Advanced Analysis

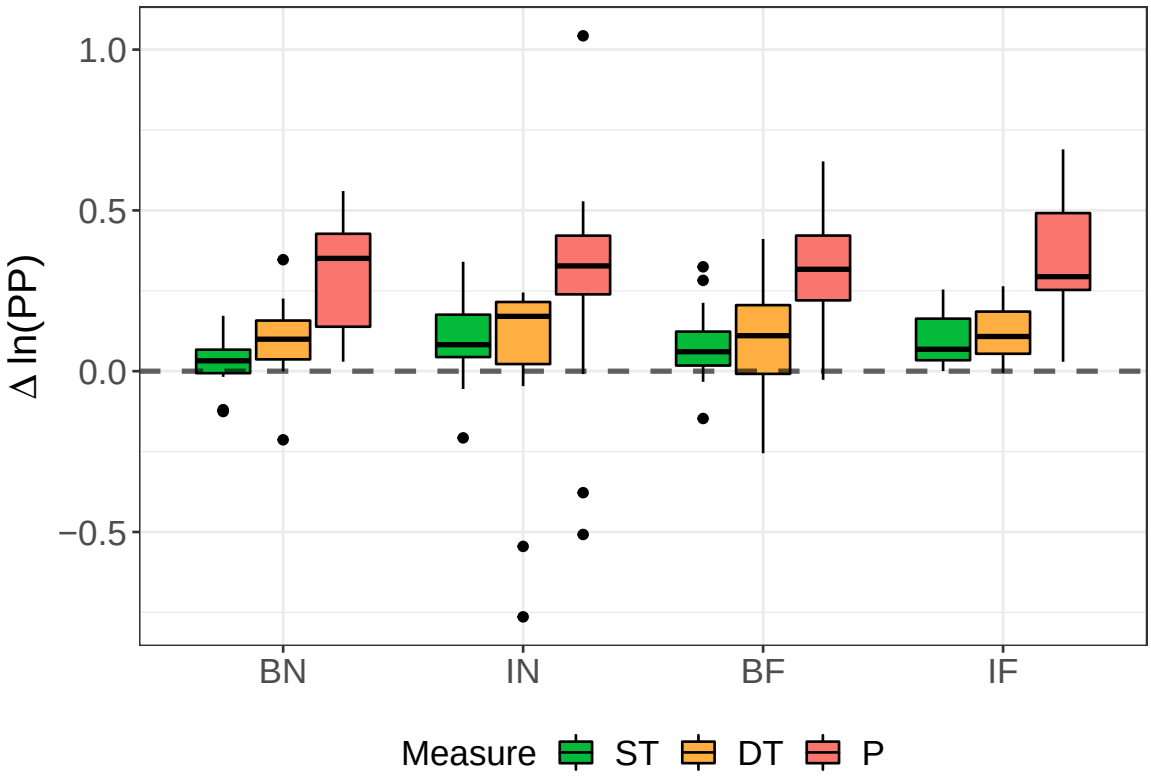
PP, 4 Groups:

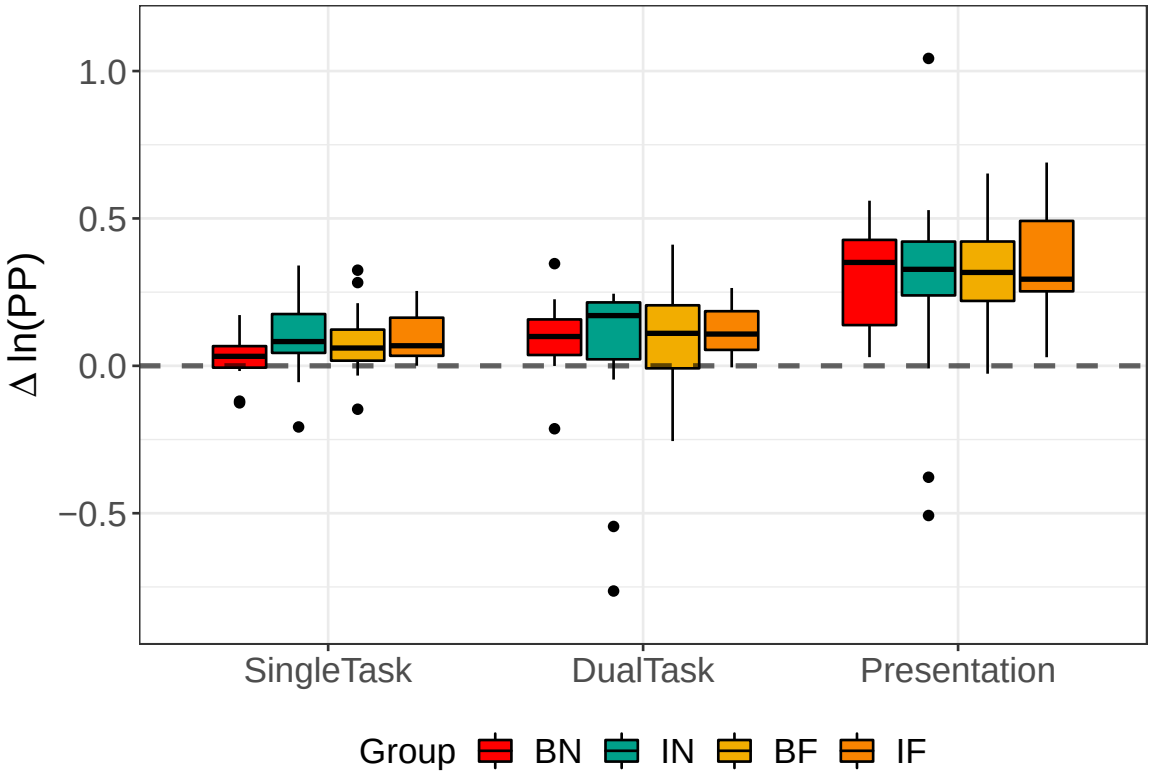
Stress Levels Across Activities

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##         AIC       BIC   logLik
##   -164.0176 -132.9969 91.00879
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1350202 0.1251077
##
## Fixed effects: PP ~ 1 + Group + Activity
##                   Value  Std.Error  DF   t-value p-value
## (Intercept)  0.05675195 0.04518058 176  1.256114  0.2107
## GroupIN      0.00225501 0.05686965  56  0.039652  0.9685
## GroupBF      0.03362415 0.05682650  56  0.591698  0.5564
## GroupIF      0.05455497 0.05682650  56  0.960027  0.3412
## ActivityB   -0.04699852 0.02284144 176 -2.057599  0.0411
## ActivityDT   0.00841038 0.02284144 176  0.368207  0.7132
## ActivityP    0.23390950 0.02296330 176 10.186233  0.0000
##  Correlation:
##            (Intr) GropIN GropBF GropIF ActvtB ActvDT
## GroupIN    -0.719
## GroupBF    -0.719  0.571
## GroupIF    -0.719  0.571  0.571
## ActivityB  -0.253  0.000  0.000  0.000
## ActivityDT -0.253  0.000  0.000  0.000  0.500
## ActivityP  -0.253  0.004  0.000  0.000  0.497  0.497
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.65611093 -0.38824321 -0.05856128  0.43310320  4.37609008
##
## Number of Observations: 239
## Number of Groups: 60
```


1.0
0.5
0.0
−0.5
Δ ln(PP)
BN
IN
BF
IF
Measure
ST
DT
P

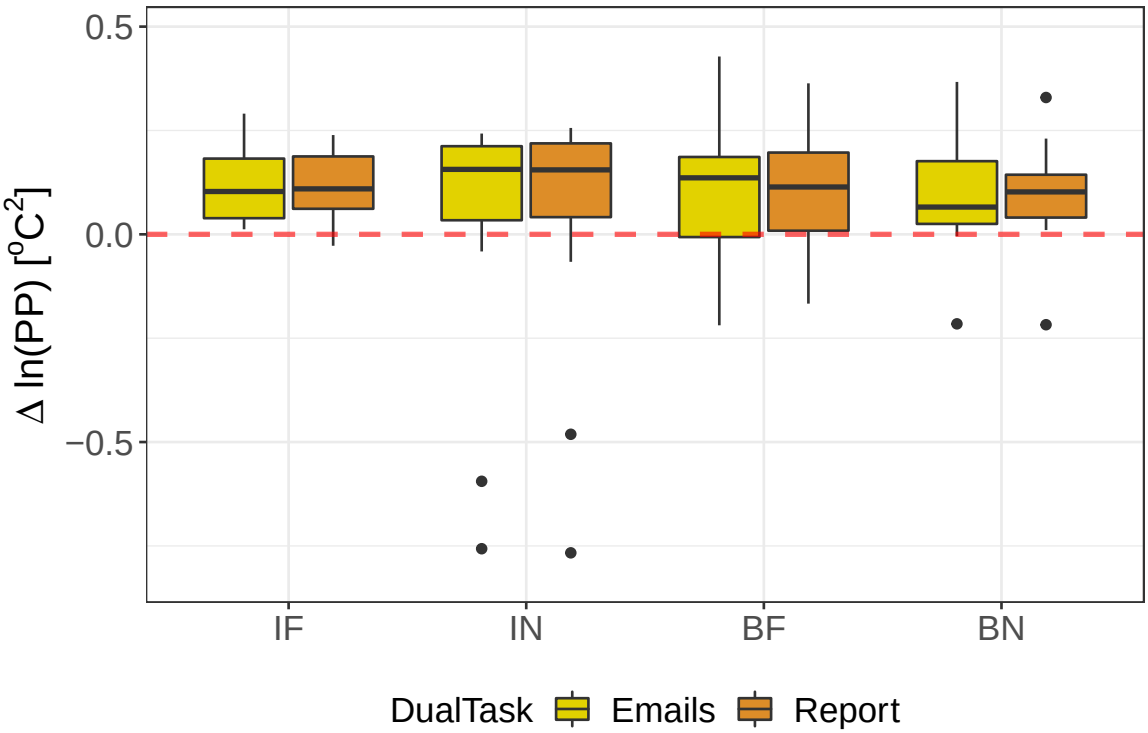

1.0
0.5
0.0
−0.5
Δ ln(PP)
SingleTask
DualTask
Presentation
Group
BN
IN
BF
IF

Stress Levels for Dual Task

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + Group + DualTask + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##         AIC       BIC   logLik
##   -219.8249 -200.7332 116.9124
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:   0.1837314 0.02592463
##
## Fixed effects: PP ~ 1 + Group + DualTask
##                       Value  Std.Error DF    t-value p-value
## (Intercept)     0.09123570 0.05335544 58  1.7099606  0.0926
## GroupIN        -0.04546389 0.07051197 55 -0.6447685  0.5218
## GroupBF         0.01335891 0.07151219 55  0.1868060  0.8525
## GroupIF         0.02606173 0.07051197 55  0.3696073  0.7131
## DualTaskReport  0.00100238 0.00477311 58  0.2100049  0.8344
##  Correlation:
##                (Intr) GropIN GropBF GropIF
## GroupIN        -0.755
## GroupBF        -0.745  0.563
## GroupIF        -0.755  0.571  0.563
## DualTaskReport -0.045  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.38583941 -0.40862664 -0.01758885  0.36225199  1.94166440
##
## Number of Observations: 118
## Number of Groups: 59
```



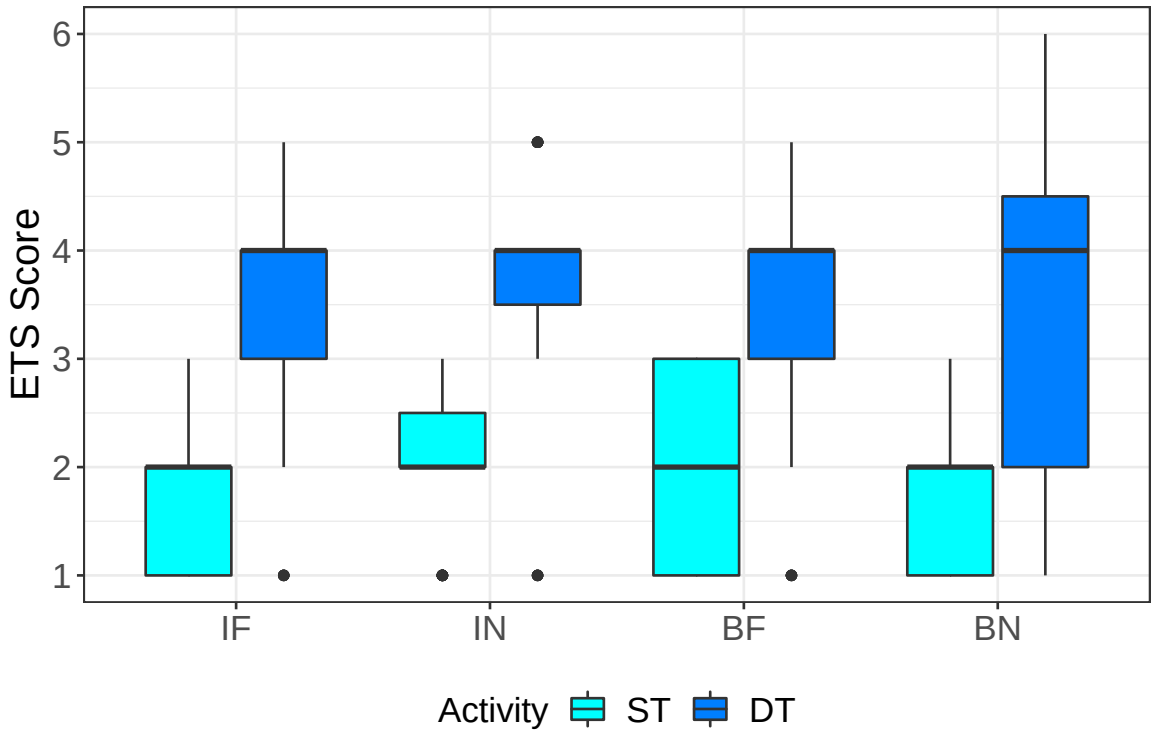

```
## Paired t-test
## For IF, p = 0.9543 > 0.05

## Paired t-test
## For IN, p = 0.5189 > 0.05

## Paired t-test
## For BF, p = 0.6713 > 0.05

## Paired t-test
## For BN, p = 0.7343 > 0.05
```

Linear Modelling for Writing Quality

Our Linear Model:

$$WritingQuality = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   981.0689 1009.628 -483.5344
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:    0.814411 0.6087496
##
## Fixed effects: Score ~ 1 + Group + Activity
##                 Value Std.Error  DF   t-value p-value
## (Intercept) 1.7429787 0.2554519 386  6.823119  0.0000
## GroupIN     0.3174245 0.3342912  51  0.949545  0.3468
## GroupBF     0.2359883 0.3395694  51  0.694963  0.4902
## GroupIF     0.1486021 0.3356527  51  0.442726  0.6598
## ActivityDT  1.6787330 0.0579105 386 28.988391  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF
## GroupIN    -0.754
## GroupBF    -0.743  0.567
## GroupIF    -0.751  0.574  0.565
## ActivityDT -0.113  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##          Min           Q1          Med           Q3          Max
## -2.321866709 -0.505306825 -0.003345496  0.530827311  2.106111034
##
## Number of Observations: 442
## Number of Groups: 55
```



Activity	Group	n
ST	BN	47
ST	IN	63
ST	BF	56
ST	IF	55
DT	BN	47
DT	IN	63
DT	BF	56
DT	IF	55

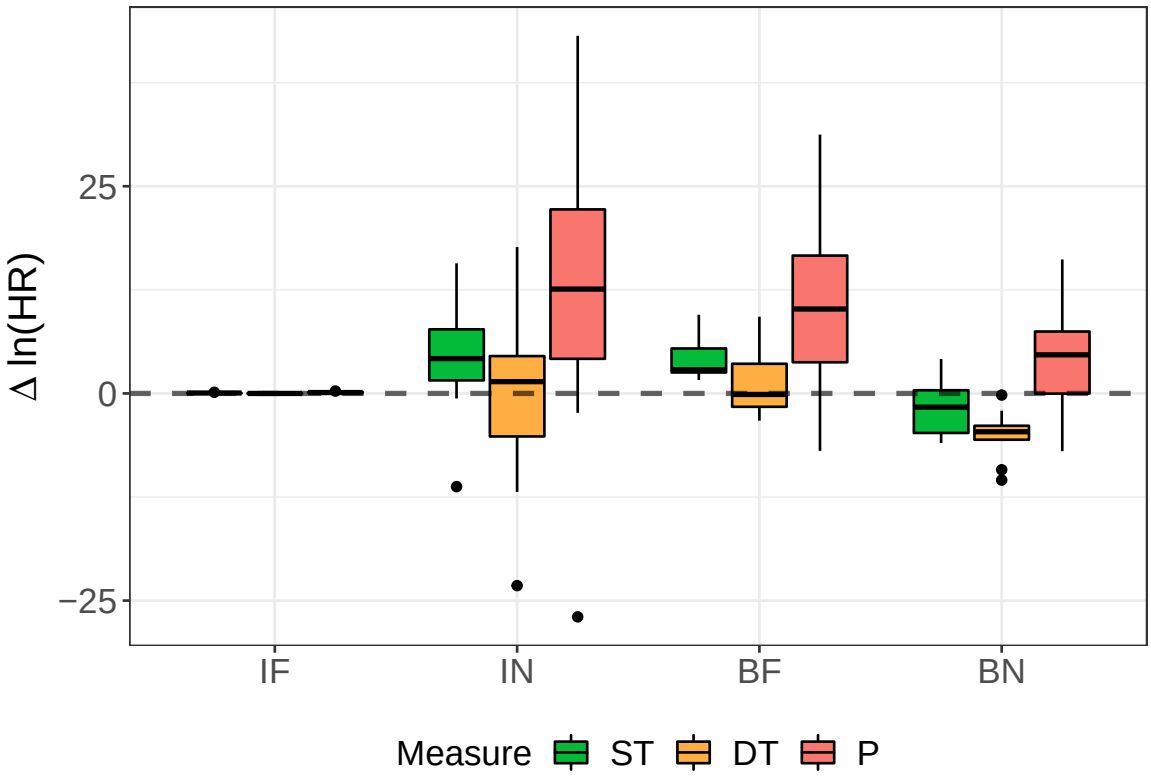
HR, 4 Groups:

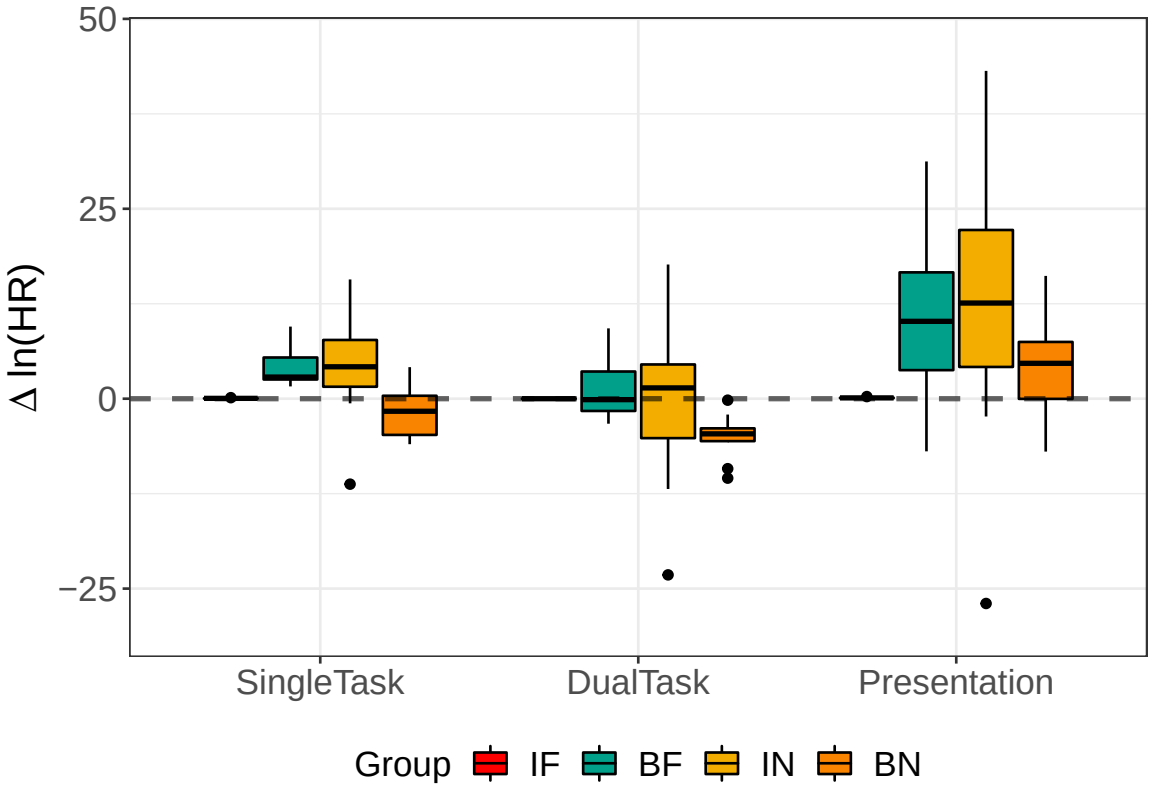
Stress Levels Across Activities

Our Linear Model:

$$\Delta \bar{HR} = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##        AIC      BIC    logLik
##   1296.409 1325.537 -639.2047
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:    4.880536 5.750247
##
## Fixed effects: HR ~ 1 + Group + Activity
##                 Value Std.Error  DF   t-value p-value
## (Intercept) -0.743933  1.930037 142 -0.385450  0.7005
## GroupIN      4.233645  2.356335  46  1.796708  0.0789
## GroupBF      5.710611  2.320482  46  2.460960  0.0177
## GroupIF      0.986953  2.484393  46  0.397261  0.6930
## ActivityB   -2.489561  1.150049 142 -2.164743  0.0321
## ActivityDT  -3.145336  1.150049 142 -2.734958  0.0070
## ActivityP    5.448302  1.188657 142  4.583577  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF ActvtB ActvDT
## GroupIN     -0.712
## GroupBF     -0.722  0.591
## GroupIF     -0.674  0.552  0.561
## ActivityB   -0.298  0.000  0.000  0.000
## ActivityDT -0.298  0.000  0.000  0.000  0.500
## ActivityP   -0.288  0.003 -0.003 -0.001  0.484  0.484
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.33847227 -0.46637341  0.02242794  0.41112262  4.74698594
##
## Number of Observations: 195
## Number of Groups: 50
```


Δ ln(HR)
25
0
−25
IF
IN
BF
BN
Measure
ST
DT
P

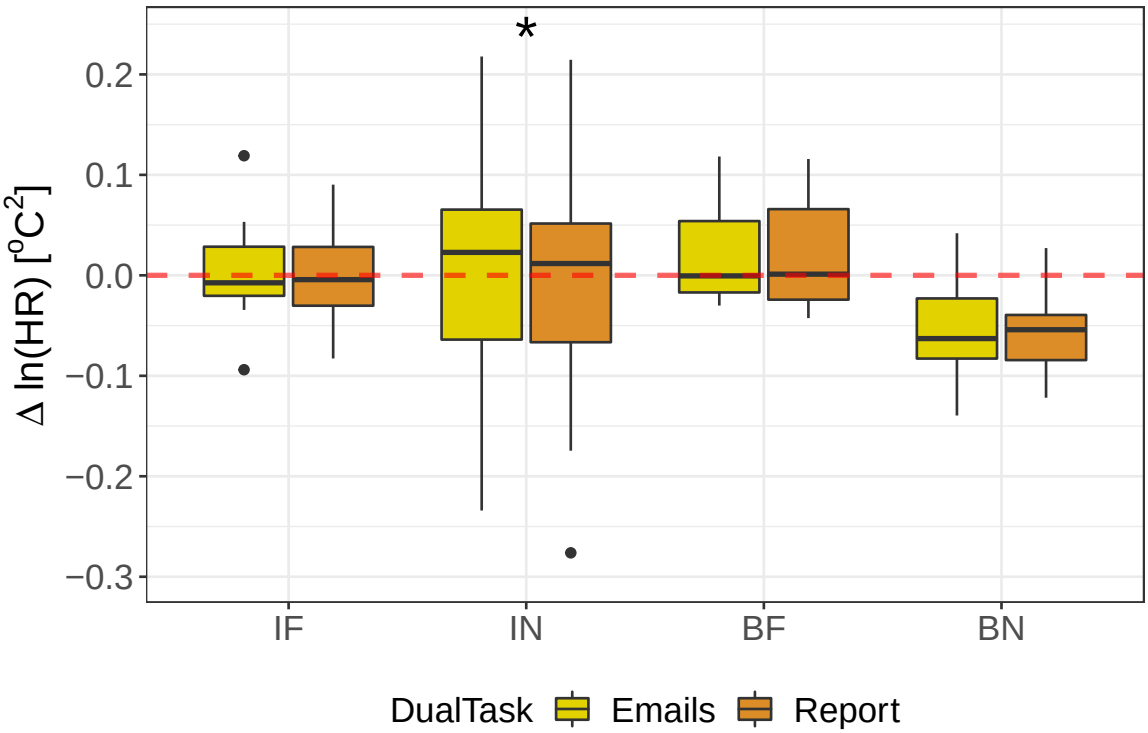

Δ ln(HR)
50
25
0
−25
SingleTask
DualTask
Presentation
Group
IF
BF
IN
BN

Stress Levels for Dual Task

Our Linear Model:

$$\Delta\bar{HR} = 1 + Group + DualTask + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##         AIC       BIC   logLik
##   -307.1486 -289.4204 160.5743
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:  0.07321737 0.01583616
##
## Fixed effects: HR ~ 1 + Group + DualTask
##                       Value  Std.Error DF   t-value p-value
## (Intercept)    -0.05379215 0.02347715 48 -2.291256  0.0264
## GroupIN         0.05116138 0.03066736 45  1.668268  0.1022
## GroupBF         0.07642950 0.03066736 45  2.492210  0.0164
## GroupIF         0.05853161 0.03236295 45  1.808599  0.0772
## DualTaskReport -0.00505697 0.00319939 48 -1.580607  0.1205
##  Correlation:
##                (Intr) GropIN GropBF GropIF
## GroupIN        -0.762
## GroupBF        -0.762  0.583
## GroupIF        -0.722  0.553  0.553
## DualTaskReport -0.068  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -1.81064732 -0.37964397  0.05307473  0.37177422  1.99938726
##
## Number of Observations: 98
## Number of Groups: 49
```



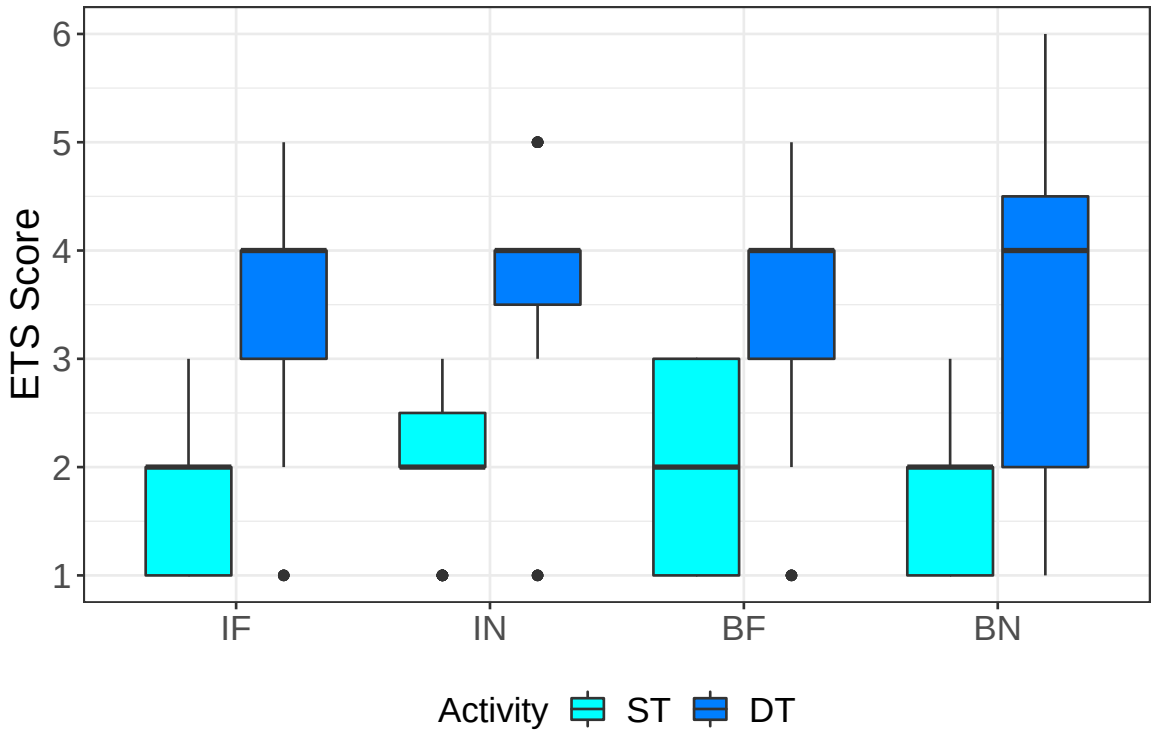

```
## Paired t-test
## For IF, p = 0.5041 > 0.05

## Paired t-test
## For IN, p = 0.0451 < 0.05  *

## Paired t-test
## For BF, p = 0.8961 > 0.05

## Paired t-test
## For BN, p = 0.8016 > 0.05
```

Linear Modelling for Writing Quality

Our Linear Model:

$$WritingQuality = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   981.0689 1009.628 -483.5344
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:    0.814411 0.6087496
##
## Fixed effects: Score ~ 1 + Group + Activity
##                 Value Std.Error  DF   t-value p-value
## (Intercept) 1.7429787 0.2554519 386  6.823119  0.0000
## GroupIN     0.3174245 0.3342912  51  0.949545  0.3468
## GroupBF     0.2359883 0.3395694  51  0.694963  0.4902
## GroupIF     0.1486021 0.3356527  51  0.442726  0.6598
## ActivityDT  1.6787330 0.0579105 386 28.988391  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF
## GroupIN    -0.754
## GroupBF    -0.743  0.567
## GroupIF    -0.751  0.574  0.565
## ActivityDT -0.113  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##          Min           Q1          Med           Q3          Max
## -2.321866709 -0.505306825 -0.003345496  0.530827311  2.106111034
##
## Number of Observations: 442
## Number of Groups: 55
```



Activity	Group	n
ST	BN	47
ST	IN	63
ST	BF	56
ST	IF	55
DT	BN	47
DT	IN	63
DT	BF	56
DT	IF	55

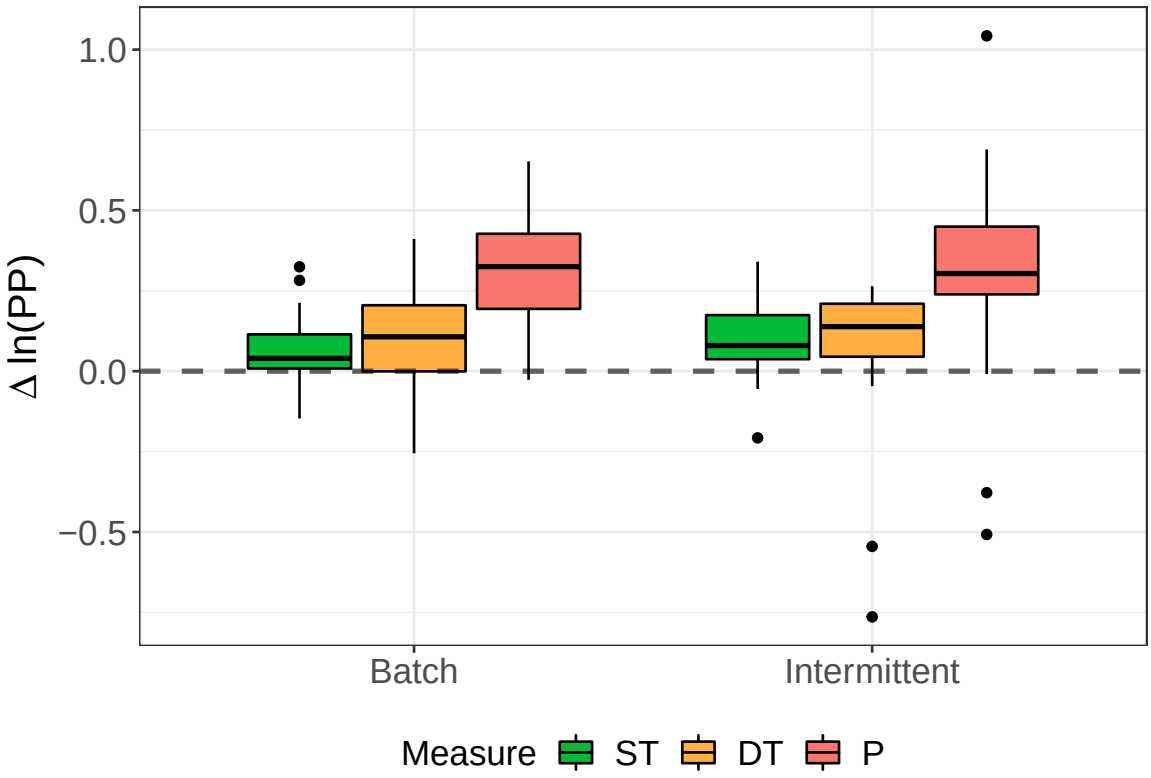
PP, 2 Groups:

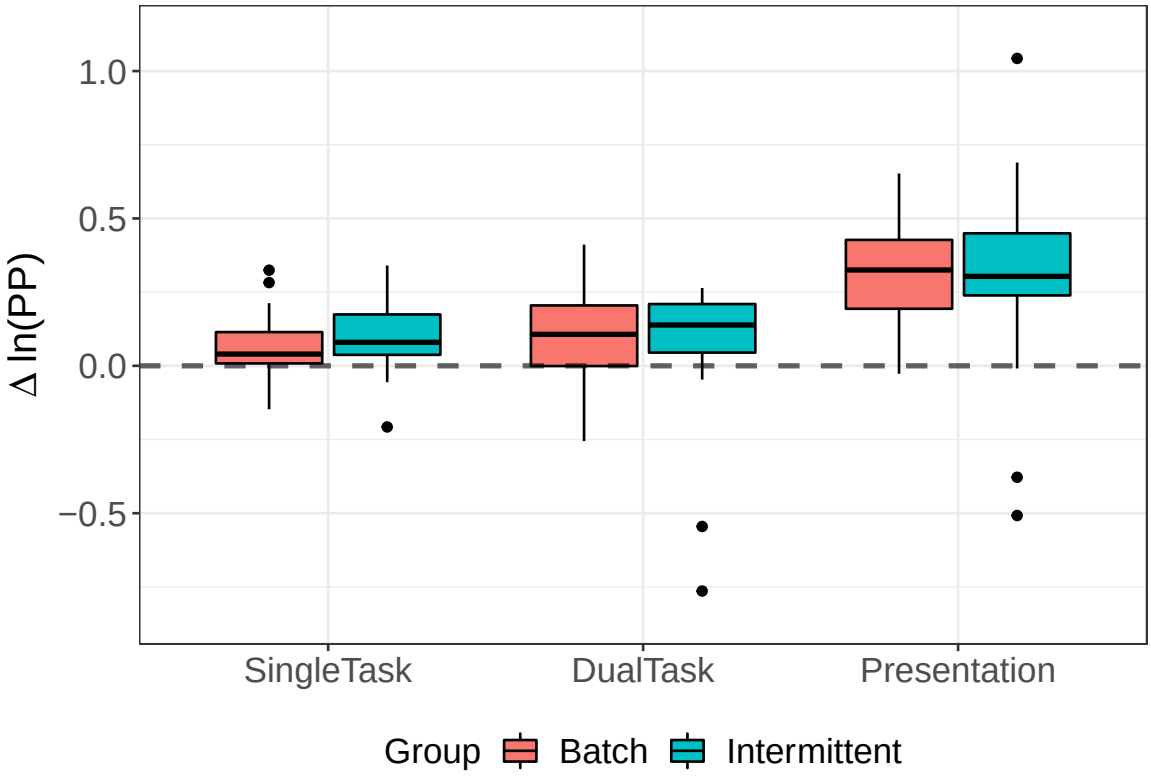
Stress Levels Across Activities

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##         AIC       BIC   logLik
##   -174.6324 -150.4451 94.31618
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1340924 0.1251043
##
## Fixed effects: PP ~ 1 + Group + Activity
##                         Value  Std.Error  DF   t-value p-value
## (Intercept)        0.07594154 0.03127138 176  2.428468  0.0162
## GroupIntermittent  0.00923660 0.03830548  58  0.241130  0.8103
## ActivityB         -0.04699852 0.02284082 176 -2.057655  0.0411
## ActivityDT         0.00841038 0.02284082 176  0.368217  0.7132
## ActivityP          0.23400636 0.02296238 176 10.190857  0.0000
##  Correlation:
##                   (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.653
## ActivityB         -0.365  0.000
## ActivityDT        -0.365  0.000  0.500
## ActivityP         -0.365  0.003  0.497  0.497
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.70090206 -0.38874392 -0.05276656  0.43831677  4.34215210
##
## Number of Observations: 239
## Number of Groups: 60
```


1.0
0.5
0.0
−0.5
Δ ln(PP)
Batch
Intermittent
Measure
ST
DT
P

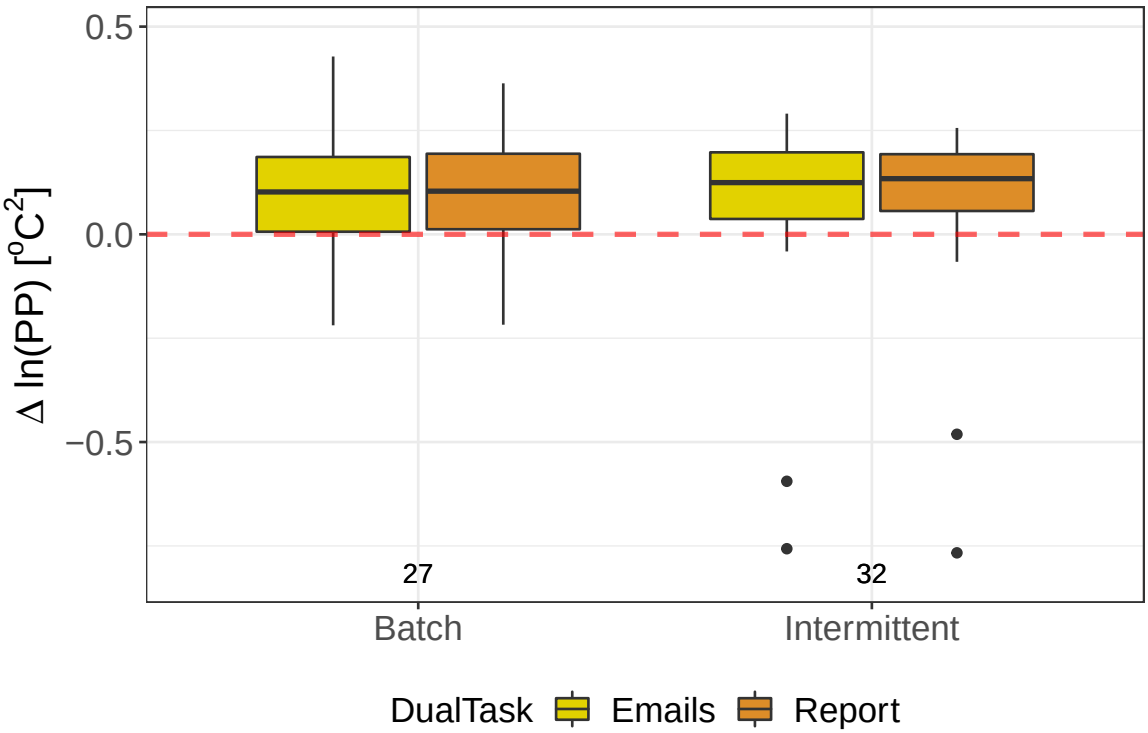

1.0
0.5
0.0
−0.5
Δ ln(PP)
SingleTask
DualTask
Presentation
Group
Batch
Intermittent

Stress Levels for Dual Task

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + Group + DualTask + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##         AIC       BIC   logLik
##   -229.6528 -215.9282 119.8264
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:   0.1824825 0.02592463
##
## Fixed effects: PP ~ 1 + Group + DualTask
##                          Value  Std.Error DF    t-value p-value
## (Intercept)        0.09865731 0.03537612 58  2.7888109  0.0071
## GroupIntermittent -0.01712269 0.04792595 57 -0.3572740  0.7222
## DualTaskReport     0.00100238 0.00477311 58  0.2100048  0.8344
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.735
## DualTaskReport    -0.067  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.40264073 -0.41511733 -0.01463149  0.36467698  1.92486177
##
## Number of Observations: 118
## Number of Groups: 59
```



