2.464 0.493 0.5979 0.7019   
## Residuals 24 19.783 0.824   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8242872   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.36613 1.1908232 6 54.6 57.61896  
## BLK 58.40023 0.8908228 6 57.1 59.41963  
## BRN 57.69778 1.5899287 6 54.8 59.08003  
## WHT 56.39132 1.5040470 6 54.6 58.16998  
## WT/BLK 55.35644 1.8607267 6 52.7 57.64074  
## WT/BR 54.88640 1.5312202 6 53.2 56.39933  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.620722   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.40023 a  
## BRN 57.69778 ab  
## WHT 56.39132 bc  
## BL/BR 56.36613 bc  
## WT/BLK 55.35644 c  
## WT/BR 54.88640 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8242872   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.59388 1.142106 18 55.78951 59.41963  
## AftLow 55.43889 1.781981 18 52.70000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6246062   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.59388 a  
## AftLow 55.43889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8242872 24 56.51638 1.606441 2.672851  
##   
## $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 57.36560 0.3240659 3 57.00044 57.61896 57.23892 57.47740  
## BL/BR:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## BLK:AftHigh 59.13380 0.3259256 3 58.77886 59.41963 58.99088 59.20290  
## BLK:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## BRN:AftHigh 58.46223 1.0692113 3 57.22761 59.08003 58.15332 59.07904  
## BRN:AftLow 56.93333 1.8502252 3 54.80000 58.10000 56.35000 57.90000  
## WHT:AftHigh 57.64930 0.4522197 3 57.35471 58.16998 57.38896 57.42321  
## WHT:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WT/BLK:AftHigh 56.67956 0.9276630 3 55.78951 57.64074 56.19896 56.60841  
## WT/BLK:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## WT/BR:AftHigh 56.27280 0.1589308 3 56.09442 56.39933 56.20954 56.32466  
## WT/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## Q75  
## BL/BR:AftHigh 57.54818  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 59.31126  
## BLK:AftLow 57.95000  
## BRN:AftHigh 59.07954  
## BRN:AftLow 58.00000  
## WHT:AftHigh 57.79659  
## WHT:AftLow 55.40000  
## WT/BLK:AftHigh 57.12458  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 56.36199  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 59.13380 a  
## BRN:AftHigh 58.46223 ab  
## BLK:AftLow 57.66667 abc  
## WHT:AftHigh 57.64930 abc  
## BL/BR:AftHigh 57.36560 abc  
## BRN:AftLow 56.93333 abc  
## WT/BLK:AftHigh 56.67956 abcd  
## WT/BR:AftHigh 56.27280 bcd  
## BL/BR:AftLow 55.36667 cde  
## WHT:AftLow 55.13333 cde  
## WT/BLK:AftLow 54.03333 de  
## WT/BR:AftLow 53.50000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT52 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 22.988 4.598 4.0688 0.008127 \*\*   
## THIregime 1 52.986 52.986 46.8906 4.409e-07 \*\*\*  
## Colour:THIregime 5 1.639 0.328 0.2901 0.913782   
## Residuals 24 27.120 1.130   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.129987   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.45718 2.493816 6 51.2 57.62114  
## BLK 56.43697 1.314682 6 54.8 58.09242  
## BRN 56.27434 1.216659 6 54.8 57.69804  
## WHT 54.43201 1.747799 6 52.5 56.35577  
## WT/BLK 55.33300 1.378789 6 53.2 56.92203  
## WT/BR 54.94563 1.401873 6 53.6 56.26343  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.897606   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.43697 a  
## BRN 56.27434 ab  
## WT/BLK 55.33300 ab  
## WT/BR 54.94563 ab  
## BL/BR 54.45718 b  
## WHT 54.43201 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.129987   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.52638 0.8867312 18 54.78419 58.09242  
## AftLow 54.10000 1.5025469 18 51.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7313139   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.52638 a  
## AftLow 54.10000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.129987 24 55.31319 1.9218 3.12948  
##   
## $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 55.88103 1.52394709 3 54.78419 57.62114 55.01098 55.23777  
## BL/BR:AftLow 53.03333 2.67270150 3 51.20000 56.10000 51.50000 51.80000  
## BLK:AftHigh 57.40727 0.59428304 3 57.03155 58.09242 57.06470 57.09785  
## BLK:AftLow 55.46667 1.06926766 3 54.80000 56.70000 54.85000 54.90000  
## BRN:AftHigh 57.28200 0.36211221 3 57.03777 57.69804 57.07399 57.11020  
## BRN:AftLow 55.26667 0.72341781 3 54.80000 56.10000 54.85000 54.90000  
## WHT:AftHigh 55.96402 0.34032070 3 55.74134 56.35577 55.76815 55.79496  
## WHT:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WT/BLK:AftHigh 56.39933 0.69146711 3 55.61528 56.92203 56.13798 56.66068  
## WT/BLK:AftLow 54.26667 0.92915732 3 53.20000 54.90000 53.95000 54.70000  
## WT/BR:AftHigh 56.22460 0.05024671 3 56.16785 56.26343 56.20518 56.24252  
## WT/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## Q75  
## BL/BR:AftHigh 56.42946  
## BL/BR:AftLow 53.95000  
## BLK:AftHigh 57.59514  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.40412  
## BRN:AftLow 55.50000  
## WHT:AftHigh 56.07536  
## WHT:AftLow 53.10000  
## WT/BLK:AftHigh 56.79136  
## WT/BLK:AftLow 54.80000  
## WT/BR:AftHigh 56.25297  
## WT/BR:AftLow 53.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.40727 a  
## BRN:AftHigh 57.28200 ab  
## WT/BLK:AftHigh 56.39933 abc  
## WT/BR:AftHigh 56.22460 abc  
## WHT:AftHigh 55.96402 abcd  
## BL/BR:AftHigh 55.88103 abcd  
## BLK:AftLow 55.46667 abcd  
## BRN:AftLow 55.26667 abcd  
## WT/BLK:AftLow 54.26667 bcd  
## WT/BR:AftLow 53.66667 cd  
## BL/BR:AftLow 53.03333 d  
## WHT:AftLow 52.90000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT53 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 27.999 5.600 14.5240 1.354e-06 \*\*\*  
## THIregime 1 52.524 52.524 136.2287 2.215e-11 \*\*\*  
## Colour:THIregime 5 2.215 0.443 1.1492 0.3623   
## Residuals 24 9.253 0.386   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3855569   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.35687 1.741690 6 51.6 56.13217  
## BLK 56.54888 1.039458 6 55.2 57.63563  
## BRN 56.68535 1.242345 6 54.6 58.13469  
## WHT 54.84428 1.628643 6 52.6 56.48935  
## WT/BLK 54.93950 1.593067 6 53.2 56.63455  
## WT/BR 55.10579 1.396719 6 53.7 56.43069  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.108443   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 56.68535 a  
## BLK 56.54888 a  
## WT/BR 55.10579 b  
## WT/BLK 54.93950 b  
## WHT 54.84428 b  
## BL/BR 54.35687 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3855569   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.62134 0.7568682 18 55.03378 58.13469  
## AftLow 54.20556 1.3224186 18 51.60000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4271804   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.62134 a  
## AftLow 54.20556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3855569 24 55.41345 1.120544 1.828015  
##   
## $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 55.74707 0.61838408 3 55.03378 56.13217 55.55452 56.07526  
## BL/BR:AftLow 52.96667 1.18462371 3 51.60000 53.70000 52.60000 53.60000  
## BLK:AftHigh 57.46443 0.20776927 3 57.23327 57.63563 57.37883 57.52438  
## BLK:AftLow 55.63333 0.37859389 3 55.20000 55.90000 55.50000 55.80000  
## BRN:AftHigh 57.50403 0.69606810 3 56.75718 58.13469 57.18869 57.62021  
## BRN:AftLow 55.86667 1.16761866 3 54.60000 56.90000 55.35000 56.10000  
## WHT:AftHigh 56.25523 0.36814234 3 55.83089 56.48935 56.13817 56.44545  
## WHT:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## WT/BLK:AftHigh 56.37900 0.24116268 3 56.15540 56.63455 56.25123 56.34706  
## WT/BLK:AftLow 53.50000 0.26457513 3 53.20000 53.70000 53.40000 53.60000  
## WT/BR:AftHigh 56.37826 0.07905825 3 56.28732 56.43069 56.35204 56.41675  
## WT/BR:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## Q75  
## BL/BR:AftHigh 56.10371  
## BL/BR:AftLow 53.65000  
## BLK:AftHigh 57.58000  
## BLK:AftLow 55.85000  
## BRN:AftHigh 57.87745  
## BRN:AftLow 56.50000  
## WHT:AftHigh 56.46740  
## WHT:AftLow 53.85000  
## WT/BLK:AftHigh 56.49080  
## WT/BLK:AftLow 53.65000  
## WT/BR:AftHigh 56.42372  
## WT/BR:AftLow 53.90000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.50403 a  
## BLK:AftHigh 57.46443 a  
## WT/BLK:AftHigh 56.37900 ab  
## WT/BR:AftHigh 56.37826 ab  
## WHT:AftHigh 56.25523 ab  
## BRN:AftLow 55.86667 ab  
## BL/BR:AftHigh 55.74707 ab  
## BLK:AftLow 55.63333 bc  
## WT/BR:AftLow 53.83333 cd  
## WT/BLK:AftLow 53.50000 d  
## WHT:AftLow 53.43333 d  
## BL/BR:AftLow 52.96667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT54 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 35.900 7.180 8.9744 6.500e-05 \*\*\*  
## THIregime 1 41.656 41.656 52.0669 1.864e-07 \*\*\*  
## Colour:THIregime 5 3.972 0.794 0.9930 0.4428   
## Residuals 24 19.201 0.800   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8000515   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.33183 0.9637362 6 55.1 57.54404  
## BLK 55.50459 1.2962744 6 53.7 57.13566  
## BRN 56.08150 0.7542102 6 54.9 56.92551  
## WHT 53.60880 1.7361292 6 51.3 55.69949  
## WT/BLK 54.97637 1.4363489 6 53.6 56.37320  
## WT/BR 54.05107 2.1704175 6 51.4 56.91158  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.596718   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.33183 a  
## BRN 56.08150 a  
## BLK 55.50459 ab  
## WT/BLK 54.97637 abc  
## WT/BR 54.05107 bc  
## WHT 53.60880 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8000515   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.16805 0.9135623 18 54.51434 57.54404  
## AftLow 54.01667 1.6248982 18 51.30000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6153554   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.16805 a  
## AftLow 54.01667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8000515 24 55.09236 1.623557 2.633264  
##   
## $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 57.13034 0.38186761 3 56.79136 57.54404 56.92348 57.05561  
## BL/BR:AftLow 55.53333 0.51316014 3 55.10000 56.10000 55.25000 55.40000  
## BLK:AftHigh 56.40918 0.64495727 3 55.90401 57.13566 56.04594 56.18787  
## BLK:AftLow 54.60000 1.15325626 3 53.70000 55.90000 53.95000 54.20000  
## BRN:AftHigh 56.66299 0.37104243 3 56.23850 56.92551 56.53173 56.82496  
## BRN:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## WHT:AftHigh 54.98427 0.62949891 3 54.51434 55.69949 54.62667 54.73899  
## WHT:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## WT/BLK:AftHigh 56.28608 0.09178310 3 56.19025 56.37320 56.24252 56.29479  
## WT/BLK:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WT/BR:AftHigh 55.53546 1.19294839 3 54.79389 56.91158 54.84741 54.90092  
## WT/BR:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## Q75  
## BL/BR:AftHigh 57.29983  
## BL/BR:AftLow 55.75000  
## BLK:AftHigh 56.66176  
## BLK:AftLow 55.05000  
## BRN:AftHigh 56.87524  
## BRN:AftLow 55.80000  
## WHT:AftHigh 55.21924  
## WHT:AftLow 52.70000  
## WT/BLK:AftHigh 56.33399  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 55.90625  
## WT/BR:AftLow 53.15000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.13034 a  
## BRN:AftHigh 56.66299 a  
## BLK:AftHigh 56.40918 a  
## WT/BLK:AftHigh 56.28608 ab  
## WT/BR:AftHigh 55.53546 ab  
## BL/BR:AftLow 55.53333 ab  
## BRN:AftLow 55.50000 ab  
## WHT:AftHigh 54.98427 abc  
## BLK:AftLow 54.60000 abcd  
## WT/BLK:AftLow 53.66667 bcd  
## WT/BR:AftLow 52.56667 cd  
## WHT:AftLow 52.23333 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 12.979 2.596 12.2797 5.612e-06 \*\*\*  
## THIregime 1 50.516 50.516 238.9656 5.626e-14 \*\*\*  
## Colour:THIregime 5 0.712 0.142 0.6734 0.6475   
## Residuals 24 5.074 0.211   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2113959   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.76339 1.424569 6 54.3 57.13111  
## BLK 56.78058 1.364723 6 54.8 58.37563  
## BRN 56.51766 1.272215 6 54.7 57.82268  
## WHT 55.67778 1.544519 6 53.6 57.28139  
## WT/BLK 55.15336 1.450079 6 53.7 56.58228  
## WT/BR 56.68139 1.123238 6 55.2 57.80017  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8207624   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.78058 a  
## WT/BR 56.68139 a  
## BRN 56.51766 ab  
## BL/BR 55.76339 bc  
## WHT 55.67778 c  
## WT/BLK 55.15336 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2113959   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.28027 0.5513055 18 56.33399 58.37563  
## AftLow 54.91111 0.8943541 18 53.60000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3163117   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.28027 a  
## AftLow 54.91111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2113959 24 56.09569 0.8196317 1.353579  
##   
## $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 57.06011 0.07547919 3 56.98083 57.13111 57.02461 57.06839  
## BL/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## BLK:AftHigh 57.86116 0.49318331 3 57.39246 58.37563 57.60392 57.81537  
## BLK:AftLow 55.70000 0.95393920 3 54.80000 56.70000 55.20000 55.60000  
## BRN:AftHigh 57.60199 0.32508443 3 57.22868 57.82268 57.49165 57.75462  
## BRN:AftLow 55.43333 0.64291005 3 54.70000 55.90000 55.20000 55.70000  
## WHT:AftHigh 57.02223 0.35762593 3 56.61422 57.28139 56.89265 57.17108  
## WHT:AftLow 54.33333 0.64291005 3 53.60000 54.80000 54.10000 54.60000  
## WT/BLK:AftHigh 56.47338 0.12691855 3 56.33399 56.58228 56.41893 56.50387  
## WT/BLK:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## WT/BR:AftHigh 57.66277 0.23410654 3 57.39246 57.80017 57.59407 57.79569  
## WT/BR:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.09975  
## BL/BR:AftLow 54.55000  
## BLK:AftHigh 58.09550  
## BLK:AftLow 56.15000  
## BRN:AftHigh 57.78865  
## BRN:AftLow 55.80000  
## WHT:AftHigh 57.22623  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 56.54307  
## WT/BLK:AftLow 53.90000  
## WT/BR:AftHigh 57.79793  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.86116 a  
## WT/BR:AftHigh 57.66277 ab  
## BRN:AftHigh 57.60199 ab  
## BL/BR:AftHigh 57.06011 ab  
## WHT:AftHigh 57.02223 abc  
## WT/BLK:AftHigh 56.47338 bcd  
## BLK:AftLow 55.70000 cde  
## WT/BR:AftLow 55.70000 cde  
## BRN:AftLow 55.43333 def  
## BL/BR:AftLow 54.46667 efg  
## WHT:AftLow 54.33333 fg  
## WT/BLK:AftLow 53.83333 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT56 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 11.768 2.354 2.1965 0.08812 .   
## THIregime 1 54.909 54.909 51.2450 2.128e-07 \*\*\*  
## Colour:THIregime 5 1.281 0.256 0.2392 0.94118   
## Residuals 24 25.716 1.072   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.071509   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.13320 1.397256 6 53.1 56.67113  
## BLK 55.80556 1.558638 6 53.7 57.71063  
## BRN 55.92412 1.237305 6 54.6 57.10498  
## WHT 55.59596 1.410921 6 53.7 57.05424  
## WT/BLK 54.20277 2.371070 6 51.4 57.57541  
## WT/BR 55.28182 1.690011 6 52.8 57.42233  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.847852   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 55.92412 a  
## BLK 55.80556 a  
## WHT 55.59596 a  
## WT/BR 55.28182 a  
## BL/BR 55.13320 a  
## WT/BLK 54.20277 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.071509   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.55892 0.8170184 18 54.83123 57.71063  
## AftLow 54.08889 1.2699647 18 51.40000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7121394   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.55892 a  
## AftLow 54.08889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.071509 24 55.3239 1.871049 3.047428  
##   
## $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 56.29973 0.44170498 3 55.81129 56.67113 56.11402 56.41675  
## BL/BR:AftLow 53.96667 0.77674535 3 53.10000 54.60000 53.65000 54.20000  
## BLK:AftHigh 57.01111 0.61909093 3 56.53374 57.71063 56.66136 56.78898  
## BLK:AftLow 54.60000 1.15325626 3 53.70000 55.90000 53.95000 54.20000  
## BRN:AftHigh 57.04824 0.07988966 3 56.95688 57.10498 57.01987 57.08286  
## BRN:AftLow 54.80000 0.17320508 3 54.60000 54.90000 54.75000 54.90000  
## WHT:AftHigh 56.82526 0.31605602 3 56.46467 57.05424 56.71077 56.95688  
## WHT:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## WT/BLK:AftHigh 55.83888 1.51032096 3 54.83123 57.57541 54.97062 55.11000  
## WT/BLK:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## WT/BR:AftHigh 56.33030 0.98947333 3 55.49332 57.42233 55.78429 56.07526  
## WT/BR:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## Q75  
## BL/BR:AftHigh 56.54394  
## BL/BR:AftLow 54.40000  
## BLK:AftHigh 57.24980  
## BLK:AftLow 55.05000  
## BRN:AftHigh 57.09392  
## BRN:AftLow 54.90000  
## WHT:AftHigh 57.00556  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 56.34270  
## WT/BLK:AftLow 53.15000  
## WT/BR:AftHigh 56.74879  
## WT/BR:AftLow 54.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.04824 a  
## BLK:AftHigh 57.01111 ab  
## WHT:AftHigh 56.82526 ab  
## WT/BR:AftHigh 56.33030 ab  
## BL/BR:AftHigh 56.29973 ab  
## WT/BLK:AftHigh 55.83888 ab  
## BRN:AftLow 54.80000 abc  
## BLK:AftLow 54.60000 abc  
## WHT:AftLow 54.36667 abc  
## WT/BR:AftLow 54.23333 abc  
## BL/BR:AftLow 53.96667 bc  
## WT/BLK:AftLow 52.56667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT57 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 24.090 4.818 4.3076 0.006141 \*\*   
## THIregime 1 57.550 57.550 51.4538 2.057e-07 \*\*\*  
## Colour:THIregime 5 1.303 0.261 0.2330 0.944212   
## Residuals 24 26.844 1.118   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.118481   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.17655 1.545530 6 53.7 56.64761  
## BLK 56.89478 1.475949 6 54.8 58.61458  
## BRN 57.28821 1.870006 6 53.9 59.15570  
## WHT 56.39288 1.445258 6 54.7 57.90286  
## WT/BLK 56.87510 1.329644 6 55.2 58.25492  
## WT/BR 55.25866 2.284435 6 51.6 58.11379  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.88792   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.28821 a  
## BLK 56.89478 ab  
## WT/BLK 56.87510 ab  
## WHT 56.39288 ab  
## WT/BR 55.25866 b  
## BL/BR 55.17655 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.118481   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.57873 0.9149581 18 55.6327 59.1557  
## AftLow 55.05000 1.4951884 18 51.6000 57.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7275812   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.57873 a  
## AftLow 55.05000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.118481 24 56.31436 1.877998 3.113507  
##   
## $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 56.58644 0.07065845 3 56.50910 56.64761 56.55585 56.60260  
## BL/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## BLK:AftHigh 58.08956 0.50356098 3 57.61063 58.61458 57.82704 58.04346  
## BLK:AftLow 55.70000 0.95393920 3 54.80000 56.70000 55.20000 55.60000  
## BRN:AftHigh 58.24309 1.20149876 3 56.88182 59.15570 57.78678 58.69174  
## BRN:AftLow 56.33333 2.13619600 3 53.90000 57.90000 55.55000 57.20000  
## WHT:AftHigh 57.68577 0.21745091 3 57.46796 57.90286 57.57722 57.68648  
## WHT:AftLow 55.10000 0.40000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BLK:AftHigh 58.05019 0.25949217 3 57.75835 58.25492 57.94783 58.13731  
## WT/BLK:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 56.81732 1.24431674 3 55.63270 58.11379 56.16909 56.70548  
## WT/BR:AftLow 53.70000 2.05182845 3 51.60000 55.70000 52.70000 53.80000  
## Q75  
## BL/BR:AftHigh 56.62511  
## BL/BR:AftLow 53.80000  
## BLK:AftHigh 58.32902  
## BLK:AftLow 56.15000  
## BRN:AftHigh 58.92372  
## BRN:AftLow 57.55000  
## WHT:AftHigh 57.79467  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 58.19611  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 57.40963  
## WT/BR:AftLow 54.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.24309 a  
## BLK:AftHigh 58.08956 ab  
## WT/BLK:AftHigh 58.05019 ab  
## WHT:AftHigh 57.68577 ab  
## WT/BR:AftHigh 56.81732 abc  
## BL/BR:AftHigh 56.58644 abcd  
## BRN:AftLow 56.33333 abcd  
## BLK:AftLow 55.70000 abcd  
## WT/BLK:AftLow 55.70000 abcd  
## WHT:AftLow 55.10000 bcd  
## BL/BR:AftLow 53.76667 cd  
## WT/BR:AftLow 53.70000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT58 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 22.591 4.518 8.3923 0.0001057 \*\*\*  
## THIregime 1 49.964 49.964 92.8064 1.014e-09 \*\*\*  
## Colour:THIregime 5 1.322 0.264 0.4910 0.7796722   
## Residuals 24 12.921 0.538   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5383675   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.80958 1.545913 6 53.7 57.38084  
## BLK 57.53602 1.138482 6 56.1 58.86847  
## BRN 55.32458 1.701599 6 53.1 57.26380  
## WHT 56.77510 1.146403 6 55.3 57.96128  
## WT/BLK 55.51089 1.872168 6 52.8 57.83676  
## WT/BR 56.74569 1.200250 6 55.2 58.09437  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.309811   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.53602 a  
## WHT 56.77510 ab  
## WT/BR 56.74569 ab  
## BL/BR 55.80958 bc  
## WT/BLK 55.51089 bc  
## BRN 55.32458 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5383675   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.46173 0.7671126 18 55.84178 58.86847  
## AftLow 55.10556 1.2562653 18 52.80000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.504785   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.46173 a  
## AftLow 55.10556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5383675 24 56.28364 1.303639 2.160105  
##   
## $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 57.15250 0.3478551 3 56.75215 57.38084 57.03833 57.32451  
## BL/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## BLK:AftHigh 58.47203 0.3492420 3 58.20977 58.86847 58.27382 58.33787  
## BLK:AftLow 56.60000 0.7000000 3 56.10000 57.40000 56.20000 56.30000  
## BRN:AftHigh 56.78248 0.4677294 3 56.32964 57.26380 56.54183 56.75402  
## BRN:AftLow 53.86667 0.8020806 3 53.10000 54.70000 53.45000 53.80000  
## WHT:AftHigh 57.78352 0.2479541 3 57.50027 57.96128 57.69465 57.88903  
## WHT:AftLow 55.76667 0.4163332 3 55.30000 56.10000 55.60000 55.90000  
## WT/BLK:AftHigh 56.78845 1.0013618 3 55.84178 57.83676 56.26430 56.68682  
## WT/BLK:AftLow 54.23333 1.6921387 3 52.80000 56.10000 53.30000 53.80000  
## WT/BR:AftHigh 57.79137 0.3333560 3 57.43428 58.09437 57.63987 57.84547  
## WT/BR:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## Q75  
## BL/BR:AftHigh 57.35268  
## BL/BR:AftLow 54.85000  
## BLK:AftHigh 58.60317  
## BLK:AftLow 56.85000  
## BRN:AftHigh 57.00891  
## BRN:AftLow 54.25000  
## WHT:AftHigh 57.92515  
## WHT:AftLow 56.00000  
## WT/BLK:AftHigh 57.26179  
## WT/BLK:AftLow 54.95000  
## WT/BR:AftHigh 57.96992  
## WT/BR:AftLow 55.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.47203 a  
## WT/BR:AftHigh 57.79137 ab  
## WHT:AftHigh 57.78352 ab  
## BL/BR:AftHigh 57.15250 ab  
## WT/BLK:AftHigh 56.78845 ab  
## BRN:AftHigh 56.78248 ab  
## BLK:AftLow 56.60000 abc  
## WHT:AftLow 55.76667 bcd  
## WT/BR:AftLow 55.70000 bcd  
## BL/BR:AftLow 54.46667 cd  
## WT/BLK:AftLow 54.23333 d  
## BRN:AftLow 53.86667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT59 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 39.877 7.975 7.2023 0.0003044 \*\*\*  
## THIregime 1 48.380 48.380 43.6911 7.758e-07 \*\*\*  
## Colour:THIregime 5 2.745 0.549 0.4958 0.7762179   
## Residuals 24 26.576 1.107   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.107329   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.73930 1.5291963 6 53.6 57.57541  
## BLK 56.61899 1.3154652 6 54.9 58.00069  
## BRN 58.30423 0.8054651 6 57.1 59.27418  
## WHT 55.54125 2.0063935 6 52.7 57.96162  
## WT/BLK 55.08814 2.1834553 6 51.6 57.94130  
## WT/BR 55.79702 1.4245969 6 53.6 57.53434  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.878484   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 58.30423 a  
## BLK 56.61899 ab  
## WT/BR 55.79702 b  
## BL/BR 55.73930 b  
## WHT 55.54125 b  
## WT/BLK 55.08814 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.107329   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.34076 1.062911 18 55.1797 59.27418  
## AftLow 55.02222 1.714833 18 51.6000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7239447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.34076 a  
## AftLow 55.