# Advanced Analysis

## PP, 4 Groups:

### Stress Levels Across Activities

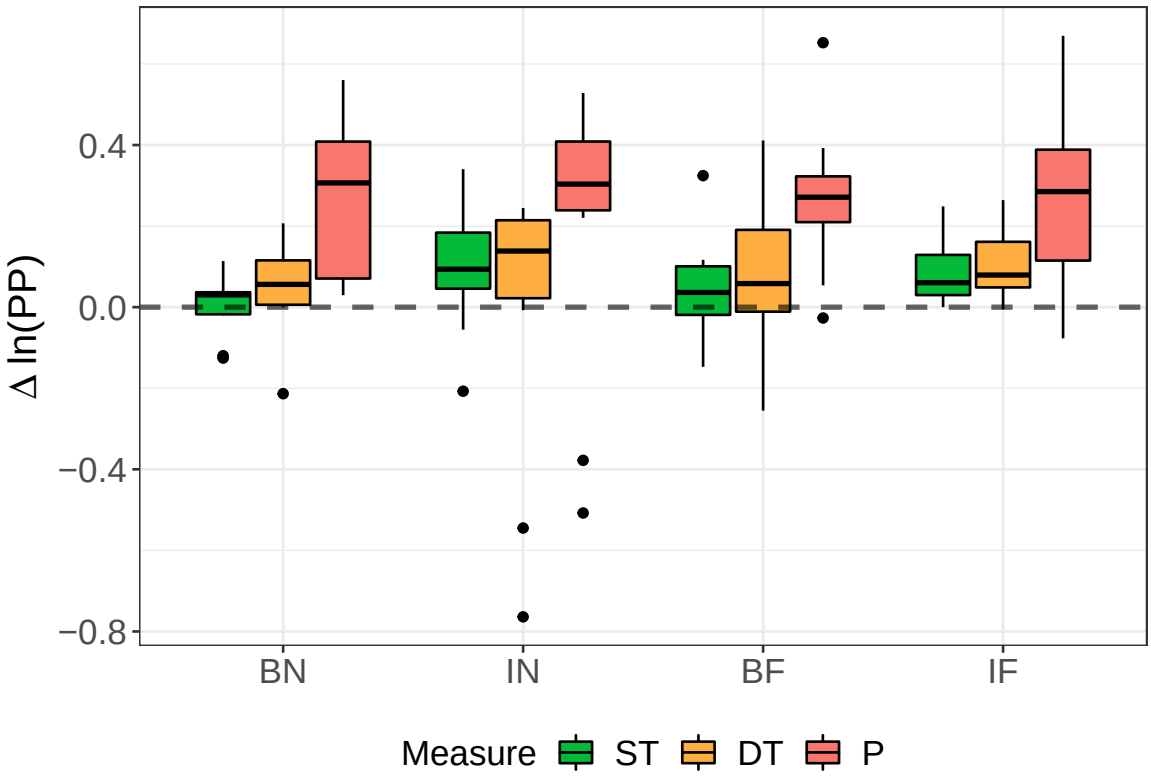
---

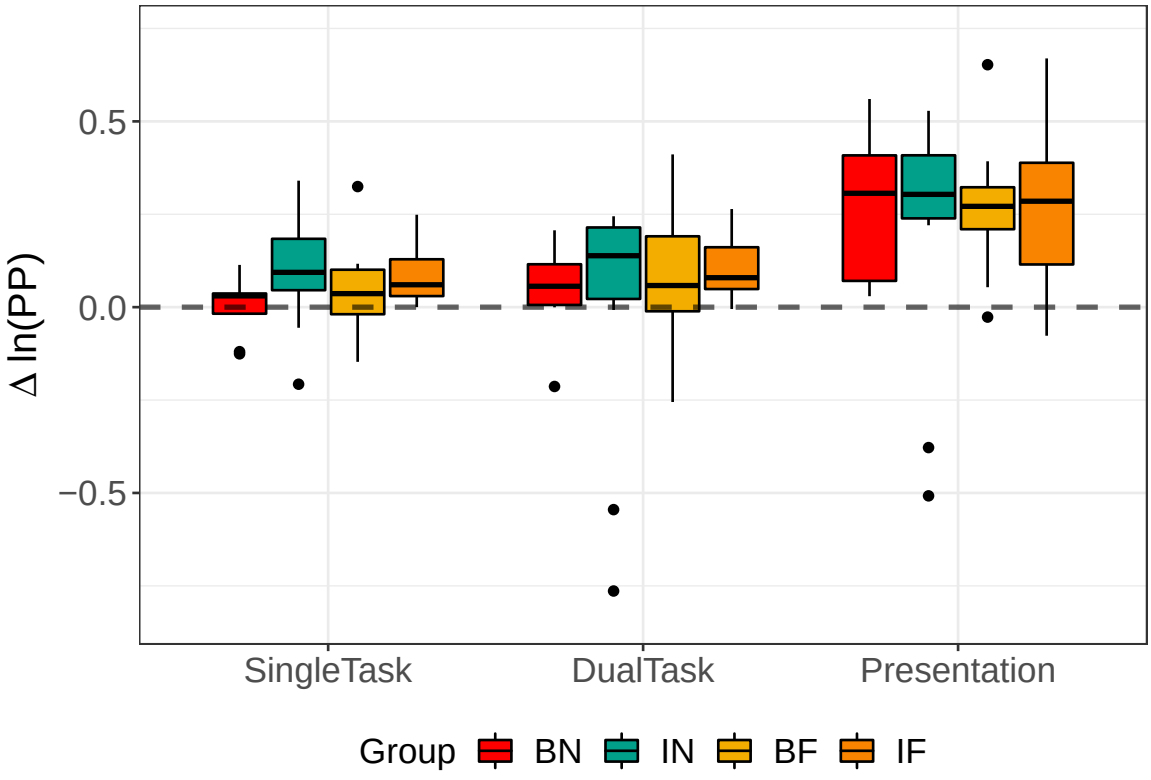
Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##         AIC       BIC   logLik
##   -117.0021 -88.16606 67.50106
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1497218 0.1235458
##
## Fixed effects: PP ~ 1 + Group + Activity
##                   Value  Std.Error  DF   t-value p-value
## (Intercept)  0.01067053 0.05357686 138  0.199163  0.8424
## GroupIN      0.04150181 0.06832174  44  0.607447  0.5467
## GroupBF      0.05580862 0.07251861  44  0.769577  0.4457
## GroupIF      0.08640404 0.06621580  44  1.304886  0.1987
## ActivityB   -0.04418403 0.02521869 138 -1.752035  0.0820
## ActivityDT   0.00053512 0.02521869 138  0.021219  0.9831
## ActivityP    0.19419465 0.02574954 138  7.541674  0.0000
##  Correlation:
##            (Intr) GropIN GropBF GropIF ActvtB ActvDT
## GroupIN    -0.720
## GroupBF    -0.678  0.532
## GroupIF    -0.742  0.583  0.549
## ActivityB  -0.235  0.000  0.000  0.000
## ActivityDT -0.235  0.000  0.000  0.000  0.500
## ActivityP  -0.228  0.003 -0.006 -0.006  0.490  0.490
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.34479580 -0.43416494 -0.09424565  0.40961423  2.43702855
##
## Number of Observations: 189
## Number of Groups: 48
```


0.4
0.0
−0.4
−0.8
Δ ln(PP)
BN
IN
BF
IF
Measure
ST
DT
P


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

### Stress Levels for Dual Task

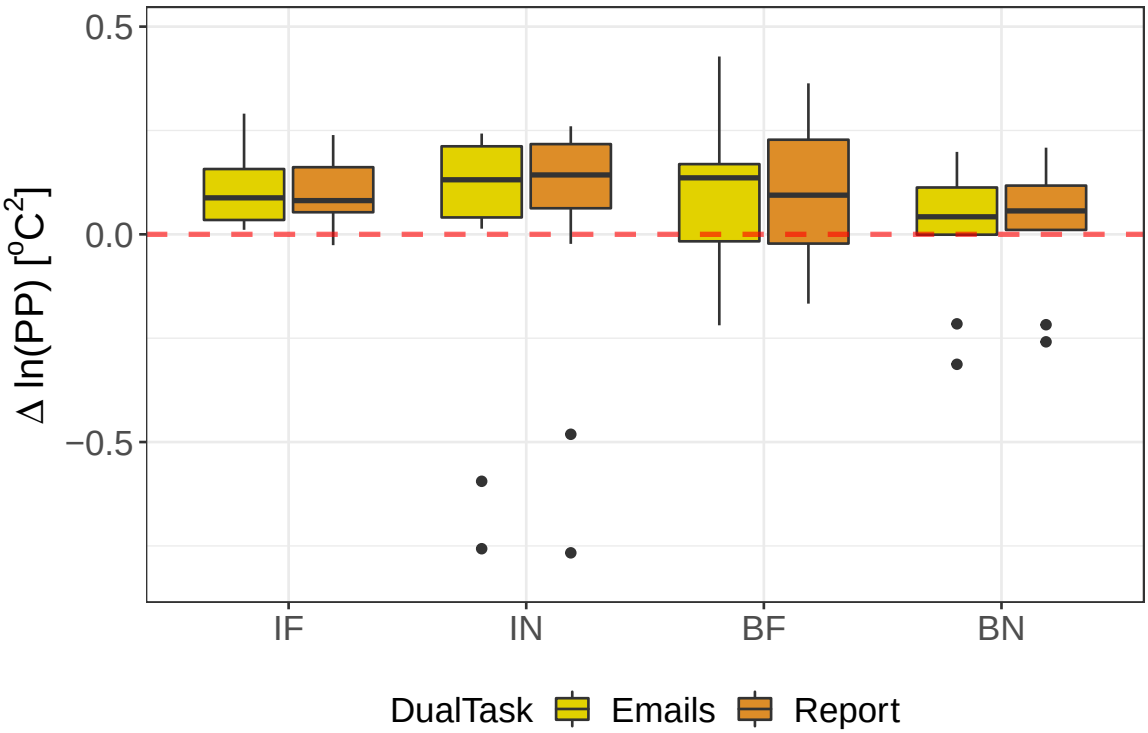
---

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
##   -163.3754 -145.9549 88.68768
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:   0.2012961 0.02539385
##
## Fixed effects: PP ~ 1 + Group + DualTask
##                     Value  Std.Error DF   t-value p-value
## (Intercept)    0.01532439 0.06396183 46 0.2395865  0.8117
## GroupIN        0.01031007 0.08500583 43 0.1212867  0.9040
## GroupBF        0.06525046 0.09285643 43 0.7027026  0.4860
## GroupIF        0.08618361 0.08250511 43 1.0445852  0.3021
## DualTaskReport 0.00859750 