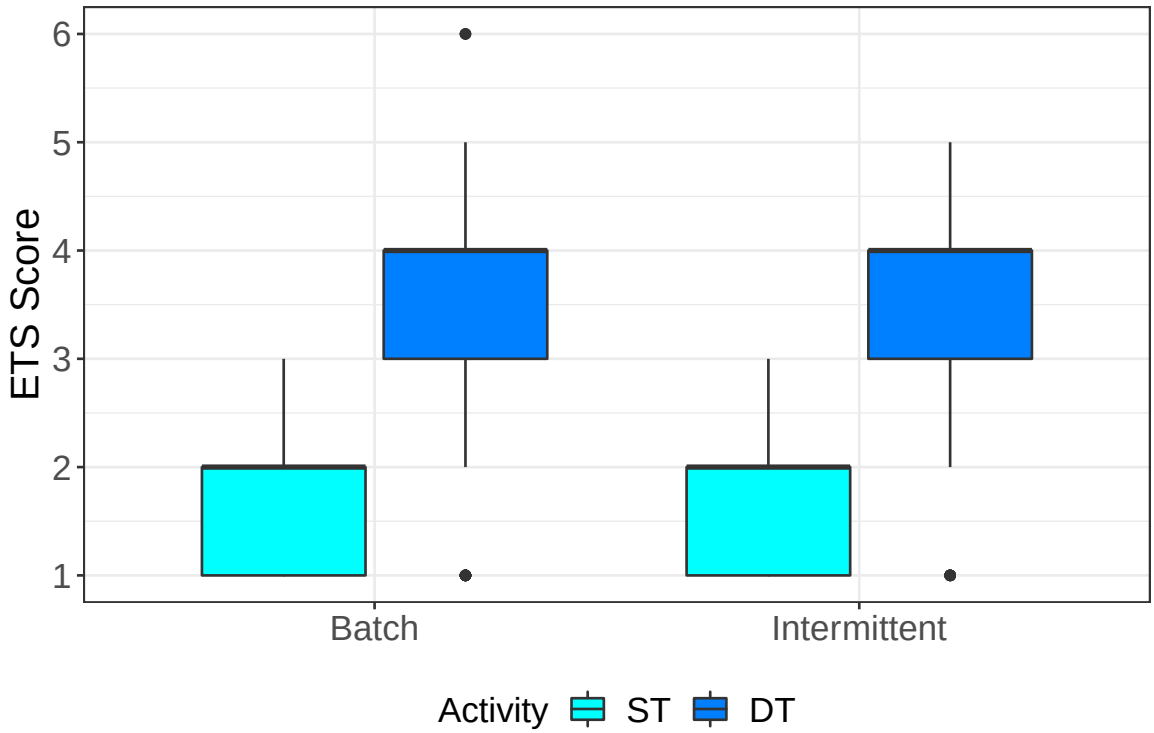

```
## Paired t-test
## For Batch, p = 0.8458 > 0.05

## Paired t-test
## For Intermittent, p = 0.5569 > 0.05
```

Linear Modelling for Writing Quality

Our Linear Model:

$$WritingQuality = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   977.2116 997.6341 -483.6058
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.8064131 0.6087033
##
## Fixed effects: Score ~ 1 + Group + Activity
##                       Value  Std.Error  DF   t-value p-value
## (Intercept)       1.9258824 0.16620476 386 11.587408  0.0000
## GroupIntermittent 0.0081728 0.22606216  53  0.036153  0.9713
## ActivityDT        1.6787330 0.05790613 386 28.990593  0.0000
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.713
## ActivityDT        -0.174  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.31313111 -0.49317975 -0.01265276  0.52538636  2.08831290
##
## Number of Observations: 442
## Number of Groups: 55
```



Activity	Group	n
ST	Batch	110
ST	Intermittent	111
DT	Batch	110
DT	Intermittent	111

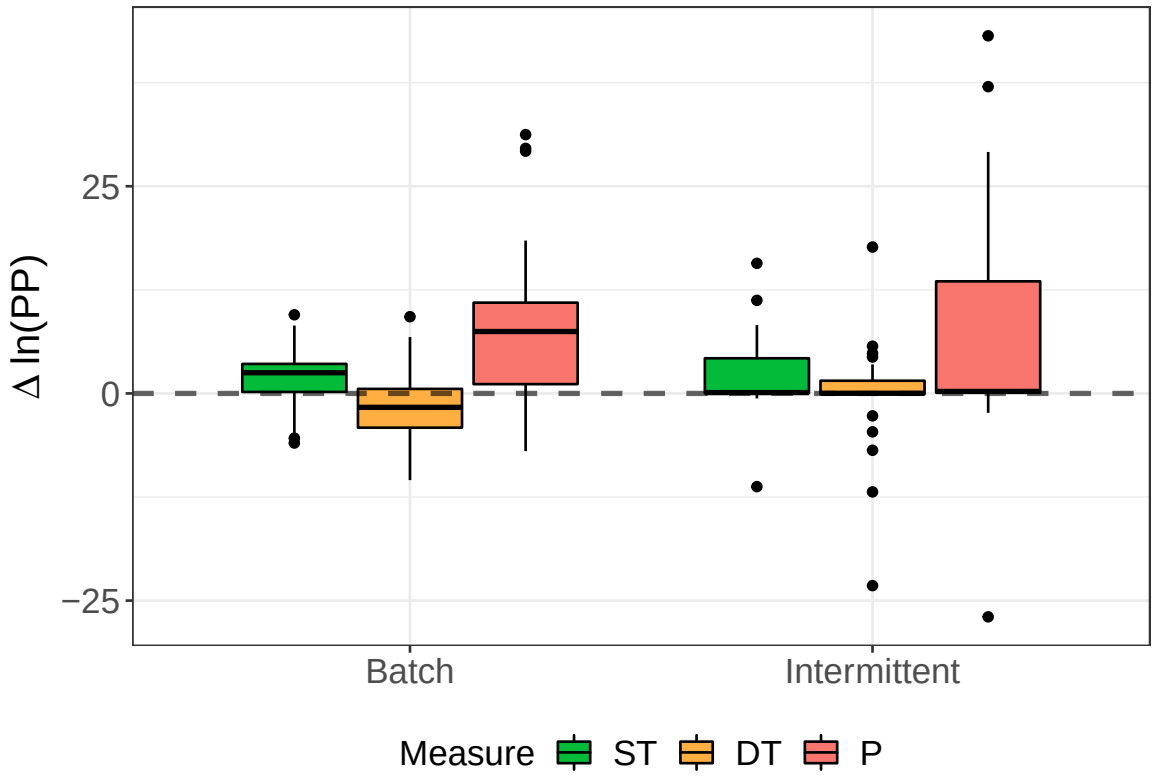
HR, 2 Groups:

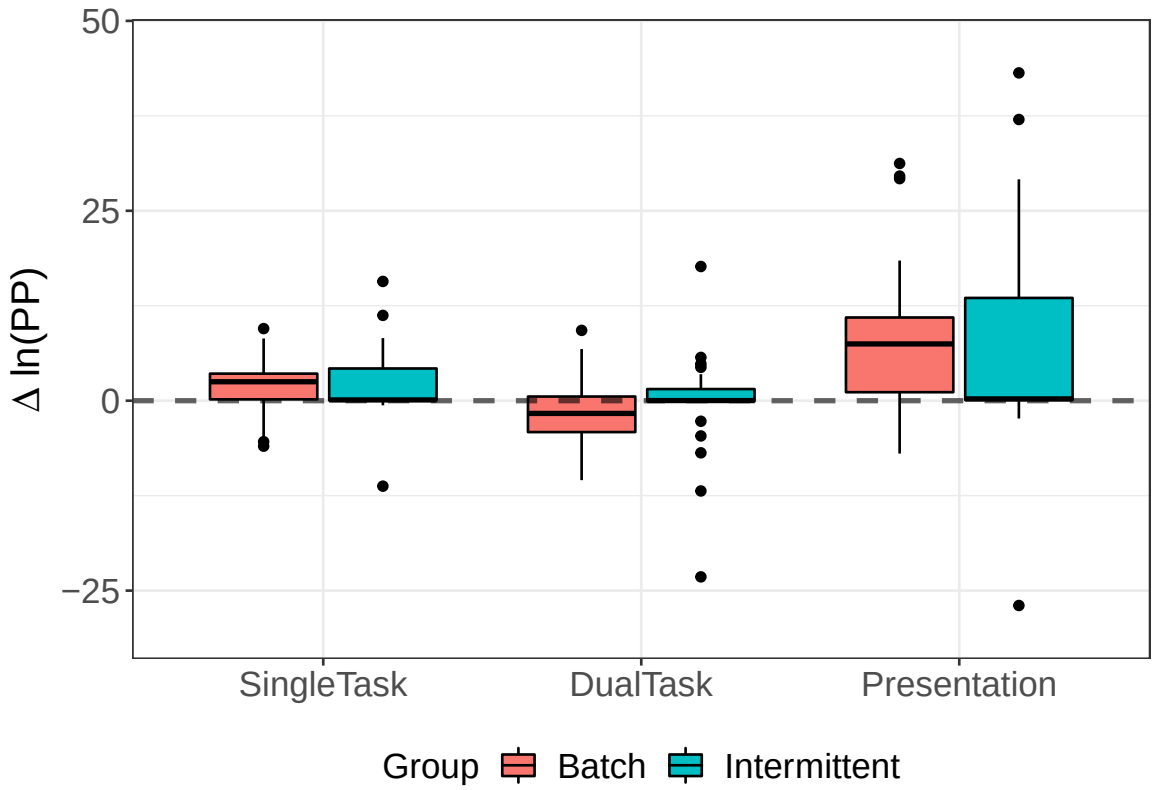
Stress Levels Across Activities

Our Linear Model:

$$\Delta \bar{HR} = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##        AIC      BIC    logLik
##   1307.122 1329.852 -646.5612
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:    5.288851 5.748322
##
## Fixed effects: HR ~ 1 + Group + Activity
##                       Value Std.Error  DF   t-value p-value
## (Intercept)        2.687030  1.396473 142  1.924155  0.0563
## GroupIntermittent -0.630458  1.708605  48 -0.368990  0.7138
## ActivityB         -2.489561  1.149665 142 -2.165468  0.0320
## ActivityDT        -3.145336  1.149665 142 -2.735873  0.0070
## ActivityP          5.453503  1.188591 142  4.588209  0.0000
##  Correlation:
##                   (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.612
## ActivityB         -0.412  0.000
## ActivityDT        -0.412  0.000  0.500
## ActivityP         -0.401  0.005  0.484  0.484
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.16749184 -0.43984930 -0.01692908  0.34907583  4.75663392
##
## Number of Observations: 195
## Number of Groups: 50
```