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.107329 24 56.18149 1.873031 3.097945  
##   
## $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 56.94526 0.5828576 3 56.42547 57.57541 56.63019 56.83491  
## BL/BR:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## BLK:AftHigh 57.77131 0.2814975 3 57.45718 58.00069 57.65662 57.85607  
## BLK:AftLow 55.46667 0.5131601 3 54.90000 55.90000 55.25000 55.60000  
## BRN:AftHigh 58.94180 0.3730081 3 58.53838 59.27418 58.77560 59.01283  
## BRN:AftLow 57.66667 0.5131601 3 57.10000 58.10000 57.45000 57.80000  
## WHT:AftHigh 57.04917 0.8362183 3 56.31939 57.96162 56.59294 56.86649  
## WHT:AftLow 54.03333 1.5947832 3 52.70000 55.80000 53.15000 53.60000  
## WT/BLK:AftHigh 56.47628 1.3884818 3 55.17970 57.94130 55.74378 56.30786  
## WT/BLK:AftLow 53.70000 2.0518285 3 51.60000 55.70000 52.70000 53.80000  
## WT/BR:AftHigh 56.86072 0.6826700 3 56.16934 57.53434 56.52391 56.87847  
## WT/BR:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## Q75  
## BL/BR:AftHigh 57.20516  
## BL/BR:AftLow 55.00000  
## BLK:AftHigh 57.92838  
## BLK:AftLow 55.75000  
## BRN:AftHigh 59.14351  
## BRN:AftLow 57.95000  
## WHT:AftHigh 57.41406  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 57.12458  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 57.20640  
## WT/BR:AftLow 55.30000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.94180 a  
## BLK:AftHigh 57.77131 ab  
## BRN:AftLow 57.66667 ab  
## WHT:AftHigh 57.04917 abc  
## BL/BR:AftHigh 56.94526 abc  
## WT/BR:AftHigh 56.86072 abc  
## WT/BLK:AftHigh 56.47628 abcd  
## BLK:AftLow 55.46667 bcd  
## WT/BR:AftLow 54.73333 bcd  
## BL/BR:AftLow 54.53333 cd  
## WHT:AftLow 54.03333 cd  
## WT/BLK:AftLow 53.70000 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 18.250 3.650 3.9466 0.009401 \*\*   
## THIregime 1 54.316 54.316 58.7281 6.696e-08 \*\*\*  
## Colour:THIregime 5 1.376 0.275 0.2976 0.909392   
## Residuals 24 22.197 0.925   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9248652   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.77088 1.371626 6 54.2 57.10498  
## BLK 57.14169 1.396505 6 54.9 58.74401  
## BRN 56.55440 1.421541 6 54.8 58.33332  
## WHT 55.63585 1.639841 6 53.2 57.33729  
## WT/BLK 56.78943 1.254308 6 55.2 58.24185  
## WT/BR 55.11099 2.337308 6 51.6 58.13469  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.716755   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.14169 a  
## WT/BLK 56.78943 ab  
## BRN 56.55440 ab  
## BL/BR 55.77088 ab  
## WHT 55.63585 ab  
## WT/BR 55.11099 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9248652   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.39552 0.7941221 18 55.60657 58.74401  
## AftLow 54.93889 1.3526179 18 51.60000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6616164   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.39552 a  
## AftLow 54.93889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9248652 24 56.16721 1.712208 2.831227  
##   
## $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 57.00842 0.1597518 3 56.82402 57.10498 56.96014 57.09626  
## BL/BR:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## BLK:AftHigh 58.15006 0.6179441 3 57.51064 58.74401 57.85308 58.19552  
## BLK:AftLow 56.13333 1.2013881 3 54.90000 57.30000 55.55000 56.20000  
## BRN:AftHigh 57.64213 0.5992761 3 57.26782 58.33332 57.29654 57.32526  
## BRN:AftLow 55.46667 1.0692677 3 54.80000 56.70000 54.85000 54.90000  
## WHT:AftHigh 57.00504 0.4851250 3 56.44833 57.33729 56.83892 57.22950  
## WHT:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## WT/BLK:AftHigh 57.87886 0.4032931 3 57.44473 58.24185 57.69737 57.95001  
## WT/BLK:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BR:AftHigh 56.68864 1.3027728 3 55.60657 58.13469 55.96561 56.32466  
## WT/BR:AftLow 53.53333 2.1197484 3 51.60000 55.80000 52.40000 53.20000  
## Q75  
## BL/BR:AftHigh 57.10062  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 58.46977  
## BLK:AftLow 56.75000  
## BRN:AftHigh 57.82929  
## BRN:AftLow 55.80000  
## WHT:AftHigh 57.28339  
## WHT:AftLow 54.80000  
## WT/BLK:AftHigh 58.09593  
## WT/BLK:AftLow 55.95000  
## WT/BR:AftHigh 57.22968  
## WT/BR:AftLow 54.50000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.15006 a  
## WT/BLK:AftHigh 57.87886 a  
## BRN:AftHigh 57.64213 a  
## BL/BR:AftHigh 57.00842 ab  
## WHT:AftHigh 57.00504 ab  
## WT/BR:AftHigh 56.68864 ab  
## BLK:AftLow 56.13333 abc  
## WT/BLK:AftLow 55.70000 abc  
## BRN:AftLow 55.46667 abc  
## BL/BR:AftLow 54.53333 bc  
## WHT:AftLow 54.26667 bc  
## WT/BR:AftLow 53.53333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT61 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 12.239 2.448 6.9558 0.0003833 \*\*\*  
## THIregime 1 48.541 48.541 137.9430 1.947e-11 \*\*\*  
## Colour:THIregime 5 1.156 0.231 0.6568 0.6593785   
## Residuals 24 8.445 0.352   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3518952   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.45161 1.400721 6 54.3 57.98485  
## BLK 56.71064 1.122256 6 55.4 57.80315  
## BRN 56.70648 1.206952 6 55.2 57.94652  
## WHT 55.05143 1.710099 6 53.2 56.69988  
## WT/BLK 55.80735 1.454515 6 53.6 57.65381  
## WT/BR 56.17299 1.382121 6 54.3 57.82555  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.058951   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.71064 a  
## BRN 56.70648 a  
## BL/BR 56.45161 a  
## WT/BR 56.17299 a  
## WT/BLK 55.80735 ab  
## WHT 55.05143 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3518952   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.31128 0.5862067 18 56.08571 57.98485  
## AftLow 54.98889 0.9700751 18 53.20000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4081067   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.31128 a  
## AftLow 54.98889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3518952 24 56.15008 1.056468 1.746394  
##   
## $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 57.56989 0.5385969 3 56.96123 57.98485 57.36240 57.76358  
## BL/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## BLK:AftHigh 57.72129 0.1201457 3 57.58336 57.80315 57.68036 57.77736  
## BLK:AftLow 55.70000 0.2645751 3 55.40000 55.90000 55.60000 55.80000  
## BRN:AftHigh 57.77962 0.2087648 3 57.54554 57.94652 57.69617 57.84681  
## BRN:AftLow 55.63333 0.3785939 3 55.20000 55.90000 55.50000 55.80000  
## WHT:AftHigh 56.60286 0.1424628 3 56.43930 56.69988 56.55435 56.66939  
## WHT:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## WT/BLK:AftHigh 56.88138 0.7843081 3 56.08571 57.65381 56.49516 56.90461  
## WT/BLK:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## WT/BR:AftHigh 57.31264 0.4752583 3 56.88718 57.82555 57.05619 57.22520  
## WT/BR:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## Q75  
## BL/BR:AftHigh 57.87422  
## BL/BR:AftLow 55.85000  
## BLK:AftHigh 57.79026  
## BLK:AftLow 55.85000  
## BRN:AftHigh 57.89666  
## BRN:AftLow 55.85000  
## WHT:AftHigh 56.68464  
## WHT:AftLow 53.65000  
## WT/BLK:AftHigh 57.27921  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.52538  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 57.77962 a  
## BLK:AftHigh 57.72129 a  
## BL/BR:AftHigh 57.56989 a  
## WT/BR:AftHigh 57.31264 ab  
## WT/BLK:AftHigh 56.88138 abc  
## WHT:AftHigh 56.60286 abcd  
## BLK:AftLow 55.70000 bcde  
## BRN:AftLow 55.63333 bcde  
## BL/BR:AftLow 55.33333 cde  
## WT/BR:AftLow 55.03333 def  
## WT/BLK:AftLow 54.73333 ef  
## WHT:AftLow 53.50000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT62 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 24.341 4.868 5.6826 0.001353 \*\*   
## THIregime 1 52.549 52.549 61.3386 4.586e-08 \*\*\*  
## Colour:THIregime 5 1.862 0.372 0.4348 0.819783   
## Residuals 24 20.561 0.857   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8566955   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.76950 1.143365 6 55.3 57.95581  
## BLK 57.28753 1.235358 6 55.7 58.78135  
## BRN 55.91896 1.664288 6 53.7 57.93258  
## WHT 55.17820 1.656678 6 53.6 56.74235  
## WT/BLK 54.98593 2.281950 6 51.6 58.09811  
## WT/BR 56.37558 1.199671 6 54.6 57.65381  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.652275   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.28753 a  
## BL/BR 56.76950 ab  
## WT/BR 56.37558 abc  
## BRN 55.91896 abc  
## WHT 55.17820 bc  
## WT/BLK 54.98593 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8566955   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.29412 0.8627345 18 55.24939 58.78135  
## AftLow 54.87778 1.4165225 18 51.60000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6367666   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.29412 a  
## AftLow 54.87778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8566955 24 56.08595 1.650286 2.724888  
##   
## $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 57.77234 0.27900239 3 57.45126 57.95581 57.68060 57.90993  
## BL/BR:AftLow 55.76667 0.41633320 3 55.30000 56.10000 55.60000 55.90000  
## BLK:AftHigh 58.24173 0.46952191 3 57.92652 58.78135 57.97192 58.01732  
## BLK:AftLow 56.33333 0.92915732 3 55.70000 57.40000 55.80000 55.90000  
## BRN:AftHigh 57.23792 0.61293264 3 56.77326 57.93258 56.89058 57.00790  
## BRN:AftLow 54.60000 1.15325626 3 53.70000 55.90000 53.95000 54.20000  
## WHT:AftHigh 56.68973 0.06292526 3 56.62003 56.74235 56.66341 56.70680  
## WHT:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WT/BLK:AftHigh 56.43853 1.48147649 3 55.24939 58.09811 55.60875 55.96810  
## WT/BLK:AftLow 53.53333 2.11974841 3 51.60000 55.80000 52.40000 53.20000  
## WT/BR:AftHigh 57.38450 0.31775420 3 57.03404 57.65381 57.24984 57.46564  
## WT/BR:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## Q75  
## BL/BR:AftHigh 57.93287  
## BL/BR:AftLow 56.00000  
## BLK:AftHigh 58.39934  
## BLK:AftLow 56.65000  
## BRN:AftHigh 57.47024  
## BRN:AftLow 55.05000  
## WHT:AftHigh 56.72458  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 57.03310  
## WT/BLK:AftLow 54.50000  
## WT/BR:AftHigh 57.55972  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.24173 a  
## BL/BR:AftHigh 57.77234 ab  
## WT/BR:AftHigh 57.38450 ab  
## BRN:AftHigh 57.23792 abc  
## WHT:AftHigh 56.68973 abc  
## WT/BLK:AftHigh 56.43853 abc  
## BLK:AftLow 56.33333 abcd  
## BL/BR:AftLow 55.76667 abcde  
## WT/BR:AftLow 55.36667 bcde  
## BRN:AftLow 54.60000 cde  
## WHT:AftLow 53.66667 de  
## WT/BLK:AftLow 53.53333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT63 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 50.466 10.093 7.8860 0.000164 \*\*\*  
## THIregime 1 49.724 49.724 38.8503 1.927e-06 \*\*\*  
## Colour:THIregime 5 3.322 0.664 0.5191 0.759247   
## Residuals 24 30.717 1.280   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.279896   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.24588 1.7581622 6 52.7 57.42382  
## BLK 58.22080 0.7424667 6 57.4 58.99292  
## BRN 56.70134 1.2879578 6 54.8 58.20063  
## WHT 55.26134 1.5668942 6 53.7 56.74889  
## WT/BLK 56.18241 1.3972901 6 54.3 57.88903  
## WT/BR 54.63979 2.6540580 6 51.2 58.12424  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.019558   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.22080 a  
## BRN 56.70134 ab  
## WT/BLK 56.18241 bc  
## WHT 55.26134 bc  
## BL/BR 55.24588 bc  
## WT/BR 54.63979 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.279896   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.21718 1.148041 18 55.02538 58.99292  
## AftLow 54.86667 1.911267 18 51.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7783131   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.21718 a  
## AftLow 54.86667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.279896 24 56.04193 2.018711 3.330602  
##   
## $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 56.45842 0.87960404 3 55.70240 57.42382 55.97573 56.24905  
## BL/BR:AftLow 54.03333 1.59478316 3 52.70000 55.80000 53.15000 53.60000  
## BLK:AftHigh 58.87493 0.10554505 3 58.78949 58.99292 58.81594 58.84238  
## BLK:AftLow 57.56667 0.28867513 3 57.40000 57.90000 57.40000 57.40000  
## BRN:AftHigh 57.70267 0.47860978 3 57.24610 58.20063 57.45369 57.66128  
## BRN:AftLow 55.70000 0.95393920 3 54.80000 56.70000 55.20000 55.60000  
## WHT:AftHigh 56.68934 0.08350366 3 56.59389 56.74889 56.65957 56.72525  
## WHT:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## WT/BLK:AftHigh 57.33148 0.51634541 3 56.86976 57.88903 57.05271 57.23565  
## WT/BLK:AftLow 55.03333 0.80829038 3 54.30000 55.90000 54.60000 54.90000  
## WT/BR:AftHigh 56.24625 1.65063131 3 55.02538 58.12424 55.30726 55.58915  
## WT/BR:AftLow 53.03333 2.67270150 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 56.83644  
## BL/BR:AftLow 54.70000  
## BLK:AftHigh 58.91765  
## BLK:AftLow 57.65000  
## BRN:AftHigh 57.93096  
## BRN:AftLow 56.15000  
## WHT:AftHigh 56.73707  
## WHT:AftLow 53.90000  
## WT/BLK:AftHigh 57.56234  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 56.85669  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.87493 a  
## BRN:AftHigh 57.70267 ab  
## BLK:AftLow 57.56667 ab  
## WT/BLK:AftHigh 57.33148 abc  
## WHT:AftHigh 56.68934 abcd  
## BL/BR:AftHigh 56.45842 abcd  
## WT/BR:AftHigh 56.24625 abcde  
## BRN:AftLow 55.70000 abcde  
## WT/BLK:AftLow 55.03333 bcde  
## BL/BR:AftLow 54.03333 cde  
## WHT:AftLow 53.83333 de  
## WT/BR:AftLow 53.03333 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 29.180 5.836 6.7001 0.0004891 \*\*\*  
## THIregime 1 61.948 61.948 71.1197 1.225e-08 \*\*\*  
## Colour:THIregime 5 1.850 0.370 0.4247 0.8268314   
## Residuals 24 20.905 0.871   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.871032   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.47589 1.485761 6 53.2 57.05271  
## BLK 56.50652 1.163876 6 54.9 57.69244  
## BRN 55.79908 1.554211 6 53.7 57.70956  
## WHT 54.22596 2.297129 6 51.4 57.14418  
## WT/BLK 56.59736 1.433257 6 54.6 58.12424  
## WT/BR 54.53254 1.905713 6 51.6 56.47774  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.666043   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.59736 a  
## BLK 56.50652 a  
## BRN 55.79908 ab  
## BL/BR 55.47589 ab  
## WT/BR 54.53254 b  
## WHT 54.22596 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.871032   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.83467 0.8949777 18 55.24068 58.12424  
## AftLow 54.21111 1.5013284 18 51.40000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6420725   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.83467 a  
## AftLow 54.21111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.871032 24 55.52289 1.680912 2.747594  
##   
## $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 56.68512 0.5183525 3 56.09224 57.05271 56.50133 56.91041  
## BL/BR:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## BLK:AftHigh 57.51305 0.2779408 3 57.19288 57.69244 57.42335 57.65381  
## BLK:AftLow 55.50000 0.5196152 3 54.90000 55.80000 55.35000 55.80000  
## BRN:AftHigh 56.99815 0.6289578 3 56.51593 57.70956 56.64244 56.76895  
## BRN:AftLow 54.60000 1.1532563 3 53.70000 55.90000 53.95000 54.20000  
## WHT:AftHigh 55.88526 1.0903626 3 55.24068 57.14418 55.25580 55.27091  
## WHT:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## WT/BLK:AftHigh 57.82804 0.3852882 3 57.39246 58.12424 57.67995 57.96743  
## WT/BLK:AftLow 55.36667 0.6658328 3 54.60000 55.80000 55.15000 55.70000  
## WT/BR:AftHigh 56.09840 0.5658483 3 55.44802 56.47774 55.90874 56.36946  
## WT/BR:AftLow 52.96667 1.1846237 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 56.98156  
## BL/BR:AftLow 54.80000  
## BLK:AftHigh 57.67313  
## BLK:AftLow 55.80000  
## BRN:AftHigh 57.23926  
## BRN:AftLow 55.05000  
## WHT:AftHigh 56.20755  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 58.04584  
## WT/BLK:AftLow 55.75000  
## WT/BR:AftHigh 56.42360  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 57.82804 a  
## BLK:AftHigh 57.51305 a  
## BRN:AftHigh 56.99815 ab  
## BL/BR:AftHigh 56.68512 ab  
## WT/BR:AftHigh 56.09840 ab  
## WHT:AftHigh 55.88526 ab  
## BLK:AftLow 55.50000 abc  
## WT/BLK:AftLow 55.36667 abc  
## BRN:AftLow 54.60000 bcd  
## BL/BR:AftLow 54.26667 bcd  
## WT/BR:AftLow 52.96667 cd  
## WHT:AftLow 52.56667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT65 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 55.293 11.059 2.9666 0.0318240 \*   
## THIregime 1 70.716 70.716 18.9702 0.0002139 \*\*\*  
## Colour:THIregime 5 3.121 0.624 0.1674 0.9721432   
## Residuals 24 89.466 3.728   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.727746   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.40463 2.097038 6 53.2 57.52967  
## BLK 57.89014 1.455512 6 55.9 59.69461  
## BRN 57.03851 1.620172 6 54.8 58.92437  
## WHT 57.01691 1.479845 6 55.2 58.55873  
## WT/BLK 59.56518 4.231276 6 54.8 64.70000  
## WT/BR 57.19393 1.850925 6 55.1 59.05017  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.446612   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 59.56518 a  
## BLK 57.89014 ab  
## WT/BR 57.19393 ab  
## BRN 57.03851 ab  
## WHT 57.01691 ab  
## BL/BR 55.40463 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.727746   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.7531 1.596965 18 57.13111 64.60572  
## AftLow 55.9500 2.479623 18 53.20000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.328282   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.7531 a  
## AftLow 55.9500 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.727746 24 57.35155 3.366495 5.684059  
##   
## $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 57.30926 0.2026109 3 57.13111 57.52967 57.19906 57.26701  
## BL/BR:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## BLK:AftHigh 58.98029 0.6332862 3 58.48764 59.69461 58.62312 58.75861  
## BLK:AftLow 56.80000 1.1532563 3 55.90000 58.10000 56.15000 56.40000  
## BRN:AftHigh 58.37701 0.5268750 3 57.87334 58.92437 58.10333 58.33332  
## BRN:AftLow 55.70000 0.9539392 3 54.80000 56.70000 55.20000 55.60000  
## WHT:AftHigh 58.33381 0.2492631 3 58.06582 58.55873 58.22135 58.37688  
## WHT:AftLow 55.70000 0.4582576 3 55.20000 56.10000 55.50000 55.80000  
## WT/BLK:AftHigh 60.66369 3.4199006 3 58.49013 64.60572 58.69268 58.89522  
## WT/BLK:AftLow 58.46667 5.4261711 3 54.80000 64.70000 55.35000 55.90000  
## WT/BR:AftHigh 58.85453 0.1695091 3 58.75148 59.05017 58.75671 58.76193  
## WT/BR:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.39834  
## BL/BR:AftLow 53.65000  
## BLK:AftHigh 59.22661  
## BLK:AftLow 57.25000  
## BRN:AftHigh 58.62885  
## BRN:AftLow 56.15000  
## WHT:AftHigh 58.46781  
## WHT:AftLow 55.95000  
## WT/BLK:AftHigh 61.75047  
## WT/BLK:AftLow 60.30000  
## WT/BR:AftHigh 58.90605  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.66369 a  
## BLK:AftHigh 58.98029 ab  
## WT/BR:AftHigh 58.85453 ab  
## WT/BLK:AftLow 58.46667 ab  
## BRN:AftHigh 58.37701 ab  
## WHT:AftHigh 58.33381 ab  
## BL/BR:AftHigh 57.30926 ab  
## BLK:AftLow 56.80000 ab  
## BRN:AftLow 55.70000 ab  
## WHT:AftLow 55.70000 ab  
## WT/BR:AftLow 55.53333 ab  
## BL/BR:AftLow 53.50000 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT66 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 20.800 4.160 7.5367 0.0002241 \*\*\*  
## THIregime 1 54.192 54.192 98.1785 5.88e-10 \*\*\*  
## Colour:THIregime 5 1.355 0.271 0.4910 0.7796387   
## Residuals 24 13.247 0.552   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5519742   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.08892 1.559130 6 53.6 56.57574  
## BLK 56.50834 1.513100 6 54.2 58.04243  
## BRN 57.50618 1.107540 6 56.1 58.79169  
## WHT 55.68210 1.995856 6 52.8 58.10391  
## WT/BLK 56.21713 1.346563 6 54.2 57.86289  
## WT/BR 55.75886 1.419591 6 54.3 57.12240  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.32626   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BRN 57.50618 a  
## BLK 56.50834 ab  
## WT/BLK 56.21713 abc  
## WT/BR 55.75886 bc  
## WHT 55.68210 bc  
## BL/BR 55.08892 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5519742   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.35384 0.7539304 18 56.34706 58.79169  
## AftLow 54.90000 1.2304949 18 52.80000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5111242   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.35384 a  
## AftLow 54.90000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5519742 24 56.12692 1.323696 2.187232  
##   
## $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 56.51118 0.07382396 3 56.43069 56.57574 56.47890 56.52710  
## BL/BR:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## BLK:AftHigh 57.75001 0.49507175 3 57.17840 58.04243 57.60380 58.02920  
## BLK:AftLow 55.26667 0.92376043 3 54.20000 55.80000 55.00000 55.80000  
## BRN:AftHigh 58.41235 0.33637900 3 58.15038 58.79169 58.22268 58.29499  
## BRN:AftLow 56.60000 0.70000000 3 56.10000 57.40000 56.20000 56.30000  
## WHT:AftHigh 57.13087 0.89358314 3 56.34706 58.10391 56.64435 56.94163  
## WHT:AftLow 54.23333 1.69213869 3 52.80000 56.10000 53.30000 53.80000  
## WT/BLK:AftHigh 57.26759 0.67773930 3 56.53001 57.86289 56.96994 57.40988  
## WT/BLK:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## WT/BR:AftHigh 57.05105 0.07419631 3 56.97430 57.12240 57.01537 57.05644  
## WT/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 56.55142  
## BL/BR:AftLow 53.70000  
## BLK:AftHigh 58.03581  
## BLK:AftLow 55.80000  
## BRN:AftHigh 58.54334  
## BRN:AftLow 56.85000  
## WHT:AftHigh 57.52277  
## WHT:AftLow 54.95000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.65000  
## WT/BR:AftHigh 57.08942  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BRN:AftHigh 58.41235 a  
## BLK:AftHigh 57.75001 a  
## WT/BLK:AftHigh 57.26759 ab  
## WHT:AftHigh 57.13087 ab  
## WT/BR:AftHigh 57.05105 ab  
## BRN:AftLow 56.60000 abc  
## BL/BR:AftHigh 56.51118 abc  
## BLK:AftLow 55.26667 bcd  
## WT/BLK:AftLow 55.16667 bcd  
## WT/BR:AftLow 54.46667 cd  
## WHT:AftLow 54.23333 d  
## BL/BR:AftLow 53.66667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT67 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 23.376 4.675 4.9620 0.002928 \*\*   
## THIregime 1 52.458 52.458 55.6751 1.059e-07 \*\*\*  
## Colour:THIregime 5 1.692 0.338 0.3591 0.871283   
## Residuals 24 22.613 0.942   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9422128   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.19987 1.499866 6 53.7 56.63455  
## BLK 57.37156 1.475295 6 54.7 58.83611  
## BRN 56.47013 1.162359 6 54.9 57.70608  
## WHT 55.13123 2.154617 6 51.6 57.67668  
## WT/BLK 56.02799 1.536508 6 53.8 57.88903  
## WT/BR 55.34201 1.603774 6 53.1 57.04150  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.732781   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.37156 a  
## BRN 56.47013 ab  
## WT/BLK 56.02799 ab  
## WT/BR 55.34201 b  
## BL/BR 55.19987 b  
## WHT 55.13123 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9422128   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.13092 0.8216228 18 55.44002 58.83611  
## AftLow 54.71667 1.4593512 18 51.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6677925   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.13092 a  
## AftLow 54.71667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9422128 24 55.9238 1.735713 2.857656  
##   
## $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 56.56640 0.09176718 3 56.46205 56.63455 56.53233 56.60260  
## BL/BR:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## BLK:AftHigh 58.20978 0.83068941 3 57.26747 58.83611 57.89662 58.52577  
## BLK:AftLow 56.53333 1.62583312 3 54.70000 57.80000 55.90000 57.10000  
## BRN:AftHigh 57.47359 0.30587004 3 57.12709 57.70608 57.35735 57.58760  
## BRN:AftLow 55.46667 0.51316014 3 54.90000 55.90000 55.25000 55.60000  
## WHT:AftHigh 56.56245 1.11835076 3 55.44002 57.67668 56.00534 56.57066  
## WHT:AftLow 53.70000 2.05182845 3 51.60000 55.70000 52.70000 53.80000  
## WT/BLK:AftHigh 57.25598 0.61504202 3 56.66068 57.88903 56.93945 57.21823  
## WT/BLK:AftLow 54.80000 1.00000000 3 53.80000 55.80000 54.30000 54.80000  
## WT/BR:AftHigh 56.71735 0.39014472 3 56.28434 57.04150 56.55527 56.82620  
## WT/BR:AftLow 53.96667 0.77674535 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 56.61857  
## BL/BR:AftLow 53.90000  
## BLK:AftHigh 58.68094  
## BLK:AftLow 57.45000  
## BRN:AftHigh 57.64684  
## BRN:AftLow 55.75000  
## WHT:AftHigh 57.12367  
## WHT:AftLow 54.75000  
## WT/BLK:AftHigh 57.55363  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 56.93385  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.20978 a  
## BRN:AftHigh 57.47359 ab  
## WT/BLK:AftHigh 57.25598 ab  
## WT/BR:AftHigh 56.71735 abc  
## BL/BR:AftHigh 56.56640 abcd  
## WHT:AftHigh 56.56245 abcd  
## BLK:AftLow 56.53333 abcde  
## BRN:AftLow 55.46667 abcde  
## WT/BLK:AftLow 54.80000 bcde  
## WT/BR:AftLow 53.96667 cde  
## BL/BR:AftLow 53.83333 de  
## WHT:AftLow 53.70000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT68 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 23.722 4.744 7.7118 0.0001915 \*\*\*  
## THIregime 1 51.462 51.462 83.6480 2.728e-09 \*\*\*  
## Colour:THIregime 5 2.233 0.447 0.7260 0.6106742   
## Residuals 24 14.765 0.615   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6152173   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 54.10300 2.2021072 6 51.4 56.95470  
## BLK 55.53452 1.2573163 6 54.2 56.82937  
## BRN 54.34762 1.7170860 6 51.6 56.08571  
## WHT 56.44341 0.8860097 6 55.2 57.46506  
## WT/BLK 55.79504 1.2021147 6 54.6 56.97430  
## WT/BR 55.08341 1.4434088 6 53.7 56.45160  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.400179   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WHT 56.44341 a  
## WT/BLK 55.79504 a  
## BLK 55.53452 ab  
## WT/BR 55.08341 abc  
## BRN 54.34762 bc  
## BL/BR 54.10300 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6152173   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.41345 0.7580732 18 54.91835 57.46506  
## AftLow 54.02222 1.3493160 18 51.40000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5396117   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.41345 a  
## AftLow 54.02222 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6152173 24 55.21784 1.420479 2.309137  
##   
## $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 55.63933 1.13969016 3 54.94622 56.95470 54.98165 55.01708  
## BL/BR:AftLow 52.56667 1.93476958 3 51.40000 54.80000 51.45000 51.50000  
## BLK:AftHigh 56.66904 0.14387970 3 56.55116 56.82937 56.58888 56.62659  
## BLK:AftLow 54.40000 0.26457513 3 54.20000 54.70000 54.25000 54.30000  
## BRN:AftHigh 55.69525 0.67281984 3 54.91835 56.08571 55.50002 56.08169  
## BRN:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WHT:AftHigh 57.18682 0.30748514 3 56.85669 57.46506 57.04771 57.23872  
## WHT:AftLow 55.70000 0.45825757 3 55.20000 56.10000 55.50000 55.80000  
## WT/BLK:AftHigh 56.89009 0.07306037 3 56.84363 56.97430 56.84798 56.85234  
## WT/BLK:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## WT/BR:AftHigh 56.40016 0.06144134 3 56.33213 56.45160 56.37444 56.41675  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 55.98589  
## BL/BR:AftLow 53.15000  
## BLK:AftHigh 56.72798  
## BLK:AftLow 54.50000  
## BRN:AftHigh 56.08370  
## BRN:AftLow 53.70000  
## WHT:AftHigh 57.35189  
## WHT:AftLow 55.95000  
## WT/BLK:AftHigh 56.91332  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 56.43418  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WHT:AftHigh 57.18682 a  
## WT/BLK:AftHigh 56.89009 ab  
## BLK:AftHigh 56.66904 abc  
## WT/BR:AftHigh 56.40016 abc  
## WHT:AftLow 55.70000 abcd  
## BRN:AftHigh 55.69525 abcd  
## BL/BR:AftHigh 55.63933 abcd  
## WT/BLK:AftLow 54.70000 bcde  
## BLK:AftLow 54.40000 cde  
## WT/BR:AftLow 53.76667 de  
## BRN:AftLow 53.00000 e  
## BL/BR:AftLow 52.56667 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 28.663 5.733 16.326 4.822e-07 \*\*\*  
## THIregime 1 53.254 53.254 151.667 7.292e-12 \*\*\*  
## Colour:THIregime 5 2.582 0.516 1.471 0.2361   
## Residuals 24 8.427 0.351   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3511238   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.47606 0.9643812 6 57.2 59.78643  
## BLK 56.85815 1.2824190 6 55.4 58.11179  
## BRN 56.10851 1.7516333 6 53.8 58.05330  
## WHT 56.15059 1.7396893 6 53.6 58.12714  
## WT/BLK 56.32464 1.3735455 6 54.7 57.81062  
## WT/BR 55.77956 1.5154666 6 53.7 57.32277  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.05779   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.47606 a  
## BLK 56.85815 b  
## WT/BLK 56.32464 bc  
## WHT 56.15059 bc  
## BRN 56.10851 bc  
## WT/BR 55.77956 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3511238   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.8325 0.7542926 18 56.68159 59.78643  
## AftLow 55.4000 1.3284223 18 53.60000 58.