0.00523835 46 1.6412602  0.1076
##  Correlation:
##                (Intr) GropIN GropBF GropIF
## GroupIN        -0.751
## GroupBF        -0.688  0.517
## GroupIF        -0.774  0.582  0.533
## DualTaskReport -0.041  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##        Min         Q1        Med         Q3        Max
## -2.2359436 -0.3659408  0.0184483  0.3800783  1.8829193
##
## Number of Observations: 94
## Number of Groups: 47
```




```
## Paired t-test
## For IF, p = 0.5849 > 0.05

## Paired t-test
## For IN, p = 0.2818 > 0.05

## Paired t-test
## For BF, p = 0.6532 > 0.05

## Paired t-test
## For BN, p = 0.2855 > 0.05
```

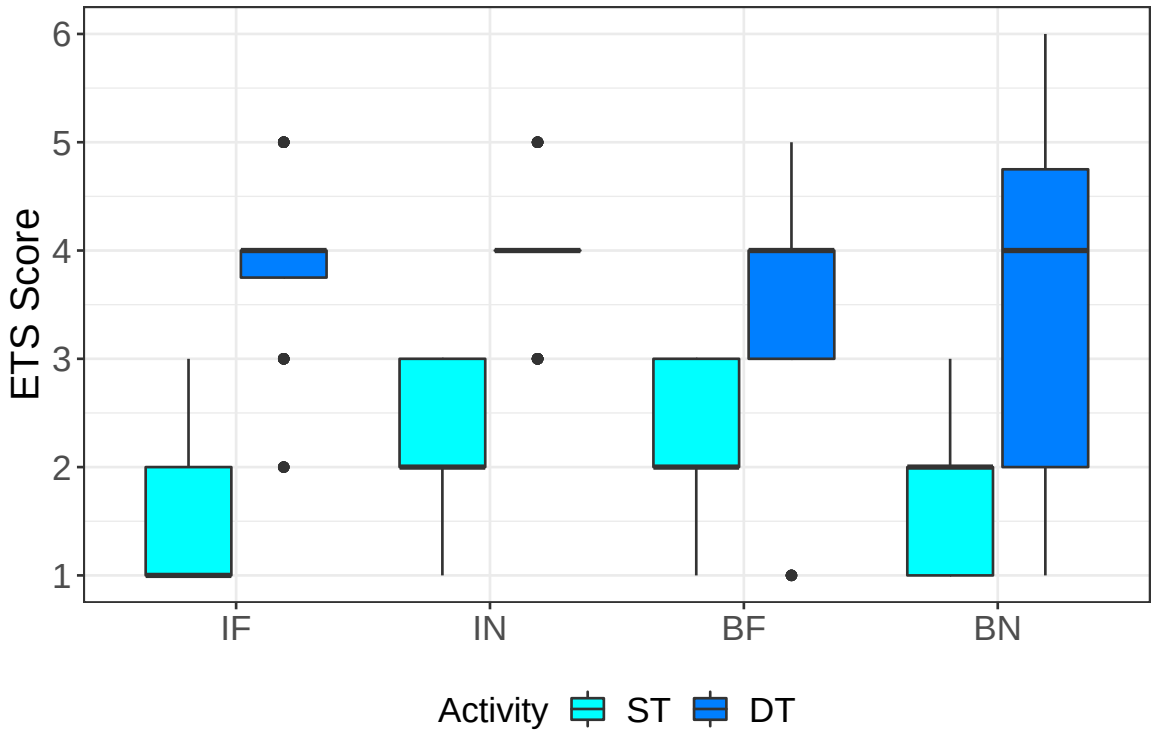
## Linear Modelling for Writing Quality

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   813.3664 841.2186 -399.6832
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.7425565 0.5501094
##
## Fixed effects: Score ~ 1 + Group + Activity
##                 Value Std.Error  DF  t-value p-value
## (Intercept) 1.6620758 0.2333235 347  7.12348  0.0000