Δ ln(PP)
25
0
−25
Batch
Intermittent
Measure
ST
DT
P

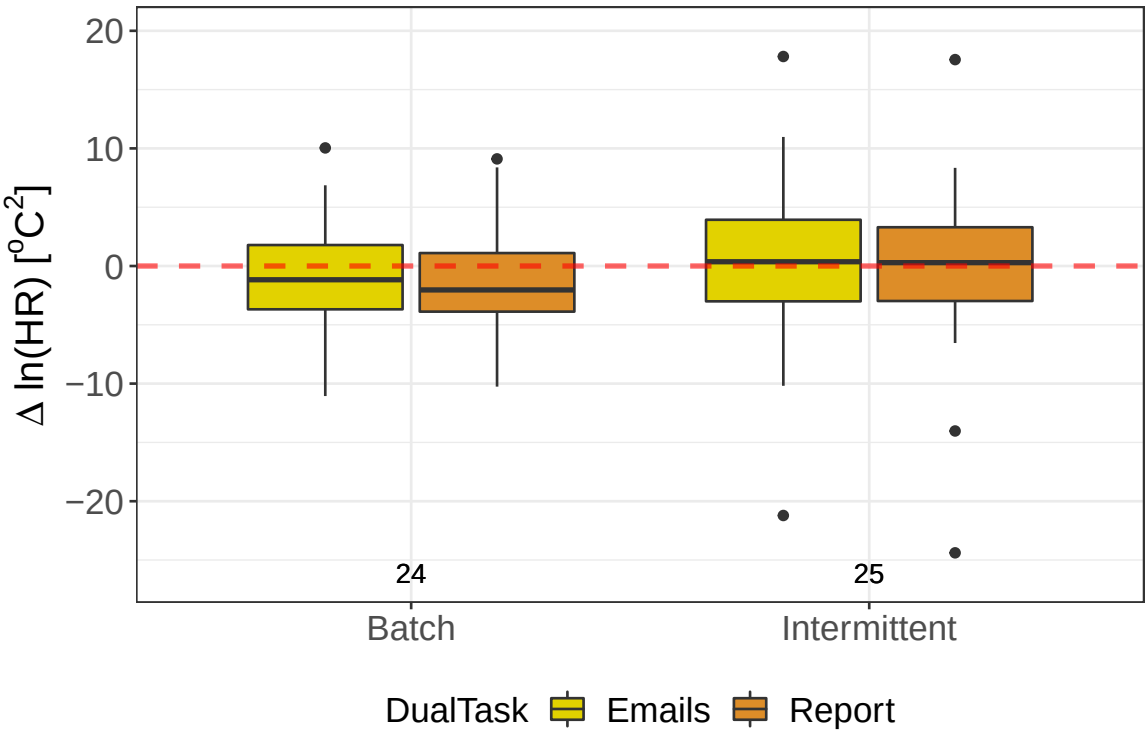

Δ ln(PP)
50
25
0
−25
SingleTask
DualTask
Presentation
Group
Batch
Intermittent

Stress Levels for Dual Task

Our Linear Model:

$$\Delta\bar{HR} = 1 + Group + DualTask + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##       AIC      BIC    logLik
##   515.109 527.8784 -252.5545
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:    6.261633 1.214272
##
## Fixed effects: HR ~ 1 + Group + DualTask
##                         Value Std.Error DF    t-value p-value
## (Intercept)       -0.8172903 1.2959290 48 -0.6306598  0.5313
## GroupIntermittent  0.6449150 1.8061555 47  0.3570651  0.7226
## DualTaskReport    -0.3475312 0.2453199 48 -1.4166449  0.1630
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.711
## DualTaskReport    -0.095  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -1.97941501 -0.39621002  0.02999632  0.36759267  2.21433516
##
## Number of Observations: 98
## Number of Groups: 49
```



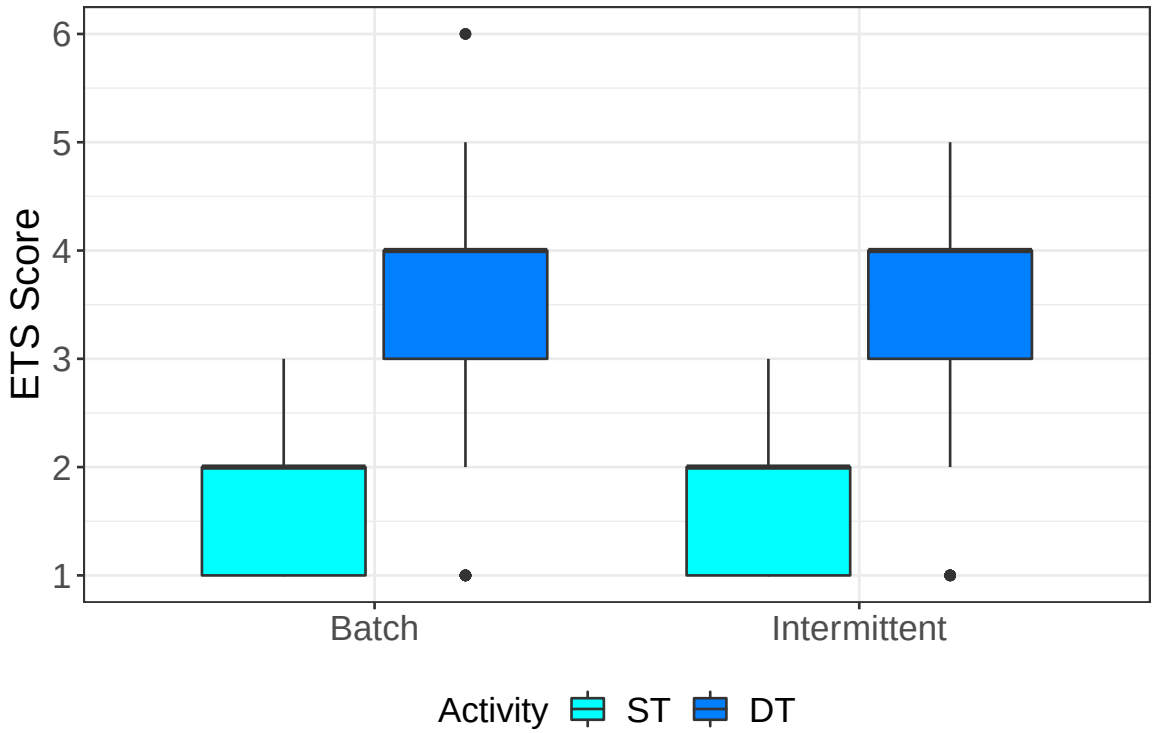