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4076592   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.8325 a  
## AftLow 55.4000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3511238 24 56.61625 1.04662 1.744478  
##   
## $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 59.15212 0.5691282 3 58.68614 59.78643 58.83497 58.98379  
## BL/BR:AftLow 57.80000 0.7937254 3 57.20000 58.70000 57.35000 57.50000  
## BLK:AftHigh 58.01631 0.1324026 3 57.86516 58.11179 57.96857 58.07197  
## BLK:AftLow 55.70000 0.2645751 3 55.40000 55.90000 55.60000 55.80000  
## BRN:AftHigh 57.61703 0.4513288 3 57.15202 58.05330 57.39889 57.64577  
## BRN:AftLow 54.60000 0.8000000 3 53.80000 55.40000 54.20000 54.60000  
## WHT:AftHigh 57.56785 0.5719141 3 56.98410 58.12714 57.28821 57.59232  
## WHT:AftLow 54.73333 1.1015141 3 53.60000 55.80000 54.20000 54.80000  
## WT/BLK:AftHigh 57.54927 0.2395312 3 57.34019 57.81062 57.41860 57.49700  
## WT/BLK:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 57.09245 0.3566837 3 56.68159 57.32277 56.97729 57.27299  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 59.38511  
## BL/BR:AftLow 58.10000  
## BLK:AftHigh 58.09188  
## BLK:AftLow 55.85000  
## BRN:AftHigh 57.84954  
## BRN:AftLow 55.00000  
## WHT:AftHigh 57.85973  
## WHT:AftLow 55.30000  
## WT/BLK:AftHigh 57.65381  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.29788  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.15212 a  
## BLK:AftHigh 58.01631 ab  
## BL/BR:AftLow 57.80000 ab  
## BRN:AftHigh 57.61703 ab  
## WHT:AftHigh 57.56785 ab  
## WT/BLK:AftHigh 57.54927 ab  
## WT/BR:AftHigh 57.09245 bc  
## BLK:AftLow 55.70000 cd  
## WT/BLK:AftLow 55.10000 d  
## WHT:AftLow 54.73333 d  
## BRN:AftLow 54.60000 d  
## WT/BR:AftLow 54.46667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT70 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 77.128 15.426 11.830 7.620e-06 \*\*\*  
## THIregime 1 47.822 47.822 36.675 2.969e-06 \*\*\*  
## Colour:THIregime 5 6.402 1.280 0.982 0.449   
## Residuals 24 31.294 1.304   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.303928   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 59.03602 1.754839 6 55.9 60.28299  
## BLK 57.29824 1.245433 6 55.7 58.80375  
## BRN 54.89301 1.892707 6 53.1 56.66068  
## WHT 55.10621 2.305117 6 51.6 57.95110  
## WT/BLK 55.50923 1.154823 6 54.3 56.69988  
## WT/BR 55.70599 1.497893 6 53.6 57.50745  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.038431   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 59.03602 a  
## BLK 57.29824 ab  
## WT/BR 55.70599 bc  
## WT/BLK 55.50923 bc  
## WHT 55.10621 c  
## BRN 54.89301 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.303928   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.41068 1.299662 18 55.6491 60.28299  
## AftLow 55.10556 2.250614 18 51.6000 60.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7855863   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.41068 a  
## AftLow 55.10556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.303928 24 56.25812 2.029746 3.361726  
##   
## $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 59.47203 1.27996839 3 57.99647 60.28299 59.06655 60.13664  
## BL/BR:AftLow 58.60000 2.34307490 3 55.90000 60.10000 57.85000 59.80000  
## BLK:AftHigh 58.26314 0.47041926 3 57.94698 58.80375 57.99284 58.03871  
## BLK:AftLow 56.33333 0.92915732 3 55.70000 57.40000 55.80000 55.90000  
## BRN:AftHigh 56.61936 0.04107155 3 56.57854 56.66068 56.59870 56.61886  
## BRN:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WHT:AftHigh 56.67909 1.16992364 3 55.64910 57.95110 56.04309 56.43708  
## WHT:AftLow 53.53333 2.11974841 3 51.60000 55.80000 52.40000 53.20000  
## WT/BLK:AftHigh 56.55178 0.22342495 3 56.29479 56.69988 56.47774 56.66068  
## WT/BLK:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BR:AftHigh 56.87864 0.58355170 3 56.35453 57.50745 56.56423 56.77393  
## WT/BR:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 60.20981  
## BL/BR:AftLow 59.95000  
## BLK:AftHigh 58.42123  
## BLK:AftLow 56.65000  
## BRN:AftHigh 56.63977  
## BRN:AftLow 53.20000  
## WHT:AftHigh 57.19409  
## WHT:AftLow 54.50000  
## WT/BLK:AftHigh 56.68028  
## WT/BLK:AftLow 54.55000  
## WT/BR:AftHigh 57.14069  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.47203 a  
## BL/BR:AftLow 58.60000 a  
## BLK:AftHigh 58.26314 a  
## WT/BR:AftHigh 56.87864 ab  
## WHT:AftHigh 56.67909 ab  
## BRN:AftHigh 56.61936 ab  
## WT/BLK:AftHigh 56.55178 ab  
## BLK:AftLow 56.33333 abc  
## WT/BR:AftLow 54.53333 bc  
## WT/BLK:AftLow 54.46667 bc  
## WHT:AftLow 53.53333 bc  
## BRN:AftLow 53.16667 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT71 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 50.770 10.154 8.0066 0.0001475 \*\*\*  
## THIregime 1 41.724 41.724 32.8996 6.547e-06 \*\*\*  
## Colour:THIregime 5 1.981 0.396 0.3125 0.9005720   
## Residuals 24 30.437 1.268   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.268209   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.29988 1.5776618 6 53.2 57.31406  
## BLK 58.20771 0.7285919 6 57.4 58.96554  
## BRN 56.19048 1.3023097 6 54.6 57.74227  
## WHT 56.13258 1.3381254 6 54.3 57.71189  
## WT/BLK 55.11984 1.3958719 6 53.1 56.72602  
## WT/BR 54.47556 2.5245790 6 51.2 57.73744  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.010317   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.20771 a  
## BRN 56.19048 b  
## WHT 56.13258 b  
## BL/BR 55.29988 b  
## WT/BLK 55.11984 b  
## WT/BR 54.47556 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.268209   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.98090 1.205692 18 54.74909 58.96554  
## AftLow 54.82778 1.854662 18 51.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7747517   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.98090 a  
## AftLow 54.82778 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.268209 24 55.90434 2.01442 3.315362  
##   
## $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 56.36642 0.8286538 3 55.77790 57.31406 55.89260 56.00731  
## BL/BR:AftLow 54.23333 1.4571662 3 53.20000 55.90000 53.40000 53.60000  
## BLK:AftHigh 58.84876 0.1046774 3 58.76336 58.96554 58.79037 58.81739  
## BLK:AftLow 57.56667 0.2886751 3 57.40000 57.90000 57.40000 57.40000  
## BRN:AftHigh 57.24763 0.4289606 3 56.97778 57.74227 57.00031 57.02284  
## BRN:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WHT:AftHigh 57.23182 0.4450899 3 56.83286 57.71189 56.99179 57.15071  
## WHT:AftLow 55.03333 0.8082904 3 54.30000 55.90000 54.60000 54.90000  
## WT/BLK:AftHigh 56.27301 0.5276315 3 55.69369 56.72602 56.04651 56.39933  
## WT/BLK:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BR:AftHigh 55.91778 1.5969910 3 54.74909 57.73744 55.00795 55.26681  
## WT/BR:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## Q75  
## BL/BR:AftHigh 56.66068  
## BL/BR:AftLow 54.75000  
## BLK:AftHigh 58.89146  
## BLK:AftLow 57.65000  
## BRN:AftHigh 57.38255  
## BRN:AftLow 55.40000  
## WHT:AftHigh 57.43130  
## WHT:AftLow 55.40000  
## WT/BLK:AftHigh 56.56267  
## WT/BLK:AftLow 54.40000  
## WT/BR:AftHigh 56.50213  
## WT/BR:AftLow 53.95000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.84876 a  
## BLK:AftLow 57.56667 ab  
## BRN:AftHigh 57.24763 abc  
## WHT:AftHigh 57.23182 abc  
## BL/BR:AftHigh 56.36642 abc  
## WT/BLK:AftHigh 56.27301 abcd  
## WT/BR:AftHigh 55.91778 abcd  
## BRN:AftLow 55.13333 bcd  
## WHT:AftLow 55.03333 bcd  
## BL/BR:AftLow 54.23333 cd  
## WT/BLK:AftLow 53.96667 cd  
## WT/BR:AftLow 53.03333 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 49.666 9.933 26.0509 5.784e-09 \*\*\*  
## THIregime 1 39.612 39.612 103.8885 3.382e-10 \*\*\*  
## Colour:THIregime 5 3.170 0.634 1.6628 0.182   
## Residuals 24 9.151 0.381   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3812963   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.29634 0.9073752 6 56.2 58.55808  
## BLK 56.52556 1.1836403 6 54.9 57.72881  
## BRN 54.41723 1.7320499 6 52.5 56.32267  
## WHT 56.32567 1.1509570 6 54.6 57.52467  
## WT/BLK 54.80495 1.1399962 6 53.7 55.91583  
## WT/BR 54.19075 1.5931375 6 51.6 55.80694  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.102302   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.29634 a  
## BLK 56.52556 a  
## WHT 56.32567 a  
## WT/BLK 54.80495 b  
## BRN 54.41723 b  
## WT/BR 54.19075 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.3812963   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.64239 1.034761 18 54.64306 58.55808  
## AftLow 54.54444 1.604854 18 51.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4248135   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.64239 a  
## AftLow 54.54444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.3812963 24 55.59342 1.110729 1.817886  
##   
## $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 57.82601 0.64291057 3 57.35326 58.55808 57.45998 57.56669  
## BL/BR:AftLow 56.76667 0.89628864 3 56.20000 57.80000 56.25000 56.30000  
## BLK:AftHigh 57.55111 0.27787121 3 57.23090 57.72881 57.46227 57.69363  
## BLK:AftLow 55.50000 0.51961524 3 54.90000 55.80000 55.35000 55.80000  
## BRN:AftHigh 55.93446 0.33769289 3 55.70862 56.32267 55.74035 55.77209  
## BRN:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WHT:AftHigh 57.28468 0.33065994 3 56.90751 57.52467 57.16469 57.42186  
## WHT:AftLow 55.36667 0.66583281 3 54.60000 55.80000 55.15000 55.70000  
## WT/BLK:AftHigh 55.84324 0.10743408 3 55.71982 55.91583 55.80694 55.89405  
## WT/BLK:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BR:AftHigh 55.41483 0.66840200 3 54.64306 55.80694 55.21877 55.79449  
## WT/BR:AftLow 52.96667 1.18462371 3 51.60000 53.70000 52.60000 53.60000  
## Q75  
## BL/BR:AftHigh 58.06239  
## BL/BR:AftLow 57.05000  
## BLK:AftHigh 57.71122  
## BLK:AftLow 55.80000  
## BRN:AftHigh 56.04738  
## BRN:AftLow 53.10000  
## WHT:AftHigh 57.47327  
## WHT:AftLow 55.75000  
## WT/BLK:AftHigh 55.90494  
## WT/BLK:AftLow 53.80000  
## WT/BR:AftHigh 55.80071  
## WT/BR:AftLow 53.65000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.82601 a  
## BLK:AftHigh 57.55111 ab  
## WHT:AftHigh 57.28468 abc  
## BL/BR:AftLow 56.76667 abcd  
## BRN:AftHigh 55.93446 bcd  
## WT/BLK:AftHigh 55.84324 bcd  
## BLK:AftLow 55.50000 cde  
## WT/BR:AftHigh 55.41483 de  
## WHT:AftLow 55.36667 de  
## WT/BLK:AftLow 53.76667 ef  
## WT/BR:AftLow 52.96667 f  
## BRN:AftLow 52.90000 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT73 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 15.312 3.062 3.1709 0.02449 \*   
## THIregime 1 64.009 64.009 66.2794 2.312e-08 \*\*\*  
## Colour:THIregime 5 1.454 0.291 0.3011 0.90737   
## Residuals 24 23.178 0.966   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9657512   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.16615 1.455180 6 54.2 57.64728  
## BLK 55.66775 1.401635 6 54.2 57.09547  
## BRN 55.00680 1.796622 6 52.6 56.78961  
## WHT 54.65930 2.629153 6 51.2 57.98376  
## WT/BLK 55.67257 1.413848 6 53.7 57.13111  
## WT/BR 56.59469 1.227548 6 55.1 58.04210  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.754292   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 56.59469 a  
## BL/BR 56.16615 ab  
## WT/BLK 55.67257 ab  
## BLK 55.66775 ab  
## BRN 55.00680 ab  
## WHT 54.65930 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.9657512   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.96131 0.7473145 18 55.22906 58.0421  
## AftLow 54.29444 1.3383362 18 51.20000 56.1000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6760825   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.96131 a  
## AftLow 54.29444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.9657512 24 55.62788 1.766608 2.893131  
##   
## $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 57.43229 0.3383746 3 57.04225 57.64728 57.32480 57.60735  
## BL/BR:AftLow 54.90000 0.6082763 3 54.20000 55.30000 54.70000 55.20000  
## BLK:AftHigh 56.93551 0.1408751 3 56.82994 57.09547 56.85553 56.88112  
## BLK:AftLow 54.40000 0.2645751 3 54.20000 54.70000 54.25000 54.30000  
## BRN:AftHigh 56.58026 0.3448759 3 56.18221 56.78961 56.47558 56.76895  
## BRN:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WHT:AftHigh 56.28526 1.4854341 3 55.22906 57.98376 55.43601 55.64295  
## WHT:AftLow 53.03333 2.6727015 3 51.20000 56.10000 51.50000 51.80000  
## WT/BLK:AftHigh 56.87847 0.4375824 3 56.37320 57.13111 56.75215 57.13111  
## WT/BLK:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## WT/BR:AftHigh 57.65605 0.3527125 3 57.35064 58.04210 57.46302 57.57541  
## WT/BR:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## Q75  
## BL/BR:AftHigh 57.62731  
## BL/BR:AftLow 55.25000  
## BLK:AftHigh 56.98830  
## BLK:AftLow 54.50000  
## BRN:AftHigh 56.77928  
## BRN:AftLow 53.85000  
## WHT:AftHigh 56.81336  
## WHT:AftLow 53.95000  
## WT/BLK:AftHigh 57.13111  
## WT/BLK:AftLow 54.85000  
## WT/BR:AftHigh 57.80875  
## WT/BR:AftLow 55.75000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 57.65605 a  
## BL/BR:AftHigh 57.43229 a  
## BLK:AftHigh 56.93551 ab  
## WT/BLK:AftHigh 56.87847 ab  
## BRN:AftHigh 56.58026 ab  
## WHT:AftHigh 56.28526 abc  
## WT/BR:AftLow 55.53333 abcd  
## BL/BR:AftLow 54.90000 abcd  
## WT/BLK:AftLow 54.46667 bcd  
## BLK:AftLow 54.40000 bcd  
## BRN:AftLow 53.43333 cd  
## WHT:AftLow 53.03333 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 56.474 11.295 21.1381 4.417e-08 \*\*\*  
## THIregime 1 61.882 61.882 115.8123 1.150e-10 \*\*\*  
## Colour:THIregime 5 5.004 1.001 1.8728 0.1367   
## Residuals 24 12.824 0.534   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5343343   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.62394 0.9661624 6 56.3 58.76193  
## BLK 57.15709 1.1729043 6 55.7 58.56480  
## BRN 54.13293 2.2452273 6 51.3 56.67462  
## WHT 54.58824 1.9643194 6 51.6 56.59304  
## WT/BLK 55.87433 1.6811083 6 53.6 57.99357  
## WT/BR 55.72335 1.3809899 6 54.3 57.05271  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.304895   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.62394 a  
## BLK 57.15709 ab  
## WT/BLK 55.87433 bc  
## WT/BR 55.72335 c  
## WHT 54.58824 cd  
## BRN 54.13293 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.5343343   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.16107 1.002319 18 55.52381 58.76193  
## AftLow 54.53889 1.834679 18 51.30000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5028907   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.16107 a  
## AftLow 54.53889 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.5343343 24 55.84998 1.308831 2.151999  
##   
## $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 58.44788 0.29503722 3 58.17651 58.76193 58.29085 58.40519  
## BL/BR:AftLow 56.80000 0.45825757 3 56.30000 57.20000 56.60000 56.90000  
## BLK:AftHigh 58.08085 0.41945534 3 57.82198 58.56480 57.83887 57.85576  
## BLK:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## BRN:AftHigh 56.03253 0.56021225 3 55.64343 56.67462 55.71149 55.77956  
## BRN:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## WHT:AftHigh 56.20981 0.59545472 3 55.52381 56.59304 56.01819 56.51258  
## WHT:AftLow 52.96667 1.18462371 3 51.60000 53.70000 52.60000 53.60000  
## WT/BLK:AftHigh 57.21532 0.72607095 3 56.55614 57.99357 56.82620 57.09626  
## WT/BLK:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## WT/BR:AftHigh 56.98002 0.08229568 3 56.89067 57.05271 56.94368 56.99670  
## WT/BR:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## Q75  
## BL/BR:AftHigh 58.58356  
## BL/BR:AftLow 57.05000  
## BLK:AftHigh 58.21028  
## BLK:AftLow 56.50000  
## BRN:AftHigh 56.22709  
## BRN:AftLow 52.70000  
## WHT:AftHigh 56.55281  
## WHT:AftLow 53.65000  
## WT/BLK:AftHigh 57.54491  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.02470  
## WT/BR:AftLow 54.55000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.44788 a  
## BLK:AftHigh 58.08085 ab  
## WT/BLK:AftHigh 57.21532 ab  
## WT/BR:AftHigh 56.98002 ab  
## BL/BR:AftLow 56.80000 ab  
## BLK:AftLow 56.23333 bc  
## WHT:AftHigh 56.20981 bc  
## BRN:AftHigh 56.03253 bc  
## WT/BLK:AftLow 54.53333 cd  
## WT/BR:AftLow 54.46667 cd  
## WHT:AftLow 52.96667 de  
## BRN:AftLow 52.23333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT75 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 34.650 6.930 10.9671 1.401e-05 \*\*\*  
## THIregime 1 44.969 44.969 71.1674 1.218e-08 \*\*\*  
## Colour:THIregime 5 2.375 0.475 0.7516 0.5931   
## Residuals 24 15.165 0.632   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6318832   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.79777 1.8233001 6 53.7 58.88738  
## BLK 58.29609 0.7556807 6 57.3 59.10373  
## BRN 55.70551 1.5742615 6 53.6 57.34421  
## WHT 56.61918 1.2470733 6 55.1 58.03132  
## WT/BLK 55.84311 1.4487736 6 54.2 57.23565  
## WT/BR 55.31094 1.5728874 6 53.1 56.98923  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.419017   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.29609 a  
## BL/BR 56.79777 b  
## WHT 56.61918 bc  
## WT/BLK 55.84311 bc  
## BRN 55.70551 bc  
## WT/BR 55.31094 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6318832   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.54642 0.8895426 18 56.21116 59.10373  
## AftLow 55.31111 1.5095340 18 53.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5468717   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.54642 a  
## AftLow 55.31111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6318832 24 56.42877 1.408698 2.340205  
##   
## $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 57.72888 1.2111392 3 56.47120 58.88738 57.14962 57.82804  
## BL/BR:AftLow 55.86667 2.0599353 3 53.70000 57.80000 54.90000 56.10000  
## BLK:AftHigh 58.95884 0.1629954 3 58.78237 59.10373 58.88640 58.99043  
## BLK:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BRN:AftHigh 57.07769 0.3657723 3 56.66068 57.34421 56.94443 57.22818  
## BRN:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## WHT:AftHigh 57.70502 0.2957706 3 57.45453 58.03132 57.54187 57.62921  
## WHT:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## WT/BLK:AftHigh 57.15289 0.1321908 3 57.00044 57.23565 57.11151 57.22258  
## WT/BLK:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WT/BR:AftHigh 56.65520 0.4005350 3 56.21116 56.98923 56.48819 56.76522  
## WT/BR:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## Q75  
## BL/BR:AftHigh 58.35771  
## BL/BR:AftLow 56.95000  
## BLK:AftHigh 59.04708  
## BLK:AftLow 57.80000  
## BRN:AftHigh 57.28620  
## BRN:AftLow 54.70000  
## WHT:AftHigh 57.83026  
## WHT:AftLow 55.75000  
## WT/BLK:AftHigh 57.22912  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 56.87723  
## WT/BR:AftLow 54.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.95884 a  
## BL/BR:AftHigh 57.72888 ab  
## WHT:AftHigh 57.70502 ab  
## BLK:AftLow 57.63333 ab  
## WT/BLK:AftHigh 57.15289 ab  
## BRN:AftHigh 57.07769 ab  
## WT/BR:AftHigh 56.65520 abc  
## BL/BR:AftLow 55.86667 bcd  
## WHT:AftLow 55.53333 bcd  
## WT/BLK:AftLow 54.53333 cd  
## BRN:AftLow 54.33333 cd  
## WT/BR:AftLow 53.96667 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT76 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 7.770 1.554 2.4139 0.06581 .   
## THIregime 1 63.892 63.892 99.2405 5.295e-10 \*\*\*  
## Colour:THIregime 5 0.674 0.135 0.2095 0.95517   
## Residuals 24 15.451 0.644   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6438122   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.57156 1.934242 6 53.8 58.96056  
## BLK 56.26591 1.437743 6 54.6 57.85339  
## BRN 55.79905 1.623043 6 53.7 57.45966  
## WHT 55.84683 1.515651 6 54.3 57.29714  
## WT/BLK 56.60900 1.559057 6 54.3 58.33332  
## WT/BR 55.30091 1.683188 6 53.7 56.96385  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.432349   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 56.60900 a  
## BL/BR 56.57156 a  
## BLK 56.26591 a  
## WHT 55.84683 a  
## BRN 55.79905 a  
## WT/BR 55.30091 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6438122   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.39775 0.5879364 18 56.68682 58.96056  
## AftLow 54.73333 1.0295630 18 53.70000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5520096   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.39775 a  
## AftLow 54.73333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6438122 24 56.06554 1.431145 2.362191  
##   
## $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 57.67646 1.16512085 3 56.68682 58.96056 57.03441 57.38201  
## BL/BR:AftLow 55.46667 2.08166600 3 53.80000 57.80000 54.30000 54.80000  
## BLK:AftHigh 57.53182 0.28317195 3 57.31974 57.85339 57.37103 57.42233  
## BLK:AftLow 55.00000 0.52915026 3 54.60000 55.60000 54.70000 54.80000  
## BRN:AftHigh 57.23143 0.29530700 3 56.89791 57.45966 57.11731 57.33671  
## BRN:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## WHT:AftHigh 57.22699 0.07162566 3 57.15398 57.29714 57.19191 57.22984  
## WHT:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WT/BLK:AftHigh 57.88467 0.57561312 3 57.23565 58.33332 57.66034 58.08504  
## WT/BLK:AftLow 55.33333 0.92915732 3 54.30000 56.10000 54.95000 55.60000  
## WT/BR:AftHigh 56.83516 0.13311705 3 56.69802 56.96385 56.77082 56.84363  
## WT/BR:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## Q75  
## BL/BR:AftHigh 58.17128  
## BL/BR:AftLow 56.30000  
## BLK:AftHigh 57.63786  
## BLK:AftLow 55.20000  
## BRN:AftHigh 57.39818  
## BRN:AftLow 54.70000  
## WHT:AftHigh 57.26349  
## WHT:AftLow 54.55000  
## WT/BLK:AftHigh 58.20918  
## WT/BLK:AftLow 55.85000  
## WT/BR:AftHigh 56.90374  
## WT/BR:AftLow 53.80000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 57.88467 a  
## BL/BR:AftHigh 57.67646 ab  
## BLK:AftHigh 57.53182 ab  
## BRN:AftHigh 57.23143 abc  
## WHT:AftHigh 57.22699 abc  
## WT/BR:AftHigh 56.83516 abc  
## BL/BR:AftLow 55.46667 bcd  
## WT/BLK:AftLow 55.33333 bcd  
## BLK:AftLow 55.00000 cd  
## WHT:AftLow 54.46667 d  
## BRN:AftLow 54.36667 d  
## WT/BR:AftLow 53.76667 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 54.662 10.932 25.6594 6.720e-09 \*\*\*  
## THIregime 1 36.740 36.740 86.2327 2.046e-09 \*\*\*  
## Colour:THIregime 5 2.412 0.482 1.1321 0.3705   
## Residuals 24 10.225 0.426   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4260592   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.21958 0.791988 6 56.1 58.01389  
## BLK 57.93158 1.051759 6 56.1 58.98194  
## BRN 56.21839 1.257926 6 54.7 57.55674  
## WHT 55.33475 1.597445 6 53.1 57.03238  
## WT/BLK 54.24593 1.634543 6 51.6 55.96375  
## WT/BR 55.41114 1.155889 6 53.7 56.65321  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.16521   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.93158 a  
## BL/BR 57.21958 ab  
## BRN 56.21839 bc  
## WT/BR 55.41114 c  
## WHT 55.33475 cd  
## WT/BLK 54.24593 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4260592   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.07046 1.128618 18 54.63522 58.98194  
## AftLow 55.05000 1.638597 18 51.60000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4490576   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.07046 a  
## AftLow 55.05000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4260592 24 56.06023 1.164341 1.921633  
##   
## $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 57.90582 0.1095036 3 57.79494 58.01389 57.85178 57.90863  
## BL/BR:AftLow 56.53333 0.3785939 3 56.10000 56.80000 56.40000 56.70000  
## BLK:AftHigh 58.62983 0.5740335 3 57.96743 58.98194 58.45377 58.94011  
## BLK:AftLow 57.23333 0.9865766 3 56.10000 57.90000 56.90000 57.70000  
## BRN:AftHigh 57.33678 0.2086891 3 57.14156 57.55674 57.22680 57.31204  
## BRN:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## WHT:AftHigh 56.70284 0.4015526 3 56.25559 57.03238 56.53808 56.82056  
## WHT:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WT/BLK:AftHigh 55.49186 0.7431559 3 54.63522 55.96375 55.25592 55.87663  
## WT/BLK:AftLow 53.00000 1.2124356 3 51.60000 53.70000 52.65000 53.70000  
## WT/BR:AftHigh 56.35561 0.4698882 3 55.81391 56.65321 56.20680 56.59970  
## WT/BR:AftLow 54.46667 0.6658328 3 53.70000 54.90000 54.25000 54.80000  
## Q75  
## BL/BR:AftHigh 57.96126  
## BL/BR:AftLow 56.75000  
## BLK:AftHigh 58.96102  
## BLK:AftLow 57.80000  
## BRN:AftHigh 57.43439  
## BRN:AftLow 55.30000  
## WHT:AftHigh 56.92647  
## WHT:AftLow 54.40000  
## WT/BLK:AftHigh 55.92019  
## WT/BLK:AftLow 53.70000  
## WT/BR:AftHigh 56.62646  
## WT/BR:AftLow 54.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.62983 a  
## BL/BR:AftHigh 57.90582 ab  
## BRN:AftHigh 57.33678 abc  
## BLK:AftLow 57.23333 abc  
## WHT:AftHigh 56.70284 bcd  
## BL/BR:AftLow 56.53333 bcd  
## WT/BR:AftHigh 56.35561 bcde  
## WT/BLK:AftHigh 55.49186 cdef  
## BRN:AftLow 55.10000 def  
## WT/BR:AftLow 54.46667 efg  
## WHT:AftLow 53.96667 fg  
## WT/BLK:AftLow 53.00000 g  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT78 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 9.661 1.932 1.8899 0.1336   
## THIregime 1 63.587 63.587 62.1996 4.059e-08 \*\*\*  
## Colour:THIregime 5 0.628 0.126 0.1229 0.9859   
## Residuals 24 24.536 1.022   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.022314   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.17072 1.307659 6 54.6 57.48393  
## BLK 55.36030 1.457475 6 53.7 56.94443  
## BRN 54.63254 2.613002 6 51.2 57.94733  
## WHT 55.11713 1.480078 6 53.7 56.50060  
## WT/BLK 55.87209 1.514716 6 53.8 57.65381  
## WT/BR 55.82139 1.613460 6 53.6 57.77926  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.804934   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.17072 a  
## WT/BLK 55.87209 a  
## WT/BR 55.82139 a  
## BLK 55.36030 a  
## WHT 55.11713 a  
## BRN 54.63254 a  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 1.022314   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.82473 0.7212832 18 55.15879 57.94733  
## AftLow 54.16667 1.2362181 18 51.20000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6955995   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.82473 a  
## AftLow 54.16667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 1.022314 24 55.4957 1.821935 2.976649  
##   
## $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 57.34145 0.18206395 3 57.13634 57.48393 57.27021 57.40408  
## BL/BR:AftLow 55.00000 0.36055513 3 54.60000 55.30000 54.85000 55.10000  
## BLK:AftHigh 56.65393 0.25848976 3 56.44933 56.94443 56.50867 56.56802  
## BLK:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## BRN:AftHigh 56.23175 1.50123095 3 55.15879 57.94733 55.37397 55.58915  
## BRN:AftLow 53.03333 2.67270150 3 51.20000 56.10000 51.50000 51.80000  
## WHT:AftHigh 56.46759 0.04467776 3 56.41675 56.50060 56.45109 56.48542  
## WHT:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WT/BLK:AftHigh 57.14418 0.49120592 3 56.67375 57.65381 56.88936 57.10498  
## WT/BLK:AftLow 54.60000 0.80000000 3 53.80000 55.40000 54.20000 54.60000  
## WT/BR:AftHigh 57.10946 0.62249419 3 56.54867 57.77926 56.77455 57.00044  
## WT/BR:AftLow 54.53333 1.06926766 3 53.60000 55.70000 53.95000 54.30000  
## Q75  
## BL/BR:AftHigh 57.44400  
## BL/BR:AftLow 55.20000  
## BLK:AftHigh 56.75623  
## BLK:AftLow 54.25000  
## BRN:AftHigh 56.76824  
## BRN:AftLow 53.95000  
## WHT:AftHigh 56.49301  
## WHT:AftLow 53.80000  
## WT/BLK:AftHigh 57.37939  
## WT/BLK:AftLow 55.00000  
## WT/BR:AftHigh 57.38985  
## WT/BR:AftLow 55.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.34145 a  
## WT/BLK:AftHigh 57.14418 a  
## WT/BR:AftHigh 57.10946 a  
## BLK:AftHigh 56.65393 ab  
## WHT:AftHigh 56.46759 ab  
## BRN:AftHigh 56.23175 ab  
## BL/BR:AftLow 55.00000 abc  
## WT/BLK:AftLow 54.60000 abc  
## WT/BR:AftLow 54.53333 abc  
## BLK:AftLow 54.06667 bc  
## WHT:AftLow 53.76667 bc  
## BRN:AftLow 53.03333 c  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT79 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 38.692 7.738 29.3690 1.739e-09 \*\*\*  
## THIregime 1 48.133 48.133 182.6787 1.025e-12 \*\*\*  
## Colour:THIregime 5 2.996 0.599 2.2744 0.07935 .   
## Residuals 24 6.324 0.263   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2634866   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.26016 0.9150577 6 56.1 58.28105  
## BLK 56.73885 1.2044504 6 55.4 58.02468  
## BRN 54.63544 2.0099197 6 51.6 56.68682  
## WHT 55.74495 1.4793114 6 53.7 57.25102  
## WT/BLK 54.36992 1.3208736 6 53.1 55.65448  
## WT/BR 55.52184 1.1089669 6 54.2 56.69055  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9163227   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.26016 a  
## BLK 56.73885 a  
## WHT 55.74495 b  
## WT/BR 55.52184 bc  
## BRN 54.63544 cd  
## WT/BLK 54.36992 d  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2634866   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.86816 0.9116031 18 55.52816 58.28105  
## AftLow 54.55556 1.4118083 18 51.60000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3531395   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.86816 a  
## AftLow 54.55556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2634866 24 55.71186 0.9213648 1.511175  
##   
## $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 57.98698 0.25528492 3 57.82224 58.28105 57.83995 57.85766  
## BL/BR:AftLow 56.53333 0.66583281 3 56.10000 57.30000 56.15000 56.20000  
## BLK:AftHigh 57.81104 0.18618921 3 57.68335 58.02468 57.70422 57.72509  
## BLK:AftLow 55.66667 0.37859389 3 55.40000 56.10000 55.45000 55.50000  
## BRN:AftHigh 56.30422 0.58453452 3 55.63136 56.68682 56.11292 56.59447  
## BRN:AftLow 52.96667 1.18462371 3 51.60000 53.70000 52.60000 53.60000  
## WHT:AftHigh 57.02322 0.35437239 3 56.61494 57.25102 56.90933 57.20371  
## WHT:AftLow 54.46667 0.66583281 3 53.70000 54.90000 54.25000 54.80000  
## WT/BLK:AftHigh 55.57317 0.07055016 3 55.52816 55.65448 55.53252 55.53688  
## WT/BLK:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## WT/BR:AftHigh 56.51034 0.24446807 3 56.23207 56.69055 56.42024 56.60841  
## WT/BR:AftLow 54.53333 0.28867513 3 54.20000 54.70000 54.45000 54.70000  
## Q75  
## BL/BR:AftHigh 58.06936  
## BL/BR:AftLow 56.75000  
## BLK:AftHigh 57.87488  
## BLK:AftLow 55.80000  
## BRN:AftHigh 56.64064  
## BRN:AftLow 53.65000  
## WHT:AftHigh 57.22737  
## WHT:AftLow 54.85000  
## WT/BLK:AftHigh 55.59568  
## WT/BLK:AftLow 53.20000  
## WT/BR:AftHigh 56.64948  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.98698 a  
## BLK:AftHigh 57.81104 ab  
## WHT:AftHigh 57.02322 abc  
## BL/BR:AftLow 56.53333 abc  
## WT/BR:AftHigh 56.51034 abc  
## BRN:AftHigh 56.30422 bc  
## BLK:AftLow 55.66667 cd  
## WT/BLK:AftHigh 55.57317 cd  
## WT/BR:AftLow 54.53333 de  
## WHT:AftLow 54.46667 def  
## WT/BLK:AftLow 53.16667 ef  
## BRN:AftLow 52.96667 f  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT80 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 13.578 2.716 5.6197 0.001445 \*\*   
## THIregime 1 49.417 49.417 102.2629 3.949e-10 \*\*\*  
## Colour:THIregime 5 0.911 0.182 0.3769 0.859505   
## Residuals 24 11.598 0.483   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4832377   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.84764 1.489532 6 54.2 57.32712  
## BLK 57.69148 1.286425 6 55.9 59.31509  
## BRN 56.64890 1.278321 6 55.1 58.09288  
## WHT 55.89948 1.684150 6 53.6 57.90536  
## WT/BLK 56.30718 1.422171 6 54.6 58.01970  
## WT/BR 56.46839 1.420743 6 54.3 58.02841  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.240937   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.69148 a  
## BRN 56.64890 ab  
## WT/BR 56.46839 ab  
## WT/BLK 56.30718 b  
## WHT 55.89948 b  
## BL/BR 55.84764 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4832377   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.64880 0.6257809 18 56.74199 59.31509  
## AftLow 55.30556 1.0690690 18 53.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4782417   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.64880 a  
## AftLow 55.30556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4832377 24 56.47718 1.230856 2.046519  
##   
## $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 57.19529 0.1683412 3 57.00566 57.32712 57.12937 57.25307  
## BL/BR:AftLow 54.50000 0.2645751 3 54.20000 54.70000 54.40000 54.60000  
## BLK:AftHigh 58.58296 0.6503917 3 58.07197 59.31509 58.21690 58.36183  
## BLK:AftLow 56.80000 1.1532563 3 55.90000 58.10000 56.15000 56.40000  
## BRN:AftHigh 57.76446 0.2974770 3 57.51308 58.09288 57.60025 57.68741  
## BRN:AftLow 55.53333 0.5131601 3 55.10000 56.10000 55.25000 55.40000  
## WHT:AftHigh 57.26564 0.5903077 3 56.74199 57.90536 56.94577 57.14956  
## WHT:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WT/BLK:AftHigh 57.48103 0.4683348 3 57.17031 58.01970 57.21169 57.25307  
## WT/BLK:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## WT/BR:AftHigh 57.60345 0.5638062 3 56.96385 58.02841 57.39097 57.81809  
## WT/BR:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## Q75  
## BL/BR:AftHigh 57.29010  
## BL/BR:AftLow 54.65000  
## BLK:AftHigh 58.83846  
## BLK:AftLow 57.25000  
## BRN:AftHigh 57.89015  
## BRN:AftLow 55.75000  
## WHT:AftHigh 57.52746  
## WHT:AftLow 55.00000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.40000  
## WT/BR:AftHigh 57.92325  
## WT/BR:AftLow 55.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.58296 a  
## BRN:AftHigh 57.76446 a  
## WT/BR:AftHigh 57.60345 a  
## WT/BLK:AftHigh 57.48103 ab  
## WHT:AftHigh 57.26564 abc  
## BL/BR:AftHigh 57.19529 abc  
## BLK:AftLow 56.80000 abcd  
## BRN:AftLow 55.53333 bcde  
## WT/BR:AftLow 55.33333 cde  
## WT/BLK:AftLow 55.13333 de  
## WHT:AftLow 54.53333 e  
## BL/BR:AftLow 54.50000 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 21.366 4.273 15.1283 9.484e-07 \*\*\*  
## THIregime 1 43.189 43.189 152.9020 6.701e-12 \*\*\*  
## Colour:THIregime 5 0.510 0.102 0.3615 0.8697   
## Residuals 24 6.779 0.282   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2824597   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.75211 1.238253 6 53.8 57.27224  
## BLK 56.29540 1.310064 6 54.2 57.63563  
## BRN 55.56312 1.206575 6 54.3 56.73162  
## WHT 55.63913 1.229704 6 54.2 56.85234  
## WT/BLK 54.15455 1.463084 6 52.5 55.85050  
## WT/BR 54.36749 1.318138 6 53.1 55.64515  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9487405   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 56.29540 a  
## BL/BR 55.75211 a  
## WHT 55.63913 a  
## BRN 55.56312 a  
## WT/BR 54.36749 b  
## WT/BLK 54.15455 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.2824597   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.3906 0.7660155 18 55.12743 57.63563  
## AftLow 54.2000 1.0482478 18 52.50000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3656329   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.3906 a  
## AftLow 54.2000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.2824597 24 55.2953 0.9611475 1.564637  
##   
## $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 56.63755 0.61467929 3 56.04506 57.27224 56.32020 56.59534  
## BL/BR:AftLow 54.86667 1.05039675 3 53.80000 55.90000 54.35000 54.90000  
## BLK:AftHigh 57.32414 0.51230326 3 56.73286 57.63563 57.16839 57.60392  
## BLK:AftLow 55.26667 0.92376043 3 54.20000 55.80000 55.00000 55.80000  
## BRN:AftHigh 56.65958 0.09790918 3 56.54810 56.73162 56.62355 56.69901  
## BRN:AftLow 54.46667 0.15275252 3 54.30000 54.60000 54.40000 54.50000  
## WHT:AftHigh 56.74494 0.16944006 3 56.54961 56.85234 56.69123 56.83286  
## WHT:AftLow 54.53333 0.28867513 3 54.20000 54.70000 54.45000 54.70000  
## WT/BLK:AftHigh 55.40910 0.38708959 3 55.12743 55.85050 55.18841 55.24939  
## WT/BLK:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## WT/BR:AftHigh 55.56832 0.06655833 3 55.52816 55.64515 55.52991 55.53165  
## WT/BR:AftLow 53.16667 0.11547005 3 53.10000 53.30000 53.10000 53.10000  
## Q75  
## BL/BR:AftHigh 56.93379  
## BL/BR:AftLow 55.40000  
## BLK:AftHigh 57.61977  
## BLK:AftLow 55.80000  
## BRN:AftHigh 56.71531  
## BRN:AftLow 54.55000  
## WHT:AftHigh 56.84260  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 55.54994  
## WT/BLK:AftLow 53.10000  
## WT/BR:AftHigh 55.58840  
## WT/BR:AftLow 53.20000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.32414 a  
## WHT:AftHigh 56.74494 ab  
## BRN:AftHigh 56.65958 ab  
## BL/BR:AftHigh 56.63755 ab  
## WT/BR:AftHigh 55.56832 bc  
## WT/BLK:AftHigh 55.40910 bc  
## BLK:AftLow 55.26667 bc  
## BL/BR:AftLow 54.86667 c  
## WHT:AftLow 54.53333 cd  
## BRN:AftLow 54.46667 cd  
## WT/BR:AftLow 53.16667 de  
## WT/BLK:AftLow 52.90000 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT82 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 34.810 6.962 10.4826 2.000e-05 \*\*\*  
## THIregime 1 37.526 37.526 56.5029 9.335e-08 \*\*\*  
## Colour:THIregime 5 1.269 0.254 0.3822 0.856   
## Residuals 24 15.939 0.664   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6641442   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.79766 1.138492 6 54.9 57.92169  
## BLK 57.44293 1.526516 6 54.7 58.98545  
## BRN 55.37302 1.636221 6 53.1 57.10323  
## WHT 56.42369 1.370438 6 54.3 57.92131  
## WT/BLK 54.40452 1.222153 6 52.6 55.83743  
## WT/BR 56.01735 1.127620 6 54.6 57.31928  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.45479   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.44293 a  
## BL/BR 56.79766 ab  
## WHT 56.42369 ab  
## WT/BR 56.01735 ab  
## BRN 55.37302 bc  
## WT/BLK 54.40452 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.6641442   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.09751 1.060909 18 54.67442 58.98545  
## AftLow 55.05556 1.390820 18 52.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5606583   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.09751 a  
## AftLow 55.05556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.6641442 24 56.07653 1.453283 2.399201  
##   
## $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 57.66199 0.4193918 3 57.17815 57.92169 57.53214 57.88612  
## BL/BR:AftLow 55.93333 0.9073772 3 54.90000 56.60000 55.60000 56.30000  
## BLK:AftHigh 58.35253 0.8367672 3 57.40382 58.98545 58.03607 58.66832  
## BLK:AftLow 56.53333 1.6258331 3 54.70000 57.80000 55.90000 57.10000  
## BRN:AftHigh 56.77938 0.3952054 3 56.33902 57.10323 56.61746 56.89590  
## BRN:AftLow 53.96667 0.7767453 3 53.10000 54.60000 53.65000 54.20000  
## WHT:AftHigh 57.51405 0.5150379 3 56.93510 57.92131 57.31043 57.68575  
## WHT:AftLow 55.33333 0.9291573 3 54.30000 56.10000 54.95000 55.60000  
## WT/BLK:AftHigh 55.37571 0.6174077 3 54.67442 55.83743 55.14485 55.61528  
## WT/BLK:AftLow 53.43333 0.7234178 3 52.60000 53.90000 53.20000 53.80000  
## WT/BR:AftHigh 56.90137 0.3619650 3 56.68682 57.31928 56.69242 56.69802  
## WT/BR:AftLow 55.13333 0.8386497 3 54.60000 56.10000 54.65000 54.70000  
## Q75  
## BL/BR:AftHigh 57.90391  
## BL/BR:AftLow 56.45000  
## BLK:AftHigh 58.82689  
## BLK:AftLow 57.45000  
## BRN:AftHigh 56.99956  
## BRN:AftLow 54.40000  
## WHT:AftHigh 57.80353  
## WHT:AftLow 55.85000  
## WT/BLK:AftHigh 55.72635  
## WT/BLK:AftLow 53.85000  
## WT/BR:AftHigh 57.00865  
## WT/BR:AftLow 55.40000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.35253 a  
## BL/BR:AftHigh 57.66199 ab  
## WHT:AftHigh 57.51405 abc  
## WT/BR:AftHigh 56.90137 abc  
## BRN:AftHigh 56.77938 abc  
## BLK:AftLow 56.53333 abc  
## BL/BR:AftLow 55.93333 bcd  
## WT/BLK:AftHigh 55.37571 bcde  
## WHT:AftLow 55.33333 bcde  
## WT/BR:AftLow 55.13333 cde  
## BRN:AftLow 53.96667 de  
## WT/BLK:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT83 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 60.428 12.086 14.8182 1.137e-06 \*\*\*  
## THIregime 1 47.399 47.399 58.1160 7.330e-08 \*\*\*  
## Colour:THIregime 5 3.200 0.640 0.7847 0.5708   
## Residuals 24 19.574 0.816   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8155886   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.20492 1.785245 6 53.9 58.52498  
## BLK 55.72486 1.463598 6 54.2 57.20952  
## BRN 55.19948 1.570432 6 53.7 56.68078  
## WHT 56.74120 1.110953 6 55.3 57.89364  
## WT/BLK 53.61867 1.742553 6 51.3 55.70675  
## WT/BR 54.09556 1.402996 6 52.5 55.74222  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.612147   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.20492 a  
## WHT 56.74120 ab  
## BLK 55.72486 ab  
## BRN 55.19948 bc  
## WT/BR 54.09556 c  
## WT/BLK 53.61867 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.8155886   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.57823 1.218407 18 54.64829 58.52498  
## AftLow 54.28333 1.846539 18 51.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6213018   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.57823 a  
## AftLow 54.28333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.8155886 24 55.43078 1.629238 2.65871  
##   
## $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 57.77650 1.17230263 3 56.42547 58.52498 57.40226 58.37906  
## BL/BR:AftLow 56.63333 2.36924742 3 53.90000 58.10000 55.90000 57.90000  
## BLK:AftHigh 57.04971 0.13988974 3 56.94941 57.20952 56.96981 56.99021  
## BLK:AftLow 54.40000 0.26457513 3 54.20000 54.70000 54.25000 54.30000  
## BRN:AftHigh 56.63229 0.05900461 3 56.56659 56.68078 56.60804 56.64948  
## BRN:AftLow 53.76667 0.05773503 3 53.70000 53.80000 53.75000 53.80000  
## WHT:AftHigh 57.71572 0.25117961 3 57.42840 57.89364 57.62677 57.82514  
## WHT:AftLow 55.76667 0.41633320 3 55.30000 56.10000 55.60000 55.90000  
## WT/BLK:AftHigh 55.00401 0.60860724 3 54.64829 55.70675 54.65264 54.65700  
## WT/BLK:AftLow 52.23333 1.20968315 3 51.30000 53.60000 51.55000 51.80000  
## WT/BR:AftHigh 55.29112 0.39101317 3 55.04902 55.74222 55.06557 55.08213  
## WT/BR:AftLow 52.90000 0.69282032 3 52.50000 53.70000 52.50000 52.50000  
## Q75  
## BL/BR:AftHigh 58.45202  
## BL/BR:AftLow 58.00000  
## BLK:AftHigh 57.09986  
## BLK:AftLow 54.50000  
## BRN:AftHigh 56.66513  
## BRN:AftLow 53.80000  
## WHT:AftHigh 57.85939  
## WHT:AftLow 56.00000  
## WT/BLK:AftHigh 55.18187  
## WT/BLK:AftLow 52.70000  
## WT/BR:AftHigh 55.41217  
## WT/BR:AftLow 53.10000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.77650 a  
## WHT:AftHigh 57.71572 a  
## BLK:AftHigh 57.04971 ab  
## BL/BR:AftLow 56.63333 ab  
## BRN:AftHigh 56.63229 ab  
## WHT:AftLow 55.76667 abc  
## WT/BR:AftHigh 55.29112 abcd  
## WT/BLK:AftHigh 55.00401 bcd  
## BLK:AftLow 54.40000 bcde  
## BRN:AftLow 53.76667 cde  
## WT/BR:AftLow 52.90000 de  
## WT/BLK:AftLow 52.23333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT84 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 18.806 3.761 7.6024 0.0002112 \*\*\*  
## THIregime 1 45.219 45.219 91.3993 1.174e-09 \*\*\*  
## Colour:THIregime 5 0.764 0.153 0.3089 0.9027376   
## Residuals 24 11.874 0.495   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4947438   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 55.82532 1.125532 6 54.7 56.91041  
## BLK 57.09047 1.109742 6 55.7 58.42541  
## BRN 55.63216 1.364568 6 53.7 57.02657  
## WHT 55.29625 1.795398 6 52.7 57.49990  
## WT/BLK 55.46361 1.319562 6 53.6 56.80007  
## WT/BR 54.71671 1.498779 6 52.6 56.25745  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.255623   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 57.09047 a  
## BL/BR 55.82532 b  
## BRN 55.63216 b  
## WT/BLK 55.46361 b  
## WHT 55.29625 b  
## WT/BR 54.71671 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4947438   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.79151 0.7186191 18 55.55256 58.42541  
## AftLow 54.55000 1.1546581 18 52.60000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4839018   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.79151 a  
## AftLow 54.55000 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4947438 24 55.67075 1.263465 2.07074  
##   
## $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 56.85064 0.05659014 3 56.79789 56.91041 56.82076 56.84363  
## BL/BR:AftLow 54.80000 0.10000000 3 54.70000 54.90000 54.75000 54.80000  
## BLK:AftHigh 57.94761 0.41402396 3 57.69472 58.42541 57.70871 57.72271  
## BLK:AftLow 56.23333 0.83864971 3 55.70000 57.20000 55.75000 55.80000  
## BRN:AftHigh 56.79765 0.36966624 3 56.37118 57.02657 56.68320 56.99521  
## BRN:AftLow 54.46667 0.66583281 3 53.70000 54.90000 54.25000 54.80000  
## WHT:AftHigh 56.55916 0.85466869 3 55.83051 57.49990 56.08878 56.34706  
## WHT:AftLow 54.03333 1.59478316 3 52.70000 55.80000 53.15000 53.60000  
## WT/BLK:AftHigh 56.59389 0.32739335 3 56.21639 56.80007 56.49080 56.76522  
## WT/BLK:AftLow 54.33333 0.64291005 3 53.60000 54.80000 54.10000 54.60000  
## WT/BR:AftHigh 56.00009 0.38902692 3 55.55256 56.25745 55.87140 56.19025  
## WT/BR:AftLow 53.43333 0.72341781 3 52.60000 53.90000 53.20000 53.80000  
## Q75  
## BL/BR:AftHigh 56.87702  
## BL/BR:AftLow 54.85000  
## BLK:AftHigh 58.07406  
## BLK:AftLow 56.50000  
## BRN:AftHigh 57.01089  
## BRN:AftLow 54.85000  
## WHT:AftHigh 56.92348  
## WHT:AftLow 54.70000  
## WT/BLK:AftHigh 56.78264  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 56.22385  
## WT/BR:AftLow 53.85000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 57.94761 a  
## BL/BR:AftHigh 56.85064 ab  
## BRN:AftHigh 56.79765 ab  
## WT/BLK:AftHigh 56.59389 ab  
## WHT:AftHigh 56.55916 ab  
## BLK:AftLow 56.23333 abc  
## WT/BR:AftHigh 56.00009 abcd  
## BL/BR:AftLow 54.80000 bcde  
## BRN:AftLow 54.46667 cde  
## WT/BLK:AftLow 54.33333 cde  
## WHT:AftLow 54.03333 de  
## WT/BR:AftLow 53.43333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT85 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 75.986 15.197 32.0298 7.186e-10 \*\*\*  
## THIregime 1 35.800 35.800 75.4527 7.133e-09 \*\*\*  
## Colour:THIregime 5 4.315 0.863 1.8189 0.1471   
## Residuals 24 11.387 0.474   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4744718   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.23002 0.7301801 6 56.1 58.15038  
## BLK 58.20449 0.6601533 6 57.3 58.92874  
## BRN 55.78674 1.5740452 6 53.6 57.66989  
## WHT 55.55264 1.5580541 6 53.2 57.18048  
## WT/BLK 55.30387 1.1485509 6 53.7 56.59534  
## WT/BR 53.63890 1.7627275 6 51.3 55.74969  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.22963   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BLK 58.20449 a  
## BL/BR 57.23002 a  
## BRN 55.78674 b  
## WHT 55.55264 b  
## WT/BLK 55.30387 b  
## WT/BR 53.63890 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.4744718   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 56.95000 1.271036 18 54.62215 58.92874  
## AftLow 54.95556 1.943684 18 51.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4738842   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 56.95000 a  
## AftLow 54.95556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.4744718 24 55.95278 1.231072 2.027872  
##   
## $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 57.76004 0.4584078 3 57.25525 58.15038 57.56488 57.87451  
## BL/BR:AftLow 56.70000 0.5291503 3 56.10000 57.10000 56.50000 56.90000  
## BLK:AftHigh 58.77565 0.1658744 3 58.59942 58.92874 58.69910 58.79877  
## BLK:AftLow 57.63333 0.2886751 3 57.30000 57.80000 57.55000 57.80000  
## BRN:AftHigh 57.04014 0.5810632 3 56.52478 57.66989 56.72527 56.92576  
## BRN:AftLow 54.53333 1.0692677 3 53.60000 55.70000 53.95000 54.30000  
## WHT:AftHigh 56.83862 0.4942511 3 56.27192 57.18048 56.66769 57.06347  
## WHT:AftLow 54.26667 0.9291573 3 53.20000 54.90000 53.95000 54.70000  
## WT/BLK:AftHigh 56.24107 0.5652914 3 55.58915 56.59534 56.06393 56.53872  
## WT/BLK:AftLow 54.36667 0.5859465 3 53.70000 54.80000 54.15000 54.60000  
## WT/BR:AftHigh 55.04446 0.6147108 3 54.62215 55.74969 54.69184 54.76154  
## WT/BR:AftLow 52.23333 1.2096832 3 51.30000 53.60000 51.55000 51.80000  
## Q75  
## BL/BR:AftHigh 58.01244  
## BL/BR:AftLow 57.00000  
## BLK:AftHigh 58.86376  
## BLK:AftLow 57.80000  
## BRN:AftHigh 57.29783  
## BRN:AftLow 55.00000  
## WHT:AftHigh 57.12197  
## WHT:AftLow 54.80000  
## WT/BLK:AftHigh 56.56703  
## WT/BLK:AftLow 54.70000  
## WT/BR:AftHigh 55.25561  
## WT/BR:AftLow 52.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BLK:AftHigh 58.77565 a  
## BL/BR:AftHigh 57.76004 ab  
## BLK:AftLow 57.63333 ab  
## BRN:AftHigh 57.04014 abc  
## WHT:AftHigh 56.83862 abc  
## BL/BR:AftLow 56.70000 bc  
## WT/BLK:AftHigh 56.24107 bcd  
## WT/BR:AftHigh 55.04446 cd  
## BRN:AftLow 54.53333 d  
## WT/BLK:AftLow 54.36667 d  
## WHT:AftLow 54.26667 d  
## WT/BR:AftLow 52.23333 e  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT86 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 9.247 1.849 12.3968 5.189e-06 \*\*\*  
## THIregime 1 65.099 65.099 436.3575 < 2.2e-16 \*\*\*  
## Colour:THIregime 5 0.673 0.135 0.9027 0.4954   
## Residuals 24 3.580 0.149   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.1491866   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.61384 1.322096 6 54.8 57.95581  
## BLK 56.22308 1.392502 6 54.6 57.76785  
## BRN 55.91220 1.523996 6 54.2 57.37753  
## WHT 55.07146 1.731920 6 53.2 56.74235  
## WT/BLK 56.42845 1.486213 6 54.7 58.00228  
## WT/BR 55.75267 1.628672 6 53.6 57.48655  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.6894997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 56.61384 a  
## WT/BLK 56.42845 ab  
## BLK 56.22308 ab  
## BRN 55.91220 b  
## WT/BR 55.75267 bc  
## WHT 55.07146 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.1491866   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.34501 0.4561087 18 56.47927 58.00228  
## AftLow 54.65556 0.7656003 18 53.20000 55.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.2657247   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.34501 a  
## AftLow 54.65556 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.1491866 24 56.00028 0.6897229 1.137104  
##   
## $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 57.76101 0.2974789 3 57.41860 57.95581 57.66361 57.90863  
## BL/BR:AftLow 55.46667 0.5773503 3 54.80000 55.80000 55.30000 55.80000  
## BLK:AftHigh 57.44617 0.2825930 3 57.23792 57.76785 57.28532 57.33272  
## BLK:AftLow 55.00000 0.5291503 3 54.60000 55.60000 54.70000 54.80000  
## BRN:AftHigh 57.29107 0.1386829 3 57.13111 57.37753 57.24785 57.36458  
## BRN:AftLow 54.53333 0.2886751 3 54.20000 54.70000 54.45000 54.70000  
## WHT:AftHigh 56.64292 0.1428141 3 56.47927 56.74235 56.59321 56.70714  
## WHT:AftLow 53.50000 0.2645751 3 53.20000 53.70000 53.40000 53.60000  
## WT/BLK:AftHigh 57.75690 0.2602709 3 57.48393 58.00228 57.63421 57.78449  
## WT/BLK:AftLow 55.10000 0.4000000 3 54.70000 55.50000 54.90000 55.10000  
## WT/BR:AftHigh 57.17201 0.4177521 3 56.69802 57.48655 57.01475 57.33148  
## WT/BR:AftLow 54.33333 0.6429101 3 53.60000 54.80000 54.10000 54.60000  
## Q75  
## BL/BR:AftHigh 57.93222  
## BL/BR:AftLow 55.80000  
## BLK:AftHigh 57.55029  
## BLK:AftLow 55.20000  
## BRN:AftHigh 57.37105  
## BRN:AftLow 54.70000  
## WHT:AftHigh 56.72475  
## WHT:AftLow 53.65000  
## WT/BLK:AftHigh 57.89338  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 57.40901  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 57.76101 a  
## WT/BLK:AftHigh 57.75690 a  
## BLK:AftHigh 57.44617 a  
## BRN:AftHigh 57.29107 a  
## WT/BR:AftHigh 57.17201 a  
## WHT:AftHigh 56.64292 a  
## BL/BR:AftLow 55.46667 b  
## WT/BLK:AftLow 55.10000 b  
## BLK:AftLow 55.00000 b  
## BRN:AftLow 54.53333 bc  
## WT/BR:AftLow 54.33333 bc  
## WHT:AftLow 53.50000 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 70.565 14.113 3.7281 0.0122391 \*   
## THIregime 1 70.590 70.590 18.6469 0.0002352 \*\*\*  
## Colour:THIregime 5 4.009 0.802 0.2118 0.9541700   
## Residuals 24 90.854 3.786   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.785587   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.28887 1.872000 6 53.6 58.37514  
## BLK 58.11002 1.198799 6 56.1 59.33833  
## BRN 56.67822 1.616668 6 54.3 58.43039  
## WHT 55.35078 1.845955 6 53.6 57.10824  
## WT/BLK 59.56518 4.231276 6 54.8 64.70000  
## WT/BR 56.20870 2.055259 6 53.7 58.26363  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.473248   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BLK 59.56518 a  
## BLK 58.11002 ab  
## BRN 56.67822 ab  
## BL/BR 56.28887 ab  
## WT/BR 56.20870 ab  
## WHT 55.35078 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 3.785587   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 58.43392 1.695456 18 56.94526 64.60572  
## AftLow 55.63333 2.618486 18 53.60000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.338547   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 58.43392 a  
## AftLow 55.63333 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 3.785587 24 57.03363 3.411423 5.727988  
##   
## $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 57.84440 0.53718651 3 57.30099 58.37514 57.57903 57.85708  
## BL/BR:AftLow 54.73333 1.10151411 3 53.60000 55.80000 54.20000 54.80000  
## BLK:AftHigh 58.98670 0.56011515 3 58.34079 59.33833 58.81089 59.28100  
## BLK:AftLow 57.23333 0.98657657 3 56.10000 57.90000 56.90000 57.70000  
## BRN:AftHigh 58.02311 0.49450532 3 57.47288 58.43039 57.81947 58.16606  
## BRN:AftLow 55.33333 0.92915732 3 54.30000 56.10000 54.95000 55.60000  
## WHT:AftHigh 57.03489 0.08270066 3 56.94526 57.10824 56.99821 57.05117  
## WHT:AftLow 53.66667 0.05773503 3 53.60000 53.70000 53.65000 53.70000  
## WT/BLK:AftHigh 60.66369 3.41990065 3 58.49013 64.60572 58.69268 58.89522  
## WT/BLK:AftLow 58.46667 5.42617115 3 54.80000 64.70000 55.35000 55.90000  
## WT/BR:AftHigh 58.05073 0.19404123 3 57.88380 58.26363 57.94428 58.00477  
## WT/BR:AftLow 54.36667 0.58594653 3 53.70000 54.80000 54.15000 54.60000  
## Q75  
## BL/BR:AftHigh 58.11611  
## BL/BR:AftLow 55.30000  
## BLK:AftHigh 59.30966  
## BLK:AftLow 57.80000  
## BRN:AftHigh 58.29822  
## BRN:AftLow 55.85000  
## WHT:AftHigh 57.07970  
## WHT:AftLow 53.70000  
## WT/BLK:AftHigh 61.75047  
## WT/BLK:AftLow 60.30000  
## WT/BR:AftHigh 58.13420  
## WT/BR:AftLow 54.70000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BLK:AftHigh 60.66369 a  
## BLK:AftHigh 58.98670 ab  
## WT/BLK:AftLow 58.46667 ab  
## WT/BR:AftHigh 58.05073 ab  
## BRN:AftHigh 58.02311 ab  
## BL/BR:AftHigh 57.84440 ab  
## BLK:AftLow 57.23333 ab  
## WHT:AftHigh 57.03489 ab  
## BRN:AftLow 55.33333 ab  
## BL/BR:AftLow 54.73333 b  
## WT/BR:AftLow 54.36667 b  
## WHT:AftLow 53.66667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT88 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 35.776 7.155 9.1901 5.453e-05 \*\*\*  
## THIregime 1 64.180 64.180 82.4332 3.131e-09 \*\*\*  
## Colour:THIregime 5 2.802 0.560 0.7197 0.6151   
## Residuals 24 18.686 0.779   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7785673   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 56.43362 2.182638 6 53.7 59.23498  
## BLK 55.46498 1.569820 6 53.7 57.16347  
## BRN 54.75036 2.114964 6 51.6 56.94615  
## WHT 55.30294 1.612492 6 53.7 56.83709  
## WT/BLK 56.21713 1.346563 6 54.2 57.86289  
## WT/BR 57.84220 1.009314 6 56.8 58.96803  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.575133   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## WT/BR 57.84220 a  
## BL/BR 56.43362 ab  
## WT/BLK 56.21713 bc  
## BLK 55.46498 bc  
## WHT 55.30294 bc  
## BRN 54.75036 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7785673   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.33708 0.9586376 18 55.66755 59.23498  
## AftLow 54.66667 1.5650597 18 51.60000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.607037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.33708 a  
## AftLow 54.66667 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7785673 24 56.00187 1.575598 2.597667  
##   
## $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 57.86725 1.18909463 3 57.07884 59.23498 57.18338 57.28792  
## BL/BR:AftLow 55.00000 2.08086520 3 53.70000 57.40000 53.80000 53.90000  
## BLK:AftHigh 56.86329 0.26769372 3 56.64932 57.16347 56.71321 56.77710  
## BLK:AftLow 54.06667 0.47258156 3 53.70000 54.60000 53.80000 53.90000  
## BRN:AftHigh 56.50071 0.72211551 3 55.66755 56.94615 56.27799 56.88843  
## BRN:AftLow 53.00000 1.21243557 3 51.60000 53.70000 52.65000 53.70000  
## WHT:AftHigh 56.77255 0.08801179 3 56.67230 56.83709 56.74028 56.80827  
## WHT:AftLow 53.83333 0.11547005 3 53.70000 53.90000 53.80000 53.90000  
## WT/BLK:AftHigh 57.26759 0.67773930 3 56.53001 57.86289 56.96994 57.40988  
## WT/BLK:AftLow 55.16667 0.87368949 3 54.20000 55.90000 54.80000 55.40000  
## WT/BR:AftHigh 58.75107 0.21293484 3 58.54240 58.96803 58.64258 58.74277  
## WT/BR:AftLow 56.93333 0.15275252 3 56.80000 57.10000 56.85000 56.90000  
## Q75  
## BL/BR:AftHigh 58.26145  
## BL/BR:AftLow 55.65000  
## BLK:AftHigh 56.97028  
## BLK:AftLow 54.25000  
## BRN:AftHigh 56.91729  
## BRN:AftLow 53.70000  
## WHT:AftHigh 56.82268  
## WHT:AftLow 53.90000  
## WT/BLK:AftHigh 57.63639  
## WT/BLK:AftLow 55.65000  
## WT/BR:AftHigh 58.85540  
## WT/BR:AftLow 57.