```
## Paired t-test
## For Batch, p = 0.8238 > 0.05

## Paired t-test
## For Intermittent, p = 0.0568 > 0.05
```

Linear Modelling for Writing Quality

Our Linear Model:

$$WritingQuality = 1 + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   977.2116 997.6341 -483.6058
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.8064131 0.6087033
##
## Fixed effects: Score ~ 1 + Group + Activity
##                       Value  Std.Error  DF   t-value p-value
## (Intercept)       1.9258824 0.16620476 386 11.587408  0.0000
## GroupIntermittent 0.0081728 0.22606216  53  0.036153  0.9713
## ActivityDT        1.6787330 0.05790613 386 28.990593  0.0000
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.713
## ActivityDT        -0.174  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.31313111 -0.49317975 -0.01265276  0.52538636  2.08831290
##
## Number of Observations: 442
## Number of Groups: 55
```



Activity	Group	n
ST	Batch	110
ST	Intermittent	111
DT	Batch	110
DT	Intermittent	111

Let's Get to 10 $\star$ with Four Groups

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + ETSScore + Group + Activity + 1|Subject$$

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##         AIC       BIC   logLik
##   -76.50526 -55.35014 46.25263
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1164717 0.1029231
##
## Fixed effects: PP ~ 1 + ETSScore + Group + Activity
##                   Value  Std.Error DF    t-value p-value
## (Intercept)  0.04374639 0.04897322 53  0.8932717  0.3757
## ETSScore    -0.00201482 0.01403069 53 -0.1436011  0.8864
## GroupIN      0.02821115 0.05469037 51  0.5158339  0.6082
## GroupBF      0.03893072 0.05543023 51  0.7023372  0.4857
## GroupIF      0.06249255 0.05455477 51  1.1455012  0.2573
## ActivityDT   0.00815219 0.03118546 53  0.2614101  0.7948
##  Correlation:
##             (Intr) ETSScr GropIN GropBF GropIF
## ETSScore    -0.495
## GroupIN     -0.601 -0.079
## GroupBF     -0.603 -0.058  0.570
## GroupIF     -0.624 -0.037  0.578  0.569
## ActivityDT  0.258 -0.777  0.062  0.045  0.028
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -4.24667880 -0.25108095 -0.01988641  0.36841233  2.19759445
##
## Number of Observations: 110
## Number of Groups: 55
```

Hey! Let's ANOVA!

Our ANOVA Model:

$$\Delta ln(\bar{PP}) = 1 + StressFactor + IntermittentFactor$$

```
##                    Df Sum Sq Mean Sq F value Pr(>F)
## StressFactor        1 0.0269 0.02686   0.776  0.382
## IntermittentFactor  1 0.0019 0.00189   0.055  0.816
## Residuals          57 1.9716 0.03459
```

```
##   Tukey multiple comparisons of means
##     95% family-wise confidence level
##
## Fit: aov(formula = PP ~ 1 + StressFactor + IntermittentFactor, data = diff_df, na.action = na.omi
##
## $StressFactor
##                 diff         lwr       upr     p adj
## High-Low 0.04240834 -0.05396565 0.1387823 0.3819299
##
## $IntermittentFactor
##                                       diff        lwr        upr     p adj
## Intermittent-Non-Intermittent -0.01121741 -0.1075914 0.08515658 0.8165372
```

Now a Linear Model Very Close to the ANOVA One Above:

Our Linear Model:

$$\Delta ln(\bar{PP}) = 1 + StressIndicator + IntermittencyIndicator + 1|Subjects$$

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##       AIC        BIC logLik
##   -10.504 -0.2887397 10.252
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:   0.1741412 0.06530311
##
## Fixed effects: PP ~ 1 + StressFactor + IntermittentFactor
##                                       Value  Std.Error DF    t-value
## (Intercept)                      0.07310314 0.04467167 57  1.6364543
## StressFactorHigh                 0.04160299 0.04825092 57  0.8622218
## IntermittentFactorIntermittent -0.01127494 0.04825092 57 -0.2336731
##                                    p-value
## (Intercept)                         0.1073
## StressFactorHigh                    0.3922
## IntermittentFactorIntermittent      0.8161
##  Correlation:
##                                   (Intr) StrsFH
## StressFactorHigh                  -0.617
## IntermittentFactorIntermittent -0.617  0.071
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -1.55894398 -0.12779499  0.05703779  0.21015290  0.55957653
##
## Number of Observations: 60
## Number of Groups: 60
```

Hey! Let's ANOVA 2: With Interaction Effects

Our ANOVA Model:

$$\Delta ln(\bar{PP}) = 1 + StressFactor + IntermittentFactor + StressFactor * IntermittentFactor$$

```
##                                 Df Sum Sq Mean Sq F value Pr(>F)
## StressFactor                     1 0.0269 0.02686   0.770  0.384
## IntermittentFactor               1 0.0019 0.00189   0.054  0.817
## StressFactor:IntermittentFactor  1 0.0173 0.01729   0.496  0.484
## Residuals                       56 1.9543 0.03490
```

```
##   Tukey multiple comparisons of means
##     95% family-wise confidence level
##
## Fit: aov(formula = PP ~ 1 + StressFactor * IntermittentFactor, data = diff_df, na.action = na.omi
##
## $StressFactor
##                 diff         lwr       upr     p adj
## High-Low 0.04240834 -0.05443244 0.1392491 0.3840959
##
## $IntermittentFactor
##                                       diff        lwr        upr     p adj
## Intermittent-Non-Intermittent -0.01121741 -0.1080582 0.08562337 0.8173509
##
## $`StressFactor:IntermittentFactor`
##                                                    diff        lwr
## High:Non-Intermittent-Low:Non-Intermittent  0.004751779 -0.1841480
## Low:Intermittent-Low:Non-Intermittent      -0.048126152 -0.2370259
## High:Intermittent-Low:Non-Intermittent      0.025063592 -0.1638362
## Low:Intermittent-High:Non-Intermittent     -0.052877931 -0.2277651
## High:Intermittent-High:Non-Intermittent     0.020311813 -0.1545754
## High:Intermittent-Low:Intermittent          0.073189744 -0.1016975
##                                                   upr     p adj
## High:Non-Intermittent-Low:Non-Intermittent 0.1936516 0.9998926
## Low:Intermittent-Low:Non-Intermittent      0.1407736 0.9062671
## High:Intermittent-Low:Non-Intermittent     0.2139634 0.9849637
## Low:Intermittent-High:Non-Intermittent     0.1220093 0.8538386
## High:Intermittent-High:Non-Intermittent    0.1951990 0.9898006
## High:Intermittent-Low:Intermittent         0.2480770 0.6860706
```