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## WT/BR:AftHigh 58.75107 a  
## BL/BR:AftHigh 57.86725 a  
## WT/BLK:AftHigh 57.26759 ab  
## WT/BR:AftLow 56.93333 ab  
## BLK:AftHigh 56.86329 ab  
## WHT:AftHigh 56.77255 ab  
## BRN:AftHigh 56.50071 abc  
## WT/BLK:AftLow 55.16667 bcd  
## BL/BR:AftLow 55.00000 bcd  
## BLK:AftLow 54.06667 cd  
## WHT:AftLow 53.83333 d  
## BRN:AftLow 53.00000 d  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT89 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 40.226 8.045 2.8470 0.03716 \*   
## THIregime 1 63.543 63.543 22.4866 8.002e-05 \*\*\*  
## Colour:THIregime 5 3.954 0.791 0.2799 0.91958   
## Residuals 24 67.819 2.826   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.825798   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 57.69387 1.225572 6 56.2 58.91482  
## BLK 56.91372 1.392724 6 55.4 58.39057  
## BRN 56.73380 3.599640 6 50.1 59.65749  
## WHT 54.57883 2.619998 6 51.4 57.89229  
## WT/BLK 56.02799 1.536508 6 53.8 57.88903  
## WT/BR 57.58983 1.199532 6 55.8 58.93816  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.000819   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 57.69387 a  
## WT/BR 57.58983 a  
## BLK 56.91372 ab  
## BRN 56.73380 ab  
## WT/BLK 56.02799 ab  
## WHT 54.57883 b  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 2.825798   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.91823 1.240887 18 55.32176 59.65749  
## AftLow 55.26111 2.246864 18 50.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.156479   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.91823 a  
## AftLow 55.26111 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 2.825798 24 56.58967 2.970526 4.94887  
##   
## $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 58.78773 0.1882697 3 58.57144 58.91482 58.72418 58.87693  
## BL/BR:AftLow 56.60000 0.3605551 3 56.20000 56.90000 56.45000 56.70000  
## BLK:AftHigh 58.16078 0.2010266 3 58.01743 58.39057 58.04589 58.07435  
## BLK:AftLow 55.66667 0.3785939 3 55.40000 56.10000 55.45000 55.50000  
## BRN:AftHigh 58.13426 2.4385009 3 55.32176 59.65749 57.37264 59.42352  
## BRN:AftLow 55.33333 4.5346812 3 50.10000 58.10000 53.95000 57.80000  
## WHT:AftHigh 56.59099 1.1274906 3 55.90567 57.89229 55.94034 55.97502  
## WHT:AftLow 52.56667 1.9347696 3 51.40000 54.80000 51.45000 51.50000  
## WT/BLK:AftHigh 57.25598 0.6150420 3 56.66068 57.88903 56.93945 57.21823  
## WT/BLK:AftLow 54.80000 1.0000000 3 53.80000 55.80000 54.30000 54.80000  
## WT/BR:AftHigh 58.57965 0.4097845 3 58.13295 58.93816 58.40040 58.66785  
## WT/BR:AftLow 56.60000 0.7000000 3 55.80000 57.10000 56.35000 56.90000  
## Q75  
## BL/BR:AftHigh 58.89588  
## BL/BR:AftLow 56.80000  
## BLK:AftHigh 58.23246  
## BLK:AftLow 55.80000  
## BRN:AftHigh 59.54051  
## BRN:AftLow 57.95000  
## WHT:AftHigh 56.93366  
## WHT:AftLow 53.15000  
## WT/BLK:AftHigh 57.55363  
## WT/BLK:AftLow 55.30000  
## WT/BR:AftHigh 58.80300  
## WT/BR:AftLow 57.00000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 58.78773 a  
## WT/BR:AftHigh 58.57965 a  
## BLK:AftHigh 58.16078 a  
## BRN:AftHigh 58.13426 a  
## WT/BLK:AftHigh 57.25598 ab  
## BL/BR:AftLow 56.60000 ab  
## WT/BR:AftLow 56.60000 ab  
## WHT:AftHigh 56.59099 ab  
## BLK:AftLow 55.66667 ab  
## BRN:AftLow 55.33333 ab  
## WT/BLK:AftLow 54.80000 ab  
## WHT:AftLow 52.56667 b  
##   
## attr(,"class")  
## [1] "group"  
## [1] "---- PULRAT90 ----"  
## Analysis of Variance Table  
##   
## Response: data2[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 109.263 21.853 30.1010 1.355e-09 \*\*\*  
## THIregime 1 49.681 49.681 68.4333 1.736e-08 \*\*\*  
## Colour:THIregime 5 8.917 1.783 2.4567 0.06215 .   
## Residuals 24 17.423 0.726   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7259743   
##   
## Colour, means  
##   
## data2..i.. std r Min Max  
## BL/BR 58.27796 0.9217991 6 57.2 59.27999  
## BLK 57.28925 1.6804524 6 54.2 58.72421  
## BRN 52.77703 2.4757924 6 50.2 55.38208  
## WHT 55.83881 1.6169509 6 53.1 57.53185  
## WT/BLK 55.79504 1.2021147 6 54.6 56.97430  
## WT/BR 57.03703 1.1582504 6 55.6 58.52747  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.521002   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## BL/BR 58.27796 a  
## BLK 57.28925 ab  
## WT/BR 57.03703 ab  
## WHT 55.83881 b  
## WT/BLK 55.79504 b  
## BRN 52.77703 c  
##   
## Study: THIregime  
##   
## HSD Test for data2[[i]]   
##   
## Mean Square Error: 0.7259743   
##   
## THIregime, means  
##   
## data2..i.. std r Min Max  
## AftHigh 57.34393 1.401973 18 54.83496 59.27999  
## AftLow 54.99444 2.451763 18 50.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5861755   
##   
## Treatments with the same letter are not significantly different.  
##   
## data2[[i]] groups  
## AftHigh 57.34393 a  
## AftLow 54.99444 b  
## $statistics  
## MSerror Df Mean CV MSD  
## 0.7259743 24 56.16919 1.516919 2.508396  
##   
## $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 59.08925 0.23741580 3 58.82335 59.27999 58.99388 59.16441  
## BL/BR:AftLow 57.46667 0.30550505 3 57.20000 57.80000 57.30000 57.40000  
## BLK:AftHigh 58.07849 1.10502099 3 56.80256 58.72421 57.75563 58.70871  
## BLK:AftLow 56.50000 1.99248588 3 54.20000 57.70000 55.90000 57.60000  
## BRN:AftHigh 55.02074 0.31297079 3 54.83496 55.38208 54.84007 54.84517  
## BRN:AftLow 50.53333 0.35118846 3 50.20000 50.90000 50.35000 50.50000  
## WHT:AftHigh 57.01096 0.74243030 3 56.16085 57.53185 56.75052 57.34019  
## WHT:AftLow 54.66667 1.36503968 3 53.10000 55.60000 54.20000 55.30000  
## WT/BLK:AftHigh 56.89009 0.07306037 3 56.84363 56.97430 56.84798 56.85234  
## WT/BLK:AftLow 54.70000 0.10000000 3 54.60000 54.80000 54.65000 54.70000  
## WT/BR:AftHigh 57.97407 0.47933612 3 57.68866 58.52747 57.69737 57.70608  
## WT/BR:AftLow 56.10000 0.70000000 3 55.60000 56.90000 55.70000 55.80000  
## Q75  
## BL/BR:AftHigh 59.22220  
## BL/BR:AftLow 57.60000  
## BLK:AftHigh 58.71646  
## BLK:AftLow 57.65000  
## BRN:AftHigh 55.11362  
## BRN:AftLow 50.70000  
## WHT:AftHigh 57.43602  
## WHT:AftLow 55.45000  
## WT/BLK:AftHigh 56.91332  
## WT/BLK:AftLow 54.75000  
## WT/BR:AftHigh 58.11677  
## WT/BR:AftLow 56.35000  
##   
## $comparison  
## NULL  
##   
## $groups  
## data2[[i]] groups  
## BL/BR:AftHigh 59.08925 a  
## BLK:AftHigh 58.07849 ab  
## WT/BR:AftHigh 57.97407 ab  
## BL/BR:AftLow 57.46667 abc  
## WHT:AftHigh 57.01096 abcd  
## WT/BLK:AftHigh 56.89009 abcd  
## BLK:AftLow 56.50000 bcd  
## WT/BR:AftLow 56.10000 bcd  
## BRN:AftHigh 55.02074 cd  
## WT/BLK:AftLow 54.70000 d  
## WHT:AftLow 54.66667 d  
## BRN:AftLow 50.53333 e  
##   
## attr(,"class")  
## [1] "group"

# Rectal Temperature (Sheet three)

# Fit the Third model for Rectal Temperature

## [1] "---- RESPRT1 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 425.25 85.051 88.9058 1.101e-14 \*\*\*  
## THIregime 1 135.61 135.610 141.7568 1.470e-11 \*\*\*  
## Colour:THIregime 5 7.24 1.448 1.5137 0.2228   
## Residuals 24 22.96 0.957   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9566379   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.74739 2.386508 6 49.3 54.40654  
## BLK 49.17870 2.137449 6 46.1 51.77219  
## BRN 50.02553 2.529437 6 46.5 52.63962  
## WHT 47.08083 2.944958 6 44.1 50.01912  
## WT/BLK 57.24800 2.150314 6 53.7 59.77075  
## WT/BR 54.79806 1.789723 6 53.1 56.54569  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.745995   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.24800 a  
## WT/BR 54.79806 b  
## BL/BR 51.74739 c  
## BRN 50.02553 cd  
## BLK 49.17870 d  
## WHT 47.08083 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9566379   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.62061 3.215132 18 49.59193 59.77075  
## AftLow 49.73889 4.056388 18 44.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.672885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.62061 a  
## AftLow 49.73889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT2 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 303.970 60.794 13.1145 3.243e-06 \*\*\*  
## THIregime 1 67.348 67.348 14.5283 0.000847 \*\*\*  
## Colour:THIregime 5 21.320 4.264 0.9198 0.485131   
## Residuals 24 111.256 4.636   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.635652   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.07512 3.2835042 6 49.3 58.07720  
## BLK 52.68843 2.7893592 6 47.6 54.83598  
## BRN 50.05302 2.4577121 6 47.4 52.52015  
## WHT 47.47564 2.9066968 6 44.6 50.30834  
## WT/BLK 53.67241 2.4394517 6 49.6 55.88970  
## WT/BR 55.87531 0.9913321 6 54.6 56.98475  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.84348   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.87531 a  
## BL/BR 55.07512 a  
## WT/BLK 53.67241 ab  
## BLK 52.68843 ab  
## BRN 50.05302 bc  
## WHT 47.47564 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.635652   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.84109 2.629208 18 49.8075 58.0772  
## AftLow 51.10556 4.332025 18 44.6000 57.5000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.48123   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.84109 a  
## AftLow 51.10556 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT3 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 156.576 31.315 8.5913 8.933e-05 \*\*\*  
## THIregime 1 47.256 47.256 12.9648 0.001435 \*\*   
## Colour:THIregime 5 12.107 2.421 0.6643 0.654022   
## Residuals 24 87.479 3.645   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.644978   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 50.94216 1.8381346 6 49.1 52.65549  
## BLK 53.60855 1.3058245 6 52.1 54.92332  
## BRN 57.12199 0.6386825 6 56.2 57.83302  
## WHT 51.06598 3.6539371 6 44.5 54.83123  
## WT/BLK 52.46638 3.0440693 6 49.3 56.15105  
## WT/BR 53.80260 1.1221134 6 52.5 55.24939  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.408134   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.12199 a  
## WT/BR 53.80260 ab  
## BLK 53.60855 b  
## WT/BLK 52.46638 b  
## WHT 51.06598 b  
## BL/BR 50.94216 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.644978   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.31367 1.990439 18 50.78031 57.83302  
## AftLow 52.02222 3.332647 18 44.50000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.313453   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.31367 a  
## AftLow 52.02222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT4 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.761 55.752 72.3393 1.118e-13 \*\*\*  
## THIregime 1 92.377 92.377 119.8607 8.145e-11 \*\*\*  
## Colour:THIregime 5 19.509 3.902 5.0626 0.002622 \*\*   
## Residuals 24 18.497 0.771   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7707045   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.08343 2.284834 6 50.3 56.04651  
## BLK 50.58348 2.293967 6 48.1 52.76894  
## BRN 57.60819 1.180716 6 55.5 58.68876  
## WHT 49.41669 3.133197 6 45.9 52.76330  
## WT/BLK 55.16059 1.452560 6 53.5 56.79136  
## WT/BR 54.72559 1.507614 6 52.6 56.27239  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.567159   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.60819 a  
## WT/BLK 55.16059 b  
## WT/BR 54.72559 b  
## BL/BR 53.08343 c  
## BLK 50.58348 d  
## WHT 49.41669 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7707045   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03155 2.196400 18 51.65147 58.68876  
## AftLow 51.82778 3.716071 18 45.90000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6039639   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03155 a  
## AftLow 51.82778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT5 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 131.338 26.268 55.4466 2.116e-12 \*\*\*  
## THIregime 1 81.281 81.281 171.5704 1.997e-12 \*\*\*  
## Colour:THIregime 5 8.706 1.741 3.6754 0.01305 \*   
## Residuals 24 11.370 0.474   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4737463   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.89133 1.926101 6 50.4 54.95319  
## BLK 54.29766 1.204428 6 52.6 55.52665  
## BRN 55.53882 1.079623 6 54.3 56.60037  
## WHT 50.28180 2.793679 6 47.1 53.46299  
## WT/BLK 56.12739 1.479221 6 54.4 57.87596  
## WT/BR 53.87859 1.988090 6 51.3 56.15291  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.228689   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.12739 a  
## BRN 55.53882 a  
## BLK 54.29766 b  
## WT/BR 53.87859 bc  
## BL/BR 52.89133 c  
## WHT 50.28180 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4737463   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.33853 1.569077 18 52.14223 57.87596  
## AftLow 52.33333 2.538643 18 47.10000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4735218   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.33853 a  
## AftLow 52.33333 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT6 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 107.188 21.438 9.2299 5.281e-05 \*\*\*  
## THIregime 1 78.053 78.053 33.6057 5.624e-06 \*\*\*  
## Colour:THIregime 5 7.970 1.594 0.6863 0.6385   
## Residuals 24 55.743 2.323   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.322629   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.05441 1.5911574 6 52.2 55.94197  
## BLK 50.98123 2.4534777 6 47.3 53.42707  
## BRN 56.43116 0.8894432 6 55.4 57.30400  
## WHT 53.06449 2.0970069 6 50.2 55.38007  
## WT/BLK 53.37470 3.6475584 6 49.2 58.54240  
## WT/BR 55.29548 1.1439729 6 53.6 56.43418  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.720565   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.43116 a  
## WT/BR 55.29548 ab  
## BL/BR 54.05441 ab  
## WT/BLK 53.37470 bc  
## WHT 53.06449 bc  
## BLK 50.98123 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.322629   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.33937 1.690651 18 52.24262 58.5424  
## AftLow 52.39444 2.682289 18 47.30000 55.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.048472   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.33937 a  
## AftLow 52.39444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT7 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 287.152 57.430 16.5504 4.266e-07 \*\*\*  
## THIregime 1 119.508 119.508 34.4400 4.711e-06 \*\*\*  
## Colour:THIregime 5 8.204 1.641 0.4729 0.7927   
## Residuals 24 83.281 3.470   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.470026   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.12244 1.757420 6 53.7 58.18958  
## BLK 51.92472 2.943059 6 47.3 55.41756  
## BRN 54.30213 2.152062 6 51.4 56.88986  
## WHT 49.45541 4.083036 6 44.3 54.41597  
## WT/BLK 57.85382 2.426506 6 53.6 60.28473  
## WT/BR 55.97344 1.804979 6 53.7 57.80191  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.325336   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.85382 a  
## BL/BR 56.12244 ab  
## WT/BR 55.97344 ab  
## BRN 54.30213 bc  
## BLK 51.92472 cd  
## WHT 49.45541 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.470026   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.09398 2.698715 18 51.19385 60.28473  
## AftLow 52.45000 3.871654 18 44.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.281544   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.09398 a  
## AftLow 52.45000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT8 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 266.526 53.305 11.7503 8.051e-06 \*\*\*  
## THIregime 1 68.957 68.957 15.2005 0.0006802 \*\*\*  
## Colour:THIregime 5 24.979 4.996 1.1012 0.3856199   
## Residuals 24 108.876 4.536   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.536487   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.48498 1.417396 6 54.4 58.10000  
## BLK 51.09910 2.305151 6 47.3 53.73356  
## BRN 54.29690 3.593421 6 47.7 57.07482  
## WHT 47.68911 3.279193 6 44.6 50.91425  
## WT/BLK 52.95232 2.561516 6 50.2 56.16412  
## WT/BR 52.48163 1.735624 6 50.4 54.71624  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.802148   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.48498 a  
## BRN 54.29690 ab  
## WT/BLK 52.95232 ab  
## WT/BR 52.48163 b  
## BLK 51.09910 bc  
## WHT 47.68911 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.536487   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.88468 2.384947 18 50.39699 57.82224  
## AftLow 51.11667 4.226562 18 44.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.465301   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.88468 a  
## AftLow 51.11667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT9 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 325.19 65.037 20.5939 5.660e-08 \*\*\*  
## THIregime 1 103.78 103.776 32.8604 6.602e-06 \*\*\*  
## Colour:THIregime 5 22.57 4.515 1.4296 0.2496   
## Residuals 24 75.79 3.158   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.158086   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.78896 2.6915100 6 49.5 56.11185  
## BLK 49.93056 2.5011348 6 46.7 52.92338  
## BRN 56.87486 0.7097803 6 56.1 57.63987  
## WHT 47.72350 3.5005111 6 44.2 50.99592  
## WT/BLK 53.76611 2.7430430 6 49.2 56.63455  
## WT/BR 54.50306 2.5782298 6 50.1 57.26179  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.17235   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.87486 a  
## WT/BR 54.50306 ab  
## WT/BLK 53.76611 ab  
## BL/BR 52.78896 bc  
## BLK 49.93056 cd  
## WHT 47.72350 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.158086   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.29568 2.536024 18 50.75417 57.63987  
## AftLow 50.90000 4.299248 18 44.20000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.222585   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.29568 a  
## AftLow 50.90000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT10 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 322.50 64.500 77.7438 4.992e-14 \*\*\*  
## THIregime 1 80.50 80.499 97.0277 6.594e-10 \*\*\*  
## Colour:THIregime 5 24.54 4.909 5.9165 0.001063 \*\*   
## Residuals 24 19.91 0.830   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8296543   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.66334 2.1695180 6 49.3 54.14519  
## BLK 50.49763 2.2483886 6 47.3 52.97565  
## BRN 57.58964 0.4185268 6 57.1 58.06152  
## WHT 48.89728 3.1749713 6 45.7 52.33860  
## WT/BLK 54.47775 1.9435931 6 51.3 56.80442  
## WT/BR 55.37984 1.0934515 6 54.2 56.53872  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.62599   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.58964 a  
## WT/BR 55.37984 b  
## WT/BLK 54.47775 b  
## BL/BR 51.66334 c  
## BLK 50.49763 cd  
## WHT 48.89728 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8296543   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.57961 2.331868 18 51.36689 58.06152  
## AftLow 51.58889 4.018470 18 45.70000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6266364   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.57961 a  
## AftLow 51.58889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT11 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 209.759 41.952 9.9526 2.989e-05 \*\*\*  
## THIregime 1 94.821 94.821 22.4954 7.984e-05 \*\*\*  
## Colour:THIregime 5 7.392 1.478 0.3508 0.8767   
## Residuals 24 101.163 4.215   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.215146   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.55881 1.676653 6 53.5 57.28792  
## BLK 51.06558 2.406709 6 47.3 53.61084  
## BRN 51.76303 4.615206 6 46.2 57.55731  
## WHT 52.16601 2.048522 6 50.2 54.13635  
## WT/BLK 56.23534 2.234791 6 52.3 58.67308  
## WT/BR 57.24885 1.257464 6 55.7 58.72012  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.665013   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.24885 a  
## WT/BLK 56.23534 a  
## BL/BR 55.55881 ab  
## WHT 52.16601 bc  
## BRN 51.76303 c  
## BLK 51.06558 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.215146   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.62921 2.385617 18 52.09577 58.72012  
## AftLow 52.38333 3.610157 18 46.20000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.412451   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.62921 a  
## AftLow 52.38333 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT12 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 295.685 59.137 23.0478 1.923e-08 \*\*\*  
## THIregime 1 67.073 67.073 26.1407 3.124e-05 \*\*\*  
## Colour:THIregime 5 24.181 4.836 1.8849 0.1345   
## Residuals 24 61.580 2.566   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.565837   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.97250 1.3562431 6 54.4 57.51660  
## BLK 50.22843 2.9786282 6 46.3 53.72406  
## BRN 57.55058 1.3052939 6 55.4 58.98468  
## WHT 51.83261 3.9875516 6 44.6 55.64722  
## WT/BLK 53.70158 1.4339663 6 51.3 55.49767  
## WT/BR 57.93745 0.4411757 6 57.3 58.64694  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.859458   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.93745 a  
## BRN 57.55058 a  
## BL/BR 55.97250 ab  
## WT/BLK 53.70158 bc  
## WHT 51.83261 cd  
## BLK 50.22843 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.565837   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.90216 2.413812 18 51.79275 58.98468  
## AftLow 53.17222 4.075725 18 44.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.102   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.90216 a  
## AftLow 53.17222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT13 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 202.355 40.471 16.1219 5.398e-07 \*\*\*  
## THIregime 1 58.811 58.811 23.4278 6.235e-05 \*\*\*  
## Colour:THIregime 5 18.165 3.633 1.4472 0.2438   
## Residuals 24 60.248 2.510   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.510318   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.45120 0.7530507 6 55.3 57.17031  
## BLK 51.84062 2.9014334 6 47.3 55.26757  
## BRN 54.53899 2.2912136 6 50.4 56.68480  
## WHT 49.61098 2.8926202 6 46.4 52.56402  
## WT/BLK 52.01753 2.0881217 6 49.2 54.68749  
## WT/BR 55.50954 0.6944126 6 54.6 56.39062  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.828353   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.45120 a  
## WT/BR 55.50954 a  
## BRN 54.53899 ab  
## WT/BLK 52.01753 bc  
## BLK 51.84062 bc  
## WHT 49.61098 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.510318   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.60628 2.071696 18 51.72116 57.17031  
## AftLow 52.05000 3.496259 18 46.40000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.090012   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.60628 a  
## AftLow 52.05000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT14 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 389.38 77.876 25.4908 7.172e-09 \*\*\*  
## THIregime 1 66.89 66.888 21.8944 9.390e-05 \*\*\*  
## Colour:THIregime 5 23.99 4.798 1.5705 0.2063   
## Residuals 24 73.32 3.055   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.055046   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.14004 0.7425125 6 57.1 59.04942  
## BLK 50.29282 2.4359829 6 47.3 53.13246  
## BRN 53.98340 3.3883594 6 47.9 57.32526  
## WHT 49.43346 3.0492123 6 45.3 52.53135  
## WT/BLK 53.01197 2.1825238 6 49.9 55.74596  
## WT/BR 57.55019 0.9013007 6 56.1 58.46773  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.120168   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.14004 a  
## WT/BR 57.55019 a  
## BRN 53.98340 b  
## WT/BLK 53.01197 bc  
## BLK 50.29282 cd  
## WHT 49.43346 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.055046   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.09840 2.811033 18 51.50228 59.04942  
## AftLow 52.37222 4.552673 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.202475   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.09840 a  
## AftLow 52.37222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT15 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 157.442 31.488 18.6078 1.464e-07 \*\*\*  
## THIregime 1 91.227 91.227 53.9098 1.392e-07 \*\*\*  
## Colour:THIregime 5 8.042 1.608 0.9505 0.467   
## Residuals 24 40.613 1.692   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.692215   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.21091 2.134262 6 50.2 54.30200  
## BLK 51.74468 2.830761 6 47.3 55.07894  
## BRN 55.42129 1.120360 6 54.1 56.62449  
## WHT 50.16220 2.689730 6 47.2 52.94624  
## WT/BLK 55.33327 2.198552 6 51.5 57.78449  
## WT/BR 55.34559 1.443839 6 53.7 56.94294  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.322186   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 55.42129 a  
## WT/BR 55.34559 a  
## WT/BLK 55.33327 a  
## BL/BR 52.21091 b  
## BLK 51.74468 b  
## WHT 50.16220 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.692215   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.96154 1.891560 18 51.7921 57.78449  
## AftLow 51.77778 2.923245 18 47.2000 55.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8949418   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.96154 a  
## AftLow 51.77778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT16 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.95 82.191 47.3232 1.181e-11 \*\*\*  
## THIregime 1 116.62 116.625 67.1495 2.058e-08 \*\*\*  
## Colour:THIregime 5 22.29 4.458 2.5666 0.05371 .   
## Residuals 24 41.68 1.737   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.73679   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.54485 2.770361 6 52.1 59.10430  
## BLK 50.50338 2.650924 6 47.3 53.55299  
## BRN 57.47455 1.147033 6 56.3 58.63997  
## WHT 48.92617 3.895866 6 44.3 53.22248  
## WT/BLK 56.90931 1.732214 6 54.3 59.01283  
## WT/BR 56.90769 1.386640 6 55.4 58.38559  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.352572   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 57.47455 a  
## WT/BLK 56.90931 a  
## WT/BR 56.90769 a  
## BL/BR 55.54485 a  
## BLK 50.50338 b  
## WHT 48.92617 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.73679   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.17754 2.808104 18 51.52592 59.1043  
## AftLow 52.57778 4.477861 18 44.30000 57.3000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9066523   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.17754 a  
## AftLow 52.57778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT17 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 325.26 65.052 13.7401 2.184e-06 \*\*\*  
## THIregime 1 105.71 105.715 22.3288 8.349e-05 \*\*\*  
## Colour:THIregime 5 19.93 3.987 0.8421 0.5333   
## Residuals 24 113.63 4.734   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.734461   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.77568 2.103546 6 51.3 56.32383  
## BLK 50.51113 2.294124 6 47.3 53.05405  
## BRN 54.67763 4.182018 6 47.4 58.53543  
## WHT 47.88124 3.477779 6 43.6 51.26457  
## WT/BLK 54.08662 2.403601 6 50.1 57.18338  
## WT/BR 57.14946 1.675022 6 54.2 58.66934  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.884226   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.14946 a  
## BRN 54.67763 a  
## WT/BLK 54.08662 ab  
## BL/BR 53.77568 ab  
## BLK 50.51113 bc  
## WHT 47.88124 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.734461   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.72725 2.683728 18 50.62023 58.66934  
## AftLow 51.30000 4.448265 18 43.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.496933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.72725 a  
## AftLow 51.30000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT18 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 259.774 51.955 15.7664 6.584e-07 \*\*\*  
## THIregime 1 93.198 93.198 28.2824 1.861e-05 \*\*\*  
## Colour:THIregime 5 13.084 2.617 0.7941 0.5645   
## Residuals 24 79.087 3.295   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.29528   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.46419 2.305980 6 52.3 58.33913  
## BLK 50.92950 2.220173 6 47.3 53.37222  
## BRN 49.99349 2.949529 6 46.1 53.35963  
## WHT 50.24062 3.893580 6 43.2 54.03411  
## WT/BLK 55.22562 1.313833 6 53.5 56.79136  
## WT/BR 56.36718 1.114087 6 54.7 57.47958  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.240525   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36718 a  
## BL/BR 55.46419 a  
## WT/BLK 55.22562 a  
## BLK 50.92950 b  
## WHT 50.24062 b  
## BRN 49.99349 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.29528   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.64576 2.435862 18 49.71748 58.33913  
## AftLow 51.42778 3.843069 18 43.20000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.248858   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.64576 a  
## AftLow 51.42778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT19 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 91.972 18.394 4.7296 0.0037916 \*\*   
## THIregime 1 62.647 62.647 16.1076 0.0005093 \*\*\*  
## Colour:THIregime 5 6.029 1.206 0.3100 0.9020368   
## Residuals 24 93.342 3.889   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.889255   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.79823 2.1875859 6 49.3 55.37135  
## BLK 51.33406 2.4797040 6 47.3 54.23581  
## BRN 53.07664 2.9671929 6 47.6 55.61528  
## WHT 50.63359 2.8064218 6 45.7 53.34922  
## WT/BLK 53.62323 2.0095057 6 50.2 55.49332  
## WT/BR 55.58253 0.8664795 6 54.6 56.44289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.520484   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.58253 a  
## WT/BLK 53.62323 ab  
## BRN 53.07664 ab  
## BL/BR 52.79823 ab  
## BLK 51.33406 b  
## WHT 50.63359 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.889255   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.16054 1.721366 18 51.05146 56.44289  
## AftLow 51.52222 2.879656 18 45.70000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.356751   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.16054 a  
## AftLow 51.52222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT20 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 338.59 67.717 44.6403 2.209e-11 \*\*\*  
## THIregime 1 93.62 93.618 61.7141 4.348e-08 \*\*\*  
## Colour:THIregime 5 17.60 3.520 2.3204 0.07459 .   
## Residuals 24 36.41 1.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516955   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.09114 2.5193126 6 49.2 54.74629  
## BLK 51.18547 2.3612753 6 47.3 53.91991  
## BRN 53.80538 1.5201576 6 52.1 55.34589  
## WHT 48.26667 3.2889777 6 44.2 51.95928  
## WT/BLK 56.40551 0.9906805 6 55.2 57.60154  
## WT/BR 57.22144 1.8688343 6 53.9 59.16217  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.198647   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.22144 a  
## WT/BLK 56.40551 a  
## BRN 53.80538 b  
## BL/BR 52.09114 bc  
## BLK 51.18547 c  
## WHT 48.26667 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516955   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.77521 2.613180 18 50.31141 59.16217  
## AftLow 51.55000 4.032989 18 44.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8473315   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.77521 a  
## AftLow 51.55000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT21 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.36 66.473 56.1739 1.835e-12 \*\*\*  
## THIregime 1 121.67 121.666 102.8157 3.745e-10 \*\*\*  
## Colour:THIregime 5 6.82 1.364 1.1526 0.3607   
## Residuals 24 28.40 1.183   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.183337   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.86320 2.285366 6 49.9 55.33433  
## BLK 51.03915 2.251446 6 47.3 53.64038  
## BRN 50.63101 2.345304 6 48.1 52.85990  
## WHT 48.10328 2.825391 6 45.2 50.95018  
## WT/BLK 57.15741 2.063593 6 54.2 59.84915  
## WT/BR 55.43616 1.828513 6 53.1 57.59109  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.941885   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.15741 a  
## WT/BR 55.43616 a  
## BL/BR 52.86320 b  
## BLK 51.03915 bc  
## BRN 50.63101 c  
## WHT 48.10328 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.183337   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.37674 2.874462 18 50.48667 59.84915  
## AftLow 50.70000 3.655133 18 45.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7483786   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.37674 a  
## AftLow 50.70000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT22 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 378.29 75.658 30.0539 1.377e-09 \*\*\*  
## THIregime 1 66.30 66.300 26.3366 2.977e-05 \*\*\*  
## Colour:THIregime 5 29.78 5.957 2.3662 0.07014 .   
## Residuals 24 60.42 2.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.517402   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.29820 2.1161933 6 51.5 57.34600  
## BLK 51.68520 2.7935726 6 47.3 54.96531  
## BRN 54.56106 1.4766094 6 52.6 56.02996  
## WHT 47.47944 3.4567537 6 44.1 50.81259  
## WT/BLK 53.04506 2.1345049 6 49.5 55.32780  
## WT/BR 57.87351 0.5764523 6 57.1 58.68428  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.83234   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.87351 a  
## BL/BR 55.29820 ab  
## BRN 54.56106 b  
## WT/BLK 53.04506 bc  
## BLK 51.68520 c  
## WHT 47.47944 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.517402   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.68083 2.715213 18 50.30988 58.68428  
## AftLow 51.96667 4.492870 18 44.10000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.091549   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.68083 a  
## AftLow 51.96667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT23 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 187.801 37.560 16.9756 3.393e-07 \*\*\*  
## THIregime 1 76.800 76.800 34.7101 4.451e-06 \*\*\*  
## Colour:THIregime 5 6.325 1.265 0.5717 0.7209   
## Residuals 24 53.103 2.213   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.212605   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.84017 1.264951 6 55.1 58.38559  
## BLK 51.42328 2.543830 6 47.3 54.40625  
## BRN 51.08799 2.556016 6 47.3 53.63649  
## WHT 52.43668 1.878545 6 50.2 54.62215  
## WT/BLK 54.52619 2.729954 6 49.9 57.96743  
## WT/BR 56.38256 1.288212 6 54.8 58.10184  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.655346   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.84017 a  
## WT/BR 56.38256 a  
## WT/BLK 54.52619 ab  
## WHT 52.43668 bc  
## BLK 51.42328 c  
## BRN 51.08799 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.212605   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.24340 2.169274 18 51.71245 58.38559  
## AftLow 52.32222 3.136419 18 47.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.023338   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.24340 a  
## AftLow 52.32222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT24 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 432.41 86.483 54.4383 2.585e-12 \*\*\*  
## THIregime 1 135.68 135.678 85.4051 2.242e-09 \*\*\*  
## Colour:THIregime 5 13.19 2.638 1.6608 0.1825   
## Residuals 24 38.13 1.589   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.58864   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.15999 2.898972 6 50.1 58.22878  
## BLK 50.04476 2.613366 6 46.7 53.15146  
## BRN 55.13328 1.629329 6 53.4 56.83242  
## WHT 48.47763 3.575120 6 44.2 52.39087  
## WT/BLK 57.72333 2.038464 6 54.6 60.18891  
## WT/BR 57.07575 1.604435 6 55.2 58.68876  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.249997   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.72333 a  
## WT/BR 57.07575 ab  
## BL/BR 55.15999 b  
## BRN 55.13328 b  
## BLK 50.04476 c  
## WHT 48.47763 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.58864   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.87714 3.125834 18 50.81225 60.18891  
## AftLow 51.99444 4.322509 18 44.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8671211   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.87714 a  
## AftLow 51.99444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT25 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 271.730 54.346 31.0280 9.948e-10 \*\*\*  
## THIregime 1 105.129 105.129 60.0219 5.543e-08 \*\*\*  
## Colour:THIregime 5 10.578 2.116 1.2079 0.3355   
## Residuals 24 42.036 1.752   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.751509   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.82954 2.102273 6 51.4 57.28792  
## BLK 49.91556 2.670845 6 46.3 53.09919  
## BRN 54.11169 1.841298 6 51.5 56.25860  
## WHT 49.27084 3.089407 6 45.6 52.68816  
## WT/BLK 56.19629 2.153371 6 53.1 58.96056  
## WT/BR 55.79599 1.556886 6 53.7 57.74342  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.36252   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.19629 a  
## WT/BR 55.79599 a  
## BL/BR 54.82954 a  
## BRN 54.11169 a  
## BLK 49.91556 b  
## WHT 49.27084 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.751509   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.06219 2.422196 18 51.19506 58.96056  
## AftLow 51.64444 3.634835 18 45.60000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9104861   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.06219 a  
## AftLow 51.64444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT26 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 1448.97 289.794 3.9016 0.009922 \*\*  
## THIregime 1 218.04 218.039 2.9355 0.099542 .   
## Colour:THIregime 5 54.45 10.889 0.1466 0.979149   
## Residuals 24 1782.63 74.276   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 74.27639   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.63267 2.763171 6 50.2 56.98475  
## BLK 38.49420 19.527276 6 3.5 52.30564  
## BRN 49.12010 2.844939 6 46.2 52.02473  
## WHT 48.28291 2.922120 6 44.5 51.74077  
## WT/BLK 56.69473 1.703263 6 54.3 58.47706  
## WT/BR 57.00820 1.593893 6 54.8 58.88738  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 15.3849   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.00820 a  
## WT/BLK 56.69473 a  
## BL/BR 53.63267 ab  
## BRN 49.12010 ab  
## WHT 48.28291 ab  
## BLK 38.49420 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 74.27639   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 52.99983 7.216308 18 27.09177 58.88738  
## AftLow 48.07778 11.883679 18 3.50000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 5.92915   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 52.99983 a  
## AftLow 48.07778 a  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT27 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 292.951 58.590 29.894 1.453e-09 \*\*\*  
## THIregime 1 106.687 106.687 54.434 1.282e-07 \*\*\*  
## Colour:THIregime 5 5.076 1.015 0.518 0.7601   
## Residuals 24 47.038 1.960   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.95992   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.62664 2.418096 6 51.3 58.06152  
## BLK 49.96703 2.491825 6 46.8 52.94476  
## BRN 51.30354 2.425982 6 48.8 53.71748  
## WHT 51.73574 2.499887 6 47.8 54.66789  
## WT/BLK 56.14587 2.450563 6 52.5 59.40486  
## WT/BR 57.65010 1.250502 6 56.1 59.07555  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.499127   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.65010 a  
## WT/BLK 56.14587 a  
## BL/BR 55.62664 a  
## WHT 51.73574 b  
## BRN 51.30354 b  
## BLK 49.96703 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.95992   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.45964 2.729802 18 51.32005 59.40486  
## AftLow 52.01667 3.584156 18 46.80000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.963133   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.45964 a  
## AftLow 52.01667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT28 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 194.471 38.894 9.5727 4.018e-05 \*\*\*  
## THIregime 1 97.887 97.887 24.0919 5.244e-05 \*\*\*  
## Colour:THIregime 5 6.302 1.260 0.3102 0.9019   
## Residuals 24 97.513 4.063   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.063055   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.33031 1.674505 6 55.3 59.45422  
## BLK 52.21488 3.181805 6 47.3 56.00390  
## BRN 54.56471 2.495995 6 50.4 57.20750  
## WHT 51.71718 3.500225 6 45.7 55.56301  
## WT/BLK 57.26911 2.602521 6 52.6 59.90142  
## WT/BR 56.76426 1.468990 6 54.9 58.29847  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.598285   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.33031 a  
## WT/BLK 57.26911 a  
## WT/BR 56.76426 a  
## BRN 54.56471 ab  
## BLK 52.21488 b  
## WHT 51.71718 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.063055   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.62571 2.303074 18 52.28633 59.90142  
## AftLow 53.32778 3.498875 18 45.70000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.386735   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.62571 a  
## AftLow 53.32778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT29 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 225.278 45.056 21.9751 3.047e-08 \*\*\*  
## THIregime 1 88.127 88.127 42.9822 8.826e-07 \*\*\*  
## Colour:THIregime 5 7.462 1.492 0.7279 0.6094   
## Residuals 24 49.207 2.050   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.050303   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.65192 2.707060 6 49.2 55.89754  
## BLK 51.18619 2.367691 6 47.3 53.94264  
## BRN 49.62622 2.606652 6 46.3 52.39464  
## WHT 52.75582 1.321111 6 51.3 54.12558  
## WT/BLK 55.41824 2.369441 6 51.3 57.79320  
## WT/BR 57.11584 1.367781 6 54.9 58.63649  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.556102   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11584 a  
## WT/BLK 55.41824 a  
## WHT 52.75582 b  
## BL/BR 52.65192 b  
## BLK 51.18619 bc  
## BRN 49.62622 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.050303   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.69030 2.412767 18 51.18975 58.63649  
## AftLow 51.56111 3.280807 18 46.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9850905   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.69030 a  
## AftLow 51.56111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT30 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 351.09 70.219 24.7464 9.606e-09 \*\*\*  
## THIregime 1 131.17 131.168 46.2258 4.947e-07 \*\*\*  
## Colour:THIregime 5 9.38 1.877 0.6614 0.6561   
## Residuals 24 68.10 2.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837539   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.48043 3.107612 6 49.9 58.54893  
## BLK 50.20810 2.686847 6 46.9 53.37480  
## BRN 54.49353 2.431994 6 50.4 57.05472  
## WHT 49.62773 3.751027 6 44.6 54.06751  
## WT/BLK 57.59988 1.562402 6 55.9 59.35259  
## WT/BR 57.10983 1.558269 6 55.4 58.67830  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.007046   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.59988 a  
## WT/BR 57.10983 ab  
## BL/BR 55.48043 ab  
## BRN 54.49353 b  
## BLK 50.20810 c  
## WHT 49.62773 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837539   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.99539 2.886764 18 51.29224 59.35259  
## AftLow 52.17778 4.108178 18 44.60000 56.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.158879   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.99539 a  
## AftLow 52.17778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT31 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 332.79 66.558 46.1944 1.531e-11 \*\*\*  
## THIregime 1 70.80 70.797 49.1363 3.011e-07 \*\*\*  
## Colour:THIregime 5 16.02 3.204 2.2234 0.08499 .   
## Residuals 24 34.58 1.441   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.440823   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.10269 1.004911 6 56.5 59.16311  
## BLK 50.99659 2.341335 6 47.3 53.47903  
## BRN 49.94841 2.952101 6 46.3 53.08622  
## WHT 53.06416 1.636458 6 51.2 54.87769  
## WT/BLK 55.64985 2.291931 6 51.6 57.78449  
## WT/BR 57.11906 1.068310 6 55.7 58.33332  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.142765   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.10269 a  
## WT/BR 57.11906 ab  
## WT/BLK 55.64985 b  
## WHT 53.06416 c  
## BLK 50.99659 cd  
## BRN 49.94841 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.440823   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.54914 2.571598 18 51.78912 59.16311  
## AftLow 52.74444 3.992378 18 46.30000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8257952   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.54914 a  
## AftLow 52.74444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT32 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 321.03 64.206 27.9056 2.911e-09 \*\*\*  
## THIregime 1 98.14 98.140 42.6542 9.373e-07 \*\*\*  
## Colour:THIregime 5 14.55 2.909 1.2645 0.3113   
## Residuals 24 55.22 2.301   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.300826   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.48760 2.1971260 6 53.4 59.23933  
## BLK 50.15229 2.9029995 6 46.3 53.57200  
## BRN 55.18132 1.8177416 6 53.2 56.98636  
## WHT 51.21600 3.8318054 6 44.4 54.99094  
## WT/BLK 56.54784 1.1948855 6 55.1 58.05890  
## WT/BR 58.42150 0.9548781 6 57.4 59.31898  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.707765   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.42150 a  
## WT/BLK 56.54784 ab  
## BL/BR 56.48760 ab  
## BRN 55.18132 b  
## WHT 51.21600 c  
## BLK 50.15229 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.300826   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.31885 2.587648 18 51.64603 59.31898  
## AftLow 53.01667 4.036342 18 44.40000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.04354   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.31885 a  
## AftLow 53.01667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT33 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 379.88 75.976 31.7802 7.787e-10 \*\*\*  
## THIregime 1 110.02 110.021 46.0214 5.127e-07 \*\*\*  
## Colour:THIregime 5 19.85 3.969 1.6603 0.1826   
## Residuals 24 57.38 2.391   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.390658   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.81003 1.659126 6 54.3 58.81682  
## BLK 51.77757 2.861380 6 47.3 55.14712  
## BRN 51.72716 3.351347 6 47.7 56.07767  
## WHT 47.85042 3.444772 6 43.6 51.20308  
## WT/BLK 55.70742 1.363904 6 54.3 57.02657  
## WT/BR 56.58317 1.245119 6 54.9 57.87782  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.760119   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.81003 a  
## WT/BR 56.58317 a  
## WT/BLK 55.70742 a  
## BLK 51.77757 b  
## BRN 51.72716 b  
## WHT 47.85042 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.390658   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.15748 2.786706 18 50.55489 58.81682  
## AftLow 51.66111 4.372930 18 43.60000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.063716   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.15748 a  
## AftLow 51.66111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT34 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 288.742 57.748 21.9459 3.086e-08 \*\*\*  
## THIregime 1 86.268 86.268 32.7841 6.713e-06 \*\*\*  
## Colour:THIregime 5 15.756 3.151 1.1976 0.3401   
## Residuals 24 63.154 2.631   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.631397   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.17947 1.648270 6 54.3 58.85602  
## BLK 50.46412 2.610642 6 47.3 53.47459  
## BRN 55.11032 1.582330 6 53.6 56.60439  
## WHT 50.65050 4.197131 6 43.2 54.90310  
## WT/BLK 55.11040 1.387541 6 53.1 56.71295  
## WT/BR 57.53990 1.207617 6 55.9 59.19204  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.895759   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.53990 a  
## BL/BR 57.17947 a  
## WT/BLK 55.11040 a  
## BRN 55.11032 a  
## WHT 50.65050 b  
## BLK 50.46412 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.631397   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89046 2.465081 18 50.48992 59.19204  
## AftLow 52.79444 3.943345 18 43.20000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.11599   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89046 a  
## AftLow 52.79444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT35 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 308.460 61.692 29.2983 1.782e-09 \*\*\*  
## THIregime 1 77.565 77.565 36.8365 2.874e-06 \*\*\*  
## Colour:THIregime 5 12.433 2.487 1.1809 0.3476   
## Residuals 24 50.536 2.106   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.105649   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.57728 1.307207 6 55.3 59.03374  
## BLK 51.58408 2.732766 6 47.3 54.77214  
## BRN 49.86217 2.746537 6 46.9 52.41561  
## WHT 50.64592 2.816391 6 45.7 53.37382  
## WT/BLK 55.00314 1.355255 6 53.7 56.26866  
## WT/BR 56.23448 1.271815 6 54.2 57.61647  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.590372   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.57728 a  
## WT/BR 56.23448 a  
## WT/BLK 55.00314 a  
## BLK 51.58408 b  
## WHT 50.64592 b  
## BRN 49.86217 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.105649   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.95236 2.599353 18 51.07759 59.03374  
## AftLow 52.01667 3.884850 18 45.70000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9982977   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.95236 a  
## AftLow 52.01667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT36 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 425.09 85.018 99.2282 3.164e-15 \*\*\*  
## THIregime 1 114.27 114.266 133.3646 2.754e-11 \*\*\*  
## Colour:THIregime 5 20.25 4.049 4.7259 0.003807 \*\*   
## Residuals 24 20.56 0.857   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8567952   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.51345 1.366421 6 55.2 57.77926  
## BLK 50.17267 2.314718 6 47.3 52.89249  
## BRN 51.17325 2.790629 6 48.3 53.84557  
## WHT 48.42538 3.448691 6 44.2 52.25838  
## WT/BLK 55.57819 1.326760 6 53.7 57.00043  
## WT/BR 57.45992 1.532493 6 54.7 58.93965  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.652372   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.45992 a  
## BL/BR 56.51345 ab  
## WT/BLK 55.57819 b  
## BRN 51.17325 c  
## BLK 50.17267 c  
## WHT 48.42538 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8567952   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.00207 2.868871 18 50.62811 58.93965  
## AftLow 51.43889 4.378979 18 44.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6368037   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.00207 a  
## AftLow 51.43889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT37 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 362.32 72.464 200.0348 < 2.2e-16 \*\*\*  
## THIregime 1 102.90 102.898 284.0484 8.368e-15 \*\*\*  
## Colour:THIregime 5 16.99 3.398 9.3789 4.686e-05 \*\*\*  
## Residuals 24 8.69 0.362   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3622565   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.43658 1.033714 6 55.9 58.54893  
## BLK 50.49924 2.282090 6 47.3 53.03029  
## BRN 52.58499 2.224059 6 50.2 54.80711  
## WHT 48.44691 3.201677 6 45.2 51.67870  
## WT/BLK 55.76108 1.559889 6 53.6 57.67995  
## WT/BR 55.61509 1.345050 6 54.2 57.00044  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.074428   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.43658 a  
## WT/BLK 55.76108 b  
## WT/BR 55.61509 b  
## BRN 52.58499 c  
## BLK 50.49924 d  
## WHT 48.44691 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3622565   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.08129 2.611530 18 51.17233 58.54893  
## AftLow 51.70000 4.000441 18 45.20000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4140713   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.08129 a  
## AftLow 51.70000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT38 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 386.79 77.359 34.8458 3.012e-10 \*\*\*  
## THIregime 1 105.42 105.422 47.4869 3.980e-07 \*\*\*  
## Colour:THIregime 5 20.47 4.093 1.8438 0.1422   
## Residuals 24 53.28 2.220   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.220027   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.42481 3.284132 6 49.5 58.56563  
## BLK 51.07939 2.354705 6 47.3 53.65856  
## BRN 54.76634 1.714395 6 52.5 56.53604  
## WHT 47.63661 3.628897 6 44.1 51.12621  
## WT/BLK 55.75817 1.359378 6 54.2 57.10498  
## WT/BR 57.23554 1.244056 6 55.7 58.68876  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.659796   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.23554 a  
## WT/BLK 55.75817 a  
## BL/BR 55.42481 a  
## BRN 54.76634 a  
## BLK 51.07939 b  
## WHT 47.63661 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.220027   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.36140 2.773583 18 50.60607 58.68876  
## AftLow 51.93889 4.404295 18 44.10000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.025053   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.36140 a  
## AftLow 51.93889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT39 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 188.234 37.647 25.5949 6.889e-09 \*\*\*  
## THIregime 1 90.571 90.571 61.5765 4.434e-08 \*\*\*  
## Colour:THIregime 5 7.652 1.530 1.0405 0.4169   
## Residuals 24 35.301 1.471   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470875   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.58999 2.7702706 6 50.3 57.17685  
## BLK 51.72901 2.7785312 6 47.3 54.99031  
## BRN 54.64127 1.8266192 6 51.9 56.51880  
## WHT 52.77414 2.2189036 6 50.2 55.25810  
## WT/BLK 56.47687 1.4446832 6 54.3 58.08939  
## WT/BR 58.50561 0.9813414 6 57.3 59.60273  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.164996   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.50561 a  
## WT/BLK 56.47687 ab  
## BRN 54.64127 bc  
## BL/BR 53.58999 cd  
## WHT 52.77414 cd  
## BLK 51.72901 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470875   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.20563 2.063221 18 52.35214 59.60273  
## AftLow 53.03333 3.056526 18 47.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8343627   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.20563 a  
## AftLow 53.03333 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT40 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 233.006 46.601 43.9145 2.633e-11 \*\*\*  
## THIregime 1 103.696 103.696 97.7176 6.156e-10 \*\*\*  
## Colour:THIregime 5 9.597 1.919 1.8087 0.1492   
## Residuals 24 25.468 1.061   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.06118   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.98210 2.021325 6 50.4 55.13323  
## BLK 51.09506 2.292708 6 47.3 53.74720  
## BRN 52.47410 1.912378 6 50.2 54.62215  
## WHT 48.02615 3.090404 6 44.2 51.43368  
## WT/BLK 54.54794 1.947574 6 51.6 56.71295  
## WT/BR 56.02444 1.187049 6 54.6 57.40117  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.838923   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.02444 a  
## WT/BLK 54.54794 ab  
## BL/BR 52.98210 bc  
## BRN 52.47410 cd  
## BLK 51.09506 d  
## WHT 48.02615 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.06118   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.22215 2.253297 18 49.96141 57.40117  
## AftLow 50.82778 3.269791 18 44.20000 55.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7086985   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.22215 a  
## AftLow 50.82778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT41 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 408.05 81.610 95.7594 4.742e-15 \*\*\*  
## THIregime 1 112.42 112.420 131.9105 3.081e-11 \*\*\*  
## Colour:THIregime 5 20.59 4.118 4.8314 0.003383 \*\*   
## Residuals 24 20.45 0.852   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8522415   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.56682 2.134930 6 52.2 57.08537  
## BLK 51.37937 2.515228 6 47.3 54.29035  
## BRN 54.89026 1.608370 6 53.1 56.43293  
## WHT 47.69874 3.622017 6 44.1 51.32914  
## WT/BLK 55.97590 1.622929 6 53.8 57.84547  
## WT/BR 58.09172 1.211687 6 56.1 59.37872  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.647975   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.09172 a  
## WT/BLK 55.97590 b  
## BRN 54.89026 b  
## BL/BR 54.56682 b  
## BLK 51.37937 c  
## WHT 47.69874 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8522415   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.53427 2.803280 18 50.82489 59.37872  
## AftLow 52.00000 4.307995 18 44.10000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6351092   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.53427 a  
## AftLow 52.00000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT42 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 266.568 53.314 43.4402 2.956e-11 \*\*\*  
## THIregime 1 89.227 89.227 72.7027 1.003e-08 \*\*\*  
## Colour:THIregime 5 15.065 3.013 2.4551 0.06229 .   
## Residuals 24 29.455 1.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227289   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.75057 1.384949 6 53.7 57.35979  
## BLK 51.66260 2.779712 6 47.3 54.92213  
## BRN 54.08619 1.526159 6 52.5 55.60724  
## WHT 47.82389 3.287915 6 44.6 51.00322  
## WT/BLK 54.53036 1.496487 6 53.1 55.98117  
## WT/BR 55.22574 1.313615 6 53.7 56.66068  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.977619   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.75057 a  
## WT/BR 55.22574 a  
## WT/BLK 54.53036 a  
## BRN 54.08619 a  
## BLK 51.66260 b  
## WHT 47.82389 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.227289   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.75423 2.267401 18 50.46378 57.35979  
## AftLow 51.60556 3.627424 18 44.60000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7621499   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.75423 a  
## AftLow 51.60556 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT43 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 406.88 81.377 33.6573 4.314e-10 \*\*\*  
## THIregime 1 96.92 96.916 40.0844 1.518e-06 \*\*\*  
## Colour:THIregime 5 12.88 2.576 1.0654 0.4039   
## Residuals 24 58.03 2.418   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.417802   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.24336 1.767478 6 54.4 59.32645  
## BLK 50.13936 2.281306 6 47.3 52.82596  
## BRN 49.35478 2.995112 6 46.3 52.46702  
## WHT 50.91651 3.560589 6 44.5 54.54955  
## WT/BLK 56.30718 1.422171 6 54.6 58.01970  
## WT/BR 56.78340 1.251039 6 55.4 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.775745   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.24336 a  
## WT/BR 56.78340 a  
## WT/BLK 56.30718 a  
## WHT 50.91651 b  
## BLK 50.13936 b  
## BRN 49.35478 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.417802   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.09820 3.019791 18 50.46342 59.32645  
## AftLow 51.81667 4.357313 18 44.50000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.069738   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.09820 a  
## AftLow 51.81667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT44 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 236.998 47.400 18.4041 1.62e-07 \*\*\*  
## THIregime 1 83.956 83.956 32.5980 6.99e-06 \*\*\*  
## Colour:THIregime 5 11.132 2.226 0.8645 0.5191   
## Residuals 24 61.812 2.575   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.575492   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.02321 2.852015 6 49.5 56.53001  
## BLK 51.47702 2.671896 6 47.3 54.56761  
## BRN 51.21222 2.107046 6 49.1 53.40386  
## WHT 48.93901 2.614936 6 45.9 51.75057  
## WT/BLK 54.12624 1.435432 6 52.5 55.81129  
## WT/BR 57.11839 1.664029 6 54.2 58.61707  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.864833   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11839 a  
## WT/BLK 54.12624 b  
## BL/BR 53.02321 bc  
## BLK 51.47702 bcd  
## BRN 51.21222 cd  
## WHT 48.93901 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.575492   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.17647 2.334784 18 50.75127 58.61707  
## AftLow 51.12222 3.575004 18 45.90000 57.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.104071   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.17647 a  
## AftLow 51.12222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT45 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 167.427 33.485 20.7910 5.171e-08 \*\*\*  
## THIregime 1 91.137 91.137 56.5869 9.218e-08 \*\*\*  
## Colour:THIregime 5 6.957 1.391 0.8639 0.5194   
## Residuals 24 38.654 1.611   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.610575   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.81560 2.335329 6 49.3 54.48494  
## BLK 51.17750 2.355745 6 47.3 53.91537  
## BRN 52.10131 2.620707 6 48.6 55.46249  
## WHT 49.99674 2.499250 6 47.1 52.89417  
## WT/BLK 54.62159 1.410959 6 52.6 56.13798  
## WT/BR 56.36718 1.114087 6 54.7 57.47958  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.265477   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36718 a  
## WT/BLK 54.62159 a  
## BRN 52.10131 b  
## BL/BR 51.81560 b  
## BLK 51.17750 b  
## WHT 49.99674 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.610575   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.27109 1.977227 18 51.41377 57.47958  
## AftLow 51.08889 2.936362 18 47.10000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.873087   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.27109 a  
## AftLow 51.08889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT46 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 102.996 20.599 40.7543 5.826e-11 \*\*\*  
## THIregime 1 64.430 64.430 127.4709 4.368e-11 \*\*\*  
## Colour:THIregime 5 6.239 1.248 2.4686 0.06118 .   
## Residuals 24 12.131 0.505   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5054472   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.13131 1.2168016 6 53.5 56.33544  
## BLK 50.51708 2.3001451 6 47.3 53.06593  
## BRN 52.47381 1.9257035 6 50.2 54.60205  
## WHT 52.77480 1.7980066 6 50.2 54.76589  
## WT/BLK 53.26948 1.4619249 6 51.3 55.22326  
## WT/BR 55.56034 0.8427302 6 54.6 56.39933  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.269133   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.56034 a  
## BL/BR 55.13131 a  
## WT/BLK 53.26948 b  
## WHT 52.77480 b  
## BRN 52.47381 b  
## BLK 50.51708 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5054472   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.62561 1.422099 18 51.86429 56.39933  
## AftLow 51.95000 2.262027 18 47.30000 54.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4891082   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.62561 a  
## AftLow 51.95000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT47 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 286.378 57.276 21.5026 3.752e-08 \*\*\*  
## THIregime 1 97.630 97.630 36.6525 2.983e-06 \*\*\*  
## Colour:THIregime 5 13.224 2.645 0.9929 0.4428   
## Residuals 24 63.928 2.664   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.663668   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.22724 1.627280 6 54.4 58.08504  
## BLK 51.93620 2.957120 6 47.3 55.44483  
## BRN 55.22102 1.634324 6 53.6 56.83759  
## WHT 49.49085 4.112240 6 44.3 54.48276  
## WT/BLK 55.74674 1.630661 6 53.6 57.54927  
## WT/BR 57.82541 1.150343 6 56.3 59.12782  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.913461   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.82541 a  
## BL/BR 56.22724 a  
## WT/BLK 55.74674 a  
## BRN 55.22102 a  
## BLK 51.93620 b  
## WHT 49.49085 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.663668   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05471 2.485107 18 51.26457 59.12782  
## AftLow 52.76111 3.899795 18 44.30000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.122812   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05471 a  
## AftLow 52.76111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT48 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 338.72 67.743 37.6379 1.347e-10 \*\*\*  
## THIregime 1 100.71 100.713 55.9557 1.014e-07 \*\*\*  
## Colour:THIregime 5 17.12 3.424 1.9023 0.1313   
## Residuals 24 43.20 1.800   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.79987   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.08659 1.419917 6 55.3 58.58814  
## BLK 50.97171 2.444034 6 47.3 53.40806  
## BRN 55.31789 1.664844 6 53.7 56.93409  
## WHT 49.56843 4.027672 6 44.7 54.75936  
## WT/BLK 55.72856 1.548134 6 53.7 57.32277  
## WT/BR 57.79574 1.681015 6 54.8 59.38619  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.394913   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.79574 a  
## BL/BR 57.08659 ab  
## WT/BLK 55.72856 ab  
## BRN 55.31789 b  
## BLK 50.97171 c  
## WHT 49.56843 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.79987   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.08409 2.618829 18 51.31462 59.38619  
## AftLow 52.73889 4.076062 18 44.70000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9229702   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.08409 a  
## AftLow 52.73889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT49 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.150 55.630 12.9980 3.496e-06 \*\*\*  
## THIregime 1 85.072 85.072 19.8771 0.0001647 \*\*\*  
## Colour:THIregime 5 10.854 2.171 0.5072 0.7679269   
## Residuals 24 102.718 4.280   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.279897   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.30986 0.9071804 6 57.1 59.35259  
## BLK 51.86881 2.9044661 6 47.3 55.31075  
## BRN 52.54234 2.3222656 6 50.2 54.93577  
## WHT 50.70896 4.6335218 6 42.1 54.68979  
## WT/BLK 56.23970 1.2827448 6 54.7 57.65381  
## WT/BR 56.45377 1.4006700 6 54.8 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.693056   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.30986 a  
## WT/BR 56.45377 a  
## WT/BLK 56.23970 a  
## BRN 52.54234 b  
## BLK 51.86881 b  
## WHT 50.70896 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.279897   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.89115 2.587713 18 49.77084 59.35259  
## AftLow 52.81667 4.043040 18 42.10000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.423258   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.89115 a  
## AftLow 52.81667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT50 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 404.51 80.901 118.1982 4.283e-16 \*\*\*  
## THIregime 1 114.05 114.054 166.6351 2.718e-12 \*\*\*  
## Colour:THIregime 5 16.30 3.260 4.7632 0.003651 \*\*   
## Residuals 24 16.43 0.684   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6844555   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.55350 2.511465 6 50.2 55.06645  
## BLK 51.10861 2.312921 6 47.3 53.75174  
## BRN 54.41148 1.393914 6 52.8 55.88708  
## WHT 47.60473 3.343327 6 44.3 51.06452  
## WT/BLK 57.03983 1.428703 6 55.3 58.50755  
## WT/BR 57.09481 1.592912 6 54.6 58.93816  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.476868   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.09481 a  
## WT/BLK 57.03983 a  
## BRN 54.41148 b  
## BL/BR 52.55350 c  
## BLK 51.10861 c  
## WHT 47.60473 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.6844555   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.08210 2.908645 18 50.26341 58.93816  
## AftLow 51.52222 4.154453 18 44.30000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5691669   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.08210 a  
## AftLow 51.52222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT51 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 345.14 69.029 43.0680 3.240e-11 \*\*\*  
## THIregime 1 99.30 99.300 61.9548 4.202e-08 \*\*\*  
## Colour:THIregime 5 13.34 2.668 1.6648 0.1815   
## Residuals 24 38.47 1.603   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.602789   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.41309 2.673782 6 52.1 58.81028  
## BLK 49.86038 2.432791 6 46.7 52.78320  
## BRN 54.49769 1.489110 6 52.7 56.23850  
## WHT 48.30765 3.155801 6 45.3 51.49248  
## WT/BLK 55.35644 1.860727 6 52.7 57.64074  
## WT/BR 56.56305 1.231035 6 54.9 57.87036  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.259994   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.56305 a  
## BL/BR 55.41309 a  
## WT/BLK 55.35644 a  
## BRN 54.49769 a  
## BLK 49.86038 b  
## WHT 48.30765 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.602789   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.99388 2.714419 18 50.89646 58.81028  
## AftLow 51.67222 3.997765 18 45.30000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8709741   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.99388 a  
## AftLow 51.67222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT52 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.275 62.855 117.1360 4.750e-16 \*\*\*  
## THIregime 1 94.934 94.934 176.9178 1.442e-12 \*\*\*  
## Colour:THIregime 5 8.734 1.747 3.2553 0.02201 \*   
## Residuals 24 12.878 0.537   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.536599   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.76983 2.097827 6 51.3 56.31221  
## BLK 50.10982 1.865439 6 47.3 52.20110  
## BRN 49.18124 2.638845 6 46.3 51.96844  
## WHT 49.26022 2.260312 6 47.1 51.49248  
## WT/BLK 55.33300 1.378789 6 53.2 56.92203  
## WT/BR 56.45596 1.206207 6 54.7 57.65381  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.307658   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.45596 a  
## WT/BLK 55.33300 a  
## BL/BR 53.76983 b  
## BLK 50.10982 c  
## WHT 49.26022 c  
## BRN 49.18124 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.536599   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.97558 2.655199 18 50.95827 57.65381  
## AftLow 50.72778 3.564829 18 46.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5039553   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.97558 a  
## AftLow 50.72778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT53 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 106.645 21.329 11.3195 1.089e-05 \*\*\*  
## THIregime 1 83.987 83.987 44.5726 6.622e-07 \*\*\*  
## Colour:THIregime 5 4.404 0.881 0.4674 0.7966   
## Residuals 24 45.223 1.884   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.884278   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.47883 2.315715 6 52.3 58.36817  
## BLK 51.96553 2.983933 6 47.3 55.50619  
## BRN 54.66332 1.605294 6 52.5 56.31489  
## WHT 51.45962 2.410532 6 49.1 53.90670  
## WT/BLK 54.93950 1.593067 6 53.2 56.63455  
## WT/BR 55.92432 1.237288 6 54.6 57.11369  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.450427   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.92432 a  
## BL/BR 55.47883 a  
## WT/BLK 54.93950 a  
## BRN 54.66332 a  
## BLK 51.96553 b  
## WHT 51.45962 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.884278   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.59926 1.629283 18 52.20031 58.36817  
## AftLow 52.54444 2.556933 18 47.30000 57.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9443643   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.59926 a  
## AftLow 52.54444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT54 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 211.980 42.396 34.7386 3.110e-10 \*\*\*  
## THIregime 1 94.468 94.468 77.4052 5.633e-09 \*\*\*  
## Colour:THIregime 5 9.986 1.997 1.6364 0.1886   
## Residuals 24 29.290 1.220   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.22043   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.13496 2.481055 6 49.3 56.03925  
## BLK 50.30352 2.446842 6 47.3 53.15384  
## BRN 54.46332 1.649360 6 51.9 56.16412  
## WHT 50.52636 2.550505 6 48.1 53.00178  
## WT/BLK 54.97637 1.436349 6 53.6 56.37320  
## WT/BR 57.11491 1.821393 6 53.9 58.98296  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.972085   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.11491 a  
## WT/BLK 54.97637 b  
## BRN 54.46332 b  
## BL/BR 53.13496 b  
## WHT 50.52636 c  
## BLK 50.30352 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.22043   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.03982 2.084059 18 51.95638 58.98296  
## AftLow 51.80000 3.230553 18 47.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7600173   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.03982 a  
## AftLow 51.80000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT55 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 167.596 33.519 22.1004 2.885e-08 \*\*\*  
## THIregime 1 94.371 94.371 62.2222 4.046e-08 \*\*\*  
## Colour:THIregime 5 5.808 1.162 0.7659 0.5834   
## Residuals 24 36.400 1.517   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516679   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.82468 2.228619 6 49.2 54.15172  
## BLK 51.46750 2.666668 6 47.3 54.54943  
## BRN 52.35983 1.796430 6 50.2 54.40959  
## WHT 48.99036 2.752818 6 45.7 52.09867  
## WT/BLK 55.15336 1.450079 6 53.7 56.58228  
## WT/BR 55.15208 1.526481 6 53.1 56.92203  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.198447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 55.15336 a  
## WT/BR 55.15208 a  
## BRN 52.35983 b  
## BL/BR 51.82468 b  
## BLK 51.46750 b  
## WHT 48.99036 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.516679   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.11038 2.037133 18 50.77569 56.92203  
## AftLow 50.87222 2.862086 18 45.70000 54.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8472546   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.11038 a  
## AftLow 50.87222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT56 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 401.55 80.311 96.2704 4.464e-15 \*\*\*  
## THIregime 1 109.63 109.633 131.4192 3.200e-11 \*\*\*  
## Colour:THIregime 5 21.66 4.332 5.1923 0.002277 \*\*   
## Residuals 24 20.02 0.834   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8342206   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.93055 2.3575648 6 49.9 55.48461  
## BLK 50.12271 2.2646370 6 47.3 52.79270  
## BRN 54.69919 1.4018496 6 53.1 56.05211  
## WHT 47.78002 3.3789756 6 44.6 51.10699  
## WT/BLK 54.20277 2.3710702 6 51.4 57.57541  
## WT/BR 58.20198 0.7556172 6 57.1 59.23684  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.630458   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.20198 a  
## BRN 54.69919 b  
## WT/BLK 54.20277 bc  
## BL/BR 52.93055 c  
## BLK 50.12271 d  
## WHT 47.78002 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8342206   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.73463 2.774340 18 50.56832 59.23684  
## AftLow 51.24444 4.286672 18 44.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6283585   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.73463 a  
## AftLow 51.24444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT57 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.84 82.168 98.2750 3.531e-15 \*\*\*  
## THIregime 1 113.91 113.911 136.2400 2.213e-11 \*\*\*  
## Colour:THIregime 5 16.86 3.372 4.0325 0.008485 \*\*   
## Residuals 24 20.07 0.836   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8361052   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.55880 2.327727 6 51.5 57.86289  
## BLK 50.52303 2.306169 6 47.3 53.07781  
## BRN 54.26414 1.721103 6 52.5 55.98921  
## WHT 47.72967 3.507262 6 44.2 51.00899  
## WT/BLK 56.87510 1.329644 6 55.2 58.25492  
## WT/BR 56.68884 1.548989 6 54.8 58.61707  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.632299   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.87510 a  
## WT/BR 56.68884 a  
## BL/BR 55.55880 ab  
## BRN 54.26414 b  
## BLK 50.52303 c  
## WHT 47.72967 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8361052   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.38541 2.868178 18 50.76579 58.61707  
## AftLow 51.82778 4.255903 18 44.20000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6290679   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.38541 a  
## AftLow 51.82778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT58 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 442.47 88.493 106.0461 1.483e-15 \*\*\*  
## THIregime 1 103.74 103.739 124.3159 5.633e-11 \*\*\*  
## Colour:THIregime 5 15.75 3.150 3.7743 0.01157 \*   
## Residuals 24 20.03 0.834   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8344806   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.95436 1.370285 6 55.1 58.61209  
## BLK 50.80816 2.114364 6 47.3 53.14041  
## BRN 49.31732 2.954049 6 46.3 52.38660  
## WHT 48.55828 2.805919 6 45.7 51.61989  
## WT/BLK 55.51089 1.872168 6 52.8 57.83676  
## WT/BR 56.70289 1.204222 6 55.2 57.97490  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.630712   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.95436 a  
## WT/BR 56.70289 a  
## WT/BLK 55.51089 a  
## BLK 50.80816 b  
## BRN 49.31732 bc  
## WHT 48.55828 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8344806   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.67286 3.044682 18 50.72804 58.61209  
## AftLow 51.27778 4.343021 18 45.70000 56.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6284564   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.67286 a  
## AftLow 51.27778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT59 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 116.610 23.322 6.1253 0.0008607 \*\*\*  
## THIregime 1 91.108 91.108 23.9285 5.471e-05 \*\*\*  
## Colour:THIregime 5 4.440 0.888 0.2332 0.9441090   
## Residuals 24 91.380 3.808   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.807521   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.75006 2.582241 6 50.1 57.31406  
## BLK 51.48752 2.591308 6 47.3 54.52897  
## BRN 51.38542 3.661843 6 46.3 56.04952  
## WHT 52.04890 1.920318 6 50.2 53.90267  
## WT/BLK 55.08814 2.183455 6 51.6 57.94130  
## WT/BR 55.68502 1.462446 6 53.7 57.55674  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.483295   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.68502 a  
## WT/BLK 55.08814 ab  
## BL/BR 54.75006 abc  
## WHT 52.04890 bc  
## BLK 51.48752 c  
## BRN 51.38542 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.807521   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.99835 1.937339 18 51.84686 57.9413  
## AftLow 51.81667 2.956797 18 46.30000 55.9000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.342419   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.99835 a  
## AftLow 51.81667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT60 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 1271.47 254.295 3.1957 0.02373 \*  
## THIregime 1 126.83 126.831 1.5939 0.21890   
## Colour:THIregime 5 95.39 19.077 0.2397 0.94090   
## Residuals 24 1909.78 79.574   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 79.57415   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.57997 2.7199923 6 50.2 56.89067  
## BLK 52.95665 0.6085891 6 52.1 53.55933  
## BRN 39.36894 20.1108869 6 3.5 54.65202  
## WHT 50.47198 3.2131310 6 44.6 53.08309  
## WT/BLK 56.78943 1.2543083 6 55.2 58.24185  
## WT/BR 56.92830 1.5118295 6 54.8 58.69921  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 15.92411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.92830 a  
## WT/BLK 56.78943 a  
## BL/BR 53.57997 ab  
## BLK 52.95665 ab  
## WHT 50.47198 ab  
## BRN 39.36894 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 79.57415   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.55954 6.984142 18 27.68916 58.69921  
## AftLow 49.80556 11.998552 18 3.50000 56.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 6.136957   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.55954 a  
## AftLow 49.80556 a  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT61 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 314.820 62.964 54.8807 2.367e-12 \*\*\*  
## THIregime 1 98.498 98.498 85.8533 2.133e-09 \*\*\*  
## Colour:THIregime 5 9.764 1.953 1.7022 0.1725   
## Residuals 24 27.535 1.147   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.147288   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.37189 2.246899 6 51.3 57.60677  
## BLK 50.23374 1.913776 6 48.1 52.07042  
## BRN 49.83155 2.762638 6 46.7 52.96071  
## WHT 49.25965 2.510123 6 46.4 51.81917  
## WT/BLK 55.80735 1.454515 6 53.6 57.65381  
## WT/BR 55.78711 1.549179 6 53.7 57.72848  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.912077   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 55.80735 a  
## WT/BR 55.78711 a  
## BL/BR 55.37189 a  
## BLK 50.23374 b  
## BRN 49.83155 b  
## WHT 49.25965 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.147288   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.36932 2.624950 18 51.05908 57.72848  
## AftLow 51.06111 3.717864 18 46.40000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.736891   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.36932 a  
## AftLow 51.06111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT62 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 217.200 43.440 37.6244 1.353e-10 \*\*\*  
## THIregime 1 77.506 77.506 67.1299 2.063e-08 \*\*\*  
## Colour:THIregime 5 14.544 2.909 2.5194 0.05718 .   
## Residuals 24 27.710 1.155   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.15457   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.13120 1.516591 6 55.3 59.05929  
## BLK 54.39758 1.306833 6 52.6 55.71755  
## BRN 54.93835 1.705650 6 52.6 56.70947  
## WHT 49.57984 3.202342 6 45.3 52.82345  
## WT/BLK 54.98593 2.281950 6 51.6 58.09811  
## WT/BR 56.67085 1.254028 6 54.8 58.09288  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.918136   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.13120 a  
## WT/BR 56.67085 ab  
## WT/BLK 54.98593 bc  
## BRN 54.93835 bc  
## BLK 54.39758 c  
## WHT 49.57984 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.15457   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.08459 2.017404 18 51.81264 59.05929  
## AftLow 53.15000 3.345453 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7392261   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.08459 a  
## AftLow 53.15000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT63 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 264.322 52.864 58.178 1.249e-12 \*\*\*  
## THIregime 1 95.863 95.863 105.499 2.907e-10 \*\*\*  
## Colour:THIregime 5 8.937 1.787 1.967 0.1203   
## Residuals 24 21.808 0.909   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9086598   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.76026 2.801943 6 49.2 56.09094  
## BLK 50.71833 2.195904 6 47.3 52.91542  
## BRN 53.91908 1.577343 6 52.1 55.69570  
## WHT 50.08516 2.605726 6 47.2 52.78290  
## WT/BLK 56.18241 1.397290 6 54.3 57.88903  
## WT/BR 57.59240 1.190942 6 56.1 58.93965  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.701648   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.59240 a  
## WT/BLK 56.18241 a  
## BRN 53.91908 b  
## BL/BR 52.76026 b  
## BLK 50.71833 c  
## WHT 50.08516 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.9086598   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.17476 2.394710 18 51.69254 58.93965  
## AftLow 51.91111 3.409138 18 47.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6557944   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.17476 a  
## AftLow 51.91111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT64 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 370.03 74.005 40.2086 6.720e-11 \*\*\*  
## THIregime 1 97.30 97.297 52.8638 1.641e-07 \*\*\*  
## Colour:THIregime 5 17.55 3.511 1.9075 0.1304   
## Residuals 24 44.17 1.841   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.840531   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.31060 2.9858346 6 49.9 58.16998  
## BLK 54.37610 0.8245204 6 53.4 55.31829  
## BRN 50.26357 2.8138185 6 46.9 53.52046  
## WHT 48.24971 3.2197351 6 44.3 51.94767  
## WT/BLK 56.59736 1.4332567 6 54.6 58.12424  
## WT/BR 56.66660 1.3679750 6 54.9 58.10682  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.421814   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.66660 a  
## WT/BLK 56.59736 a  
## BL/BR 55.31060 a  
## BLK 54.37610 a  
## BRN 50.26357 b  
## WHT 48.24971 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.840531   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.22132 2.822103 18 50.17613 58.16998  
## AftLow 51.93333 4.175277 18 44.30000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9333373   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.22132 a  
## AftLow 51.93333 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT65 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 477.06 95.411 21.803 3.285e-08 \*\*\*  
## THIregime 1 119.44 119.439 27.294 2.357e-05 \*\*\*  
## Colour:THIregime 5 24.18 4.835 1.105 0.3838   
## Residuals 24 105.02 4.376   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.375968   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.33401 1.230998 6 56.5 59.67927  
## BLK 53.98971 1.717056 6 51.5 55.98117  
## BRN 54.65088 2.574523 6 50.4 57.39246  
## WHT 48.18788 3.807000 6 43.6 51.87644  
## WT/BLK 59.56518 4.231276 6 54.8 64.70000  
## WT/BR 55.10119 2.497826 6 51.6 57.88380  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.734274   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 59.56518 a  
## BL/BR 58.33401 ab  
## WT/BR 55.10119 bc  
## BRN 54.65088 bc  
## BLK 53.98971 c  
## WHT 48.18788 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 4.375968   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.79295 3.261099 18 51.27034 64.60572  
## AftLow 53.15000 5.002735 18 43.60000 64.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.439144   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.79295 a  
## AftLow 53.15000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT66 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 392.40 78.480 29.0209 1.962e-09 \*\*\*  
## THIregime 1 106.08 106.083 39.2282 1.790e-06 \*\*\*  
## Colour:THIregime 5 11.40 2.281 0.8433 0.5325   
## Residuals 24 64.90 2.704   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.704253   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.20651 1.989559 6 53.4 58.68179  
## BLK 48.70234 2.385994 6 46.2 51.06530  
## BRN 49.82665 2.821300 6 46.3 52.82487  
## WHT 50.16049 3.837603 6 43.2 53.86424  
## WT/BLK 56.21713 1.346563 6 54.2 57.86289  
## WT/BR 55.88655 1.525180 6 53.8 57.63639  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.935573   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 56.21713 a  
## BL/BR 56.20651 a  
## WT/BR 55.88655 a  
## WHT 50.16049 b  
## BRN 49.82665 b  
## BLK 48.70234 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.704253   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.54989 3.008998 18 49.56648 58.68179  
## AftLow 51.11667 4.303111 18 43.20000 57.40000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.131334   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.54989 a  
## AftLow 51.11667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT67 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 177.366 35.473 33.049 5.208e-10 \*\*\*  
## THIregime 1 91.008 91.008 84.788 2.401e-09 \*\*\*  
## Colour:THIregime 5 7.792 1.558 1.452 0.2422   
## 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: 1.07336   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.65777 1.530080 6 54.3 58.47706  
## BLK 51.08696 2.186929 6 48.8 53.20588  
## BRN 54.96778 1.585223 6 53.2 56.52799  
## WHT 51.07892 3.183316 6 45.7 54.23781  
## WT/BLK 56.02799 1.536508 6 53.8 57.88903  
## WT/BR 54.68709 1.667691 6 53.1 56.28434  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.849447   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.65777 a  
## WT/BLK 56.02799 ab  
## BRN 54.96778 ab  
## WT/BR 54.68709 b  
## BLK 51.08696 c  
## WHT 51.07892 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.07336   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.67439 1.909564 18 51.99558 58.47706  
## AftLow 52.49444 2.959824 18 45.70000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7127542   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.67439 a  
## AftLow 52.49444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT68 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 324.83 64.965 32.2262 6.750e-10 \*\*\*  
## THIregime 1 93.77 93.769 46.5145 4.705e-07 \*\*\*  
## Colour:THIregime 5 20.16 4.031 1.9997 0.115   
## Residuals 24 48.38 2.016   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.01591   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.07992 1.565247 6 54.3 58.63387  
## BLK 53.88502 1.925770 6 50.4 55.74969  
## BRN 51.71405 3.339771 6 47.7 56.04952  
## WHT 48.41459 3.437792 6 44.2 52.23806  
## WT/BLK 55.79504 1.202115 6 54.6 56.97430  
## WT/BR 56.26149 1.373072 6 54.6 57.89425  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.534573   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.07992 a  
## WT/BR 56.26149 ab  
## WT/BLK 55.79504 ab  
## BLK 53.88502 bc  
## BRN 51.71405 c  
## WHT 48.41459 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.01591   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.47226 2.503868 18 50.60658 58.63387  
## AftLow 52.24444 4.107271 18 44.20000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9767933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.47226 a  
## AftLow 52.24444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT69 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 403.03 80.605 211.268 < 2.2e-16 \*\*\*  
## THIregime 1 101.84 101.843 266.932 1.666e-14 \*\*\*  
## Colour:THIregime 5 20.26 4.052 10.619 1.807e-05 \*\*\*  
## Residuals 24 9.16 0.382   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3815302   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.50994 1.264363 6 55.3 58.91352  
## BLK 49.56736 2.538087 6 46.3 52.20528  
## BRN 55.01479 1.477553 6 53.6 56.39933  
## WHT 48.55323 3.318152 6 45.2 51.90411  
## WT/BLK 56.32464 1.373545 6 54.7 57.81062  
## WT/BR 54.45510 1.769490 6 52.5 56.34706  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.10264   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.50994 a  
## WT/BLK 56.32464 b  
## BRN 55.01479 c  
## WT/BR 54.45510 c  
## BLK 49.56736 d  
## WHT 48.55323 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3815302   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.25279 2.728969 18 51.14506 58.91352  
## AftLow 51.88889 4.241516 18 45.20000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4249438   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.25279 a  
## AftLow 51.88889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT70 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 219.361 43.872 23.9394 1.329e-08 \*\*\*  
## THIregime 1 73.837 73.837 40.2900 1.459e-06 \*\*\*  
## Colour:THIregime 5 15.377 3.075 1.6781 0.1782   
## Residuals 24 43.983 1.833   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.832635   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.20893 1.033901 6 55.2 57.23565  
## BLK 54.45990 1.035972 6 53.2 55.49938  
## BRN 53.36137 3.121357 6 47.6 56.18278  
## WHT 48.66561 3.340820 6 44.8 52.76983  
## WT/BLK 55.50923 1.154823 6 54.3 56.69988  
## WT/BR 54.72115 1.503194 6 52.6 56.26492  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.416613   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.20893 a  
## WT/BLK 55.50923 ab  
## WT/BR 54.72115 ab  
## BLK 54.45990 ab  
## BRN 53.36137 b  
## WHT 48.66561 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.832635   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.25317 2.047993 18 50.67286 57.23565  
## AftLow 52.38889 3.493000 18 44.80000 55.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9313332   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.25317 a  
## AftLow 52.38889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT71 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 128.523 25.705 21.863 3.200e-08 \*\*\*  
## THIregime 1 72.721 72.721 61.852 4.263e-08 \*\*\*  
## Colour:THIregime 5 7.584 1.517 1.290 0.3009   
## Residuals 24 28.217 1.176   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.175727   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.20233 0.808266 6 55.9 58.02623  
## BLK 51.34559 3.010909 6 47.7 55.18716  
## BRN 53.91215 1.636617 6 52.1 55.57507  
## WHT 52.33115 2.026248 6 50.2 54.45881  
## WT/BLK 55.11984 1.395872 6 53.1 56.72602  
## WT/BR 53.68328 1.803592 6 51.3 55.82436  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.935631   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.20233 a  
## WT/BLK 55.11984 b  
## BRN 53.91215 bc  
## WT/BR 53.68328 bc  
## WHT 52.33115 cd  
## BLK 51.34559 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.175727   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.35367 1.600855 18 52.3859 58.02623  
## AftLow 52.51111 2.665220 18 47.7000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7459683   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.35367 a  
## AftLow 52.51111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT72 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 241.677 48.335 24.0647 1.263e-08 \*\*\*  
## THIregime 1 71.986 71.986 35.8396 3.521e-06 \*\*\*  
## Colour:THIregime 5 16.042 3.208 1.5973 0.1989   
## Residuals 24 48.205 2.009   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.008556   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.10858 3.1499397 6 49.5 57.93839  
## BLK 54.29725 0.6920248 6 53.6 54.94765  
## BRN 50.65349 2.3698041 6 48.1 52.90471  
## WHT 48.55594 2.8924636 6 44.6 51.65583  
## WT/BLK 54.80495 1.1399962 6 53.7 55.91583  
## WT/BR 55.39757 1.2504426 6 53.6 56.65023  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.529945   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.39757 a  
## BL/BR 55.10858 a  
## WT/BLK 54.80495 a  
## BLK 54.29725 a  
## BRN 50.65349 b  
## WHT 48.55594 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.008556   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.55037 2.201770 18 50.08918 57.93839  
## AftLow 51.72222 3.625977 18 44.60000 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.9750099   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.55037 a  
## AftLow 51.72222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT73 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 412.40 82.480 137.8106 < 2.2e-16 \*\*\*  
## THIregime 1 110.02 110.022 183.8295 9.591e-13 \*\*\*  
## Colour:THIregime 5 18.38 3.676 6.1415 0.0008467 \*\*\*  
## Residuals 24 14.36 0.599   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5985008   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.52557 2.7069523 6 50.3 57.03310  
## BLK 49.53266 2.3886795 6 46.9 51.78139  
## BRN 54.64348 1.5627205 6 52.6 56.19398  
## WHT 48.84812 3.2096713 6 45.3 52.34187  
## WT/BLK 55.67257 1.4138478 6 53.7 57.13111  
## WT/BR 58.53340 0.8811763 6 57.3 59.57909  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.381025   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.53340 a  
## WT/BLK 55.67257 b  
## BRN 54.64348 bc  
## BL/BR 53.52557 c  
## BLK 49.53266 d  
## WHT 48.84812 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.5985008   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.20749 2.848772 18 51.15491 59.57909  
## AftLow 51.71111 4.250798 18 45.30000 58.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.5322301   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.20749 a  
## AftLow 51.71111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT74 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 248.345 49.669 110.9471 8.848e-16 \*\*\*  
## THIregime 1 104.764 104.764 234.0150 7.073e-14 \*\*\*  
## Colour:THIregime 5 4.121 0.824 1.8412 0.1427   
## Residuals 24 10.744 0.448   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4476816   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.08751 2.132486 6 50.4 55.34231  
## BLK 50.40580 1.952955 6 48.3 52.31752  
## BRN 50.86883 2.339165 6 47.3 53.19966  
## WHT 49.49428 2.332855 6 47.2 51.65909  
## WT/BLK 55.87433 1.681108 6 53.6 57.99357  
## WT/BR 56.20468 1.350705 6 54.7 57.75835  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.194411   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.20468 a  
## WT/BLK 55.87433 a  
## BL/BR 53.08751 b  
## BRN 50.86883 c  
## BLK 50.40580 cd  
## WHT 49.49428 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.4476816   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.36181 2.417162 18 51.57307 57.99357  
## AftLow 50.95000 3.104882 18 47.20000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4603113   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.36181 a  
## AftLow 50.95000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT75 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 183.461 36.692 24.7842 9.463e-09 \*\*\*  
## THIregime 1 90.693 90.693 61.2599 4.638e-08 \*\*\*  
## Colour:THIregime 5 7.532 1.506 1.0175 0.4293   
## Residuals 24 35.531 1.480   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.480469   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.52876 2.094130 6 52.2 57.00044  
## BLK 52.31689 1.931166 6 50.2 54.19652  
## BRN 55.03400 1.522242 6 53.4 56.63455  
## WHT 50.98831 3.631336 6 44.5 54.60763  
## WT/BLK 55.84311 1.448774 6 54.2 57.23565  
## WT/BR 57.87890 1.016723 6 56.8 58.84557  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.172045   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 57.87890 a  
## WT/BLK 55.84311 ab  
## BRN 55.03400 b  
## BL/BR 54.52876 b  
## BLK 52.31689 c  
## WHT 50.98831 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.480469   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.01888 1.999404 18 51.2736 58.84557  
## AftLow 52.84444 3.054066 18 44.5000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8370795   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.01888 a  
## AftLow 52.84444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT76 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 281.084 56.217 71.0924 1.358e-13 \*\*\*  
## THIregime 1 97.238 97.238 122.9689 6.290e-11 \*\*\*  
## Colour:THIregime 5 15.209 3.042 3.8468 0.0106 \*   
## Residuals 24 18.978 0.791   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7907556   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.28348 1.923568 6 53.7 58.54893  
## BLK 54.50048 1.433623 6 52.5 55.96375  
## BRN 54.42264 2.158266 6 51.5 56.92605  
## WHT 49.55691 3.285706 6 45.9 53.06058  
## WT/BLK 56.60900 1.559057 6 54.3 58.33332  
## WT/BR 58.52177 1.626387 6 55.6 60.10005  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.587414   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 58.52177 a  
## WT/BLK 56.60900 b  
## BL/BR 56.28348 b  
## BLK 54.50048 c  
## BRN 54.42264 c  
## WHT 49.55691 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.7907556   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.62587 2.335258 18 51.91573 60.10005  
## AftLow 53.33889 3.618277 18 45.90000 58.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.61177   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.62587 a  
## AftLow 53.33889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT77 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 321.61 64.323 73.529 9.319e-14 \*\*\*  
## THIregime 1 70.33 70.333 80.400 3.956e-09 \*\*\*  
## Colour:THIregime 5 18.09 3.619 4.137 0.007498 \*\*   
## Residuals 24 20.99 0.875   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8747888   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.02961 1.6333083 6 54.4 58.90248  
## BLK 53.96761 1.1878039 6 51.9 55.16623  
## BRN 49.16131 2.8900955 6 46.2 52.11319  
## WHT 49.93818 2.4393454 6 47.1 52.77733  
## WT/BLK 54.24593 1.6345425 6 51.6 55.96375  
## WT/BR 56.47720 0.9117648 6 55.2 57.45220  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.669632   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.02961 a  
## WT/BR 56.47720 a  
## WT/BLK 54.24593 b  
## BLK 53.96761 b  
## WHT 49.93818 c  
## BRN 49.16131 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.8747888   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.86772 2.464902 18 51.49466 58.90248  
## AftLow 52.07222 3.891288 18 46.20000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.6434557   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.86772 a  
## AftLow 52.07222 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT78 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 65.249 13.050 8.9085 6.861e-05 \*\*\*  
## THIregime 1 56.984 56.984 38.9006 1.908e-06 \*\*\*  
## Colour:THIregime 5 4.913 0.983 0.6708 0.6494   
## Residuals 24 35.157 1.465   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.464864   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.57814 2.560843 6 49.5 55.73550  
## BLK 52.00661 1.447497 6 50.2 53.74720  
## BRN 50.69476 1.759439 6 48.8 52.41073  
## WHT 52.33256 1.358369 6 50.2 53.82830  
## WT/BLK 51.01879 1.934759 6 49.1 53.15859  
## WT/BR 54.85125 1.439997 6 52.8 56.69802  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.160567   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 54.85125 a  
## BL/BR 52.57814 b  
## WHT 52.33256 b  
## BLK 52.00661 b  
## WT/BLK 51.01879 b  
## BRN 50.69476 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.464864   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.50515 1.263078 18 52.06092 56.69802  
## AftLow 50.98889 2.144731 18 48.80000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8326561   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.50515 a  
## AftLow 50.98889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT79 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 137.551 27.510 9.6943 3.652e-05 \*\*\*  
## THIregime 1 70.239 70.239 24.7514 4.428e-05 \*\*\*  
## Colour:THIregime 5 10.488 2.098 0.7392 0.6016   
## Residuals 24 68.106 2.838   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837763   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 51.48766 1.978694 6 49.3 53.75316  
## BLK 54.16998 0.836376 6 53.1 55.04031  
## BRN 53.82294 1.882612 6 50.4 55.61528  
## WHT 48.93304 3.673536 6 44.3 53.43156  
## WT/BLK 52.91670 2.199943 6 50.3 56.00731  
## WT/BR 54.65055 1.809160 6 51.6 56.68159  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.007165   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 54.65055 a  
## BLK 54.16998 ab  
## BRN 53.82294 ab  
## WT/BLK 52.91670 ab  
## BL/BR 51.48766 bc  
## WHT 48.93304 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.837763   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.06028 1.773760 18 50.15153 56.68159  
## AftLow 51.26667 3.093256 18 44.30000 55.70000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.158925   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.06028 a  
## AftLow 51.26667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT80 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 348.73 69.746 307.536 < 2.2e-16 \*\*\*  
## THIregime 1 82.93 82.928 365.661 4.947e-16 \*\*\*  
## Colour:THIregime 5 20.52 4.104 18.095 1.894e-07 \*\*\*  
## Residuals 24 5.44 0.227   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2267898   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.25429 1.3482139 6 53.5 56.60841  
## BLK 53.39828 0.7762967 6 52.5 54.15670  
## BRN 49.65619 2.6386897 6 46.3 52.45898  
## WHT 47.34241 2.8986887 6 44.6 50.17920  
## WT/BLK 52.78693 1.8131545 6 50.4 54.72669  
## WT/BR 56.36839 0.8396555 6 55.2 57.45966  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.8501214   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.36839 a  
## BL/BR 55.25429 b  
## BLK 53.39828 c  
## WT/BLK 52.78693 c  
## BRN 49.65619 d  
## WHT 47.34241 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.2267898   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.9855 2.524073 18 49.74362 57.45966  
## AftLow 50.9500 3.958498 18 44.60000 56.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3276263   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.9855 a  
## AftLow 50.9500 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT81 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 389.41 77.881 254.162 < 2.2e-16 \*\*\*  
## THIregime 1 110.40 110.396 360.270 5.849e-16 \*\*\*  
## Colour:THIregime 5 21.96 4.393 14.335 1.516e-06 \*\*\*  
## Residuals 24 7.35 0.306   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3064242   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 55.89344 1.273040 6 54.4 57.34019  
## BLK 48.94698 2.546023 6 46.3 51.52080  
## BRN 54.89660 1.507868 6 53.2 56.37521  
## WHT 47.74353 3.522451 6 44.2 51.03839  
## WT/BLK 54.24258 1.819427 6 52.2 56.60841  
## WT/BR 55.71713 1.359474 6 53.6 57.39993  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 0.9881678   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 55.89344 a  
## WT/BR 55.71713 ab  
## BRN 54.89660 bc  
## WT/BLK 54.24258 c  
## BLK 48.94698 d  
## WHT 47.74353 e  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3064242   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.65787 2.640629 18 50.79192 57.39993  
## AftLow 51.15556 4.202131 18 44.20000 55.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.3808278   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.65787 a  
## AftLow 51.15556 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT82 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 295.720 59.144 36.9552 1.632e-10 \*\*\*  
## THIregime 1 104.155 104.155 65.0792 2.721e-08 \*\*\*  
## Colour:THIregime 5 14.568 2.914 1.8205 0.1468   
## Residuals 24 38.410 1.600   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.600427   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.72937 1.039348 6 55.3 57.79102  
## BLK 51.02150 1.896923 6 49.1 52.95947  
## BRN 51.61103 3.249603 6 47.7 55.82838  
## WHT 48.77247 3.039003 6 45.7 52.07399  
## WT/BLK 55.84226 1.478540 6 53.7 57.57541  
## WT/BR 54.92900 2.183216 6 51.6 57.70608  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.258329   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 56.72937 a  
## WT/BLK 55.84226 a  
## WT/BR 54.92900 a  
## BRN 51.61103 b  
## BLK 51.02150 bc  
## WHT 48.77247 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.600427   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.85187 2.465687 18 51.13168 57.79102  
## AftLow 51.45000 3.798955 18 45.70000 56.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8703322   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.85187 a  
## AftLow 51.45000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT83 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 189.330 37.866 32.1098 7.005e-10 \*\*\*  
## THIregime 1 87.825 87.825 74.4744 8.042e-09 \*\*\*  
## Colour:THIregime 5 7.553 1.511 1.2809 0.3046   
## Residuals 24 28.302 1.179   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.179268   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 58.44748 1.046292 6 57.1 59.59825  
## BLK 52.40230 2.864500 6 48.6 56.03842  
## BRN 55.26017 1.746742 6 53.6 56.92605  
## WHT 52.52812 2.445193 6 50.2 54.85890  
## WT/BLK 57.37193 1.903523 6 54.4 59.70976  
## WT/BR 56.46151 1.668100 6 54.3 58.31092  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.938543   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 58.44748 a  
## WT/BLK 57.37193 ab  
## WT/BR 56.46151 bc  
## BRN 55.26017 c  
## WHT 52.52812 d  
## BLK 52.40230 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.179268   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.97384 2.008812 18 53.50547 59.70976  
## AftLow 53.85000 3.034944 18 48.60000 58.10000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.7470906   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.97384 a  
## AftLow 53.85000 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT84 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 100.702 20.140 3.5906 0.01448 \*   
## THIregime 1 58.403 58.403 10.4119 0.00360 \*\*  
## Colour:THIregime 5 5.820 1.164 0.2075 0.95607   
## Residuals 24 134.621 5.609   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.609207   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 52.06744 1.9764244 6 50.2 53.98184  
## BLK 52.10317 1.5279984 6 50.2 53.79330  
## BRN 54.30548 3.7544364 6 47.7 57.30000  
## WHT 51.03596 3.4776349 6 44.6 54.14591  
## WT/BLK 52.54080 2.5616448 6 49.5 55.75902  
## WT/BR 56.05599 0.8808805 6 54.6 57.02657  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 4.227853   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.05599 a  
## BRN 54.30548 ab  
## WT/BLK 52.54080 ab  
## BLK 52.10317 ab  
## BL/BR 52.06744 ab  
## WHT 51.03596 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 5.609207   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.29183 1.895173 18 50.2086 57.11503  
## AftLow 51.74444 3.254720 18 44.6000 57.30000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.629363   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.29183 a  
## AftLow 51.74444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT85 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 190.639 38.128 25.9277 6.062e-09 \*\*\*  
## THIregime 1 69.746 69.746 47.4288 4.020e-07 \*\*\*  
## Colour:THIregime 5 16.020 3.204 2.1788 0.09026 .   
## Residuals 24 35.293 1.471   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470543   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 54.40106 2.7786030 6 49.3 56.64761  
## BLK 54.41343 0.7515534 6 53.6 55.13240  
## BRN 50.73868 2.3156486 6 48.3 52.97938  
## WHT 49.27506 2.5268781 6 46.4 51.85184  
## WT/BLK 51.38208 1.9002438 6 49.3 53.83810  
## WT/BR 55.64110 0.7537530 6 54.6 56.38888  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.164751   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 55.64110 a  
## BLK 54.41343 a  
## BL/BR 54.40106 a  
## WT/BLK 51.38208 b  
## BRN 50.73868 b  
## WHT 49.27506 b  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.470543   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 54.0338 1.851987 18 51.08812 56.64761  
## AftLow 51.2500 3.286738 18 46.40000 55.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8342686   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 54.0338 a  
## AftLow 51.2500 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT86 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 175.020 35.004 12.7305 4.161e-06 \*\*\*  
## THIregime 1 92.853 92.853 33.7695 5.431e-06 \*\*\*  
## Colour:THIregime 5 12.102 2.420 0.8803 0.5092   
## Residuals 24 65.991 2.750   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.749624   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.30226 2.572231 6 49.1 56.17065  
## BLK 54.75402 1.047379 6 53.7 55.73724  
## BRN 54.49278 3.516097 6 50.2 58.74344  
## WHT 49.47814 3.095876 6 45.3 52.62052  
## WT/BLK 55.49798 1.620029 6 53.5 57.26179  
## WT/BR 56.27753 1.379850 6 54.2 57.86289  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.960096   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BR 56.27753 a  
## WT/BLK 55.49798 ab  
## BLK 54.75402 ab  
## BRN 54.49278 ab  
## BL/BR 53.30226 b  
## WHT 49.47814 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.749624   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.57313 1.980050 18 51.59702 58.74344  
## AftLow 52.36111 3.311857 18 45.30000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.140785   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.57313 a  
## AftLow 52.36111 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT87 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 203.617 40.723 107.3805 1.286e-15 \*\*\*  
## THIregime 1 93.988 93.988 247.8317 3.773e-14 \*\*\*  
## Colour:THIregime 5 9.393 1.879 4.9535 0.002955 \*\*   
## Residuals 24 9.102 0.379   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3792432   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 57.01993 1.424101 6 55.3 58.76455  
## BLK 52.18848 1.932980 6 50.2 54.14176  
## BRN 54.83190 1.784093 6 52.5 56.67676  
## WHT 50.38718 2.935218 6 47.2 53.42321  
## WT/BLK 56.17754 1.585493 6 54.4 58.09811  
## WT/BR 56.05641 1.555605 6 53.8 57.88529  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 1.09933   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BL/BR 57.01993 a  
## WT/BLK 56.17754 a  
## WT/BR 56.05641 a  
## BRN 54.83190 b  
## BLK 52.18848 c  
## WHT 50.38718 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 0.3792432   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.05937 1.994038 18 52.572 58.76455  
## AftLow 52.82778 3.014827 18 47.200 57.20000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.4236683   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.05937 a  
## AftLow 52.82778 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT88 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 290.909 58.182 39.6178 7.857e-11 \*\*\*  
## THIregime 1 92.397 92.397 62.9162 3.670e-08 \*\*\*  
## Colour:THIregime 5 18.975 3.795 2.5842 0.05247 .   
## Residuals 24 35.246 1.469   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.468577   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 56.97257 2.058416 6 53.3 59.16964  
## BLK 54.34612 1.324296 6 52.8 55.76073  
## BRN 55.79705 2.214675 6 51.9 58.01166  
## WHT 48.80598 3.773904 6 44.3 52.99597  
## WT/BLK 57.02960 1.358253 6 55.3 58.43786  
## WT/BR 56.09435 1.529996 6 54.6 57.60154  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.163304   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 57.02960 a  
## BL/BR 56.97257 a  
## WT/BR 56.09435 ab  
## BRN 55.79705 ab  
## BLK 54.34612 b  
## WHT 48.80598 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 1.468577   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 56.44301 2.331971 18 51.28609 59.16964  
## AftLow 53.23889 3.855346 18 44.30000 57.60000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 0.8337107   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 56.44301 a  
## AftLow 53.23889 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT89 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 410.20 82.041 22.453 2.477e-08 \*\*\*  
## THIregime 1 108.28 108.278 29.634 1.358e-05 \*\*\*  
## Colour:THIregime 5 19.22 3.844 1.052 0.4108   
## Residuals 24 87.69 3.654   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.653882   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 53.35323 4.641219 6 46.5 58.83860  
## BLK 54.04932 1.040942 6 52.7 55.29170  
## BRN 52.71386 2.159190 6 50.2 55.06819  
## WHT 47.78108 3.370565 6 43.6 51.06472  
## WT/BLK 58.54532 1.167858 6 57.1 59.91449  
## WT/BR 56.66286 1.739796 6 54.7 58.44657  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 3.412294   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## WT/BLK 58.54532 a  
## WT/BR 56.66286 ab  
## BLK 54.04932 bc  
## BL/BR 53.35323 bc  
## BRN 52.71386 c  
## WHT 47.78108 d  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 3.653882   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 55.58522 3.080212 18 50.40788 59.91449  
## AftLow 52.11667 4.575028 18 43.60000 57.80000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.315056   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 55.58522 a  
## AftLow 52.11667 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05  
## [1] "---- RESPRT90 ----"  
## Analysis of Variance Table  
##   
## Response: data1[[i]]  
## Df Sum Sq Mean Sq F value Pr(>F)   
## Colour 5 278.731 55.746 21.556 3.664e-08 \*\*\*  
## THIregime 1 80.865 80.865 31.269 9.369e-06 \*\*\*  
## Colour:THIregime 5 20.585 4.117 1.592 0.2004   
## Residuals 24 62.066 2.586   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Study: Colour  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.586095   
##   
## Colour, means  
##   
## data1..i.. std r Min Max  
## BL/BR 50.58887 2.5041218 6 46.5 53.32121  
## BLK 49.00325 2.4407549 6 46.3 51.52329  
## BRN 56.79331 1.0572980 6 55.2 57.94304  
## WHT 50.30072 3.9363320 6 43.2 54.16152  
## WT/BLK 51.89122 1.7930545 6 50.2 53.83810  
## WT/BR 55.18181 0.8048438 6 54.3 56.08571  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 4.372651   
##   
## Minimun Significant Difference: 2.870724   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## BRN 56.79331 a  
## WT/BR 55.18181 a  
## WT/BLK 51.89122 b  
## BL/BR 50.58887 bc  
## WHT 50.30072 bc  
## BLK 49.00325 c  
##   
## Study: THIregime  
##   
## HSD Test for data1[[i]]   
##   
## Mean Square Error: 2.586095   
##   
## THIregime, means  
##   
## data1..i.. std r Min Max  
## AftHigh 53.79195 2.302082 18 49.83073 57.94304  
## AftLow 50.79444 3.994772 18 43.20000 57.90000  
##   
## Alpha: 0.05 ; DF Error: 24   
## Critical Value of Studentized Range: 2.918793   
##   
## Minimun Significant Difference: 1.106342   
##   
## Treatments with the same letter are not significantly different.  
##   
## data1[[i]] groups  
## AftHigh 53.79195 a  
## AftLow 50.79444 b  
## test name.t ntr StudentizedRange alpha  
## Tukey Colour:THIregime 12 5.09913 0.05