## GroupIN     0.4165634 0.3053110  48  1.36439  0.1788
## GroupBF     0.4114557 0.3216693  48  1.27913  0.2070
## GroupIF     0.1325876 0.3107867  48  0.42662  0.6716
## ActivityDT  1.8450000 0.0550109 347 33.53878  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF
## GroupIN    -0.754
## GroupBF    -0.715  0.547
## GroupIF    -0.740  0.566  0.537
## ActivityDT -0.118  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.68842517 -0.71212271 -0.01163681  0.74268533  2.48327321
##
## Number of Observations: 400
## Number of Groups: 52
```




| Activity | Group | n |
|---|---|---|
| ST | BN | 46 |
| ST | IN | 59 |
| ST | BF | 43 |
| ST | IF | 52 |
| DT | BN | 46 |
| DT | IN | 59 |
| DT | BF | 43 |
| DT | IF | 52 |

**HR, 4 Groups:**

### Stress Levels Across Activities

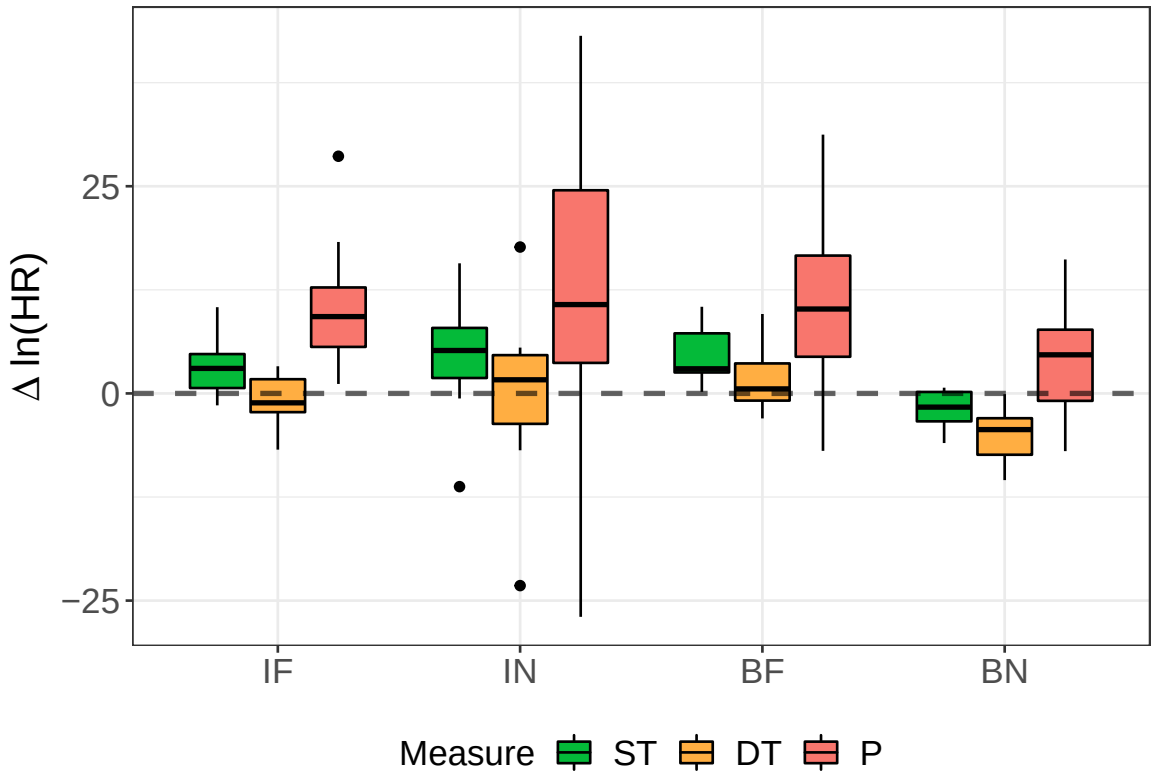
---

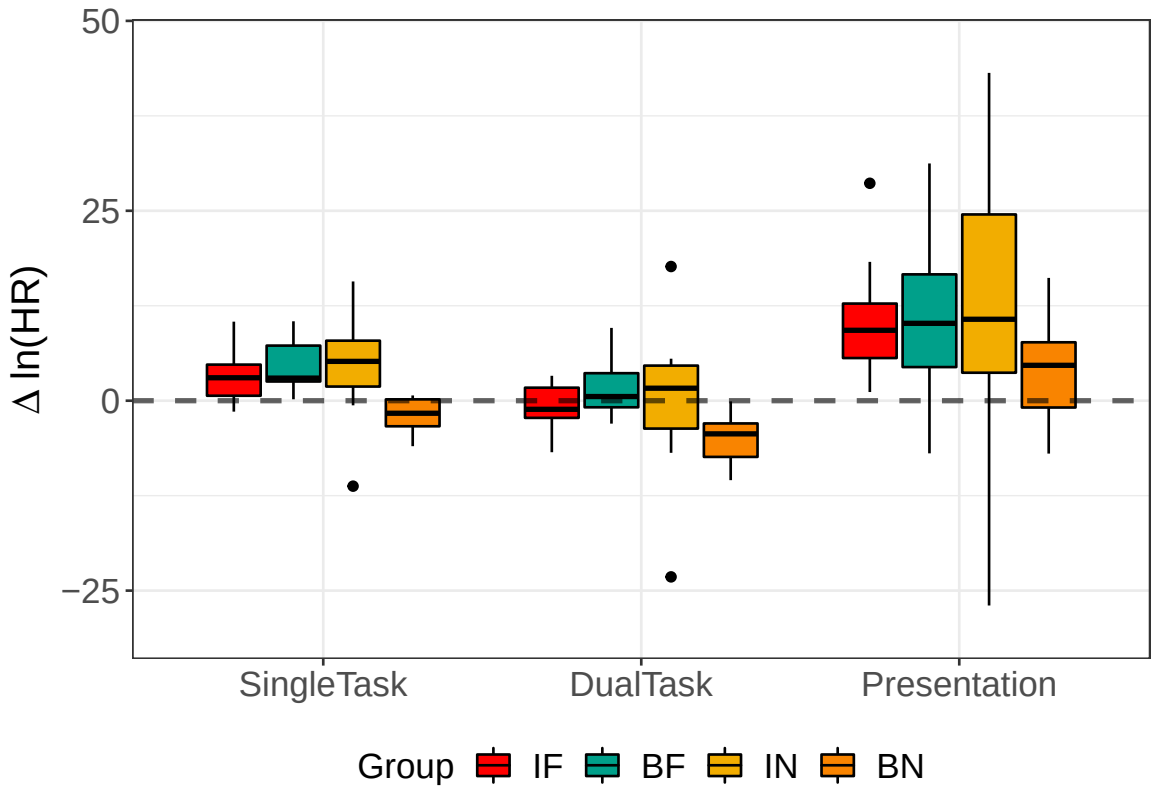
Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##        AIC      BIC    logLik
##   1254.437 1283.273 -618.2186
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:     4.97023 5.689257
##
## Fixed effects: HR ~ 1 + Group + Activity
##                 Value Std.Error  DF   t-value p-value
## (Intercept) -0.885644  2.046130 137 -0.432838  0.6658
## GroupIN      4.278192  2.467344  45  1.733926  0.0898
## GroupBF      6.069422  2.430091  45  2.497611  0.0162
## GroupIF      4.094181  2.590288  45  1.580589  0.1210
## ActivityB   -2.462404  1.149404 137 -2.142332  0.0339
## ActivityDT  -3.730290  1.149404 137 -3.245413  0.0015
## ActivityP    7.202201  1.207142 137  5.966327  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF ActvtB ActvDT
## GroupIN     -0.734
## GroupBF     -0.744  0.618
## GroupIF     -0.698  0.580  0.589
## ActivityB   -0.281  0.000  0.000  0.000
## ActivityDT -0.281  0.000  0.000  0.000  0.500
## ActivityP   -0.260 -0.001 -0.013 -0.010  0.476  0.476
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.59568167 -0.40905907  0.02708004  0.35913603  4.51555818
##
## Number of Observations: 189
## Number of Groups: 49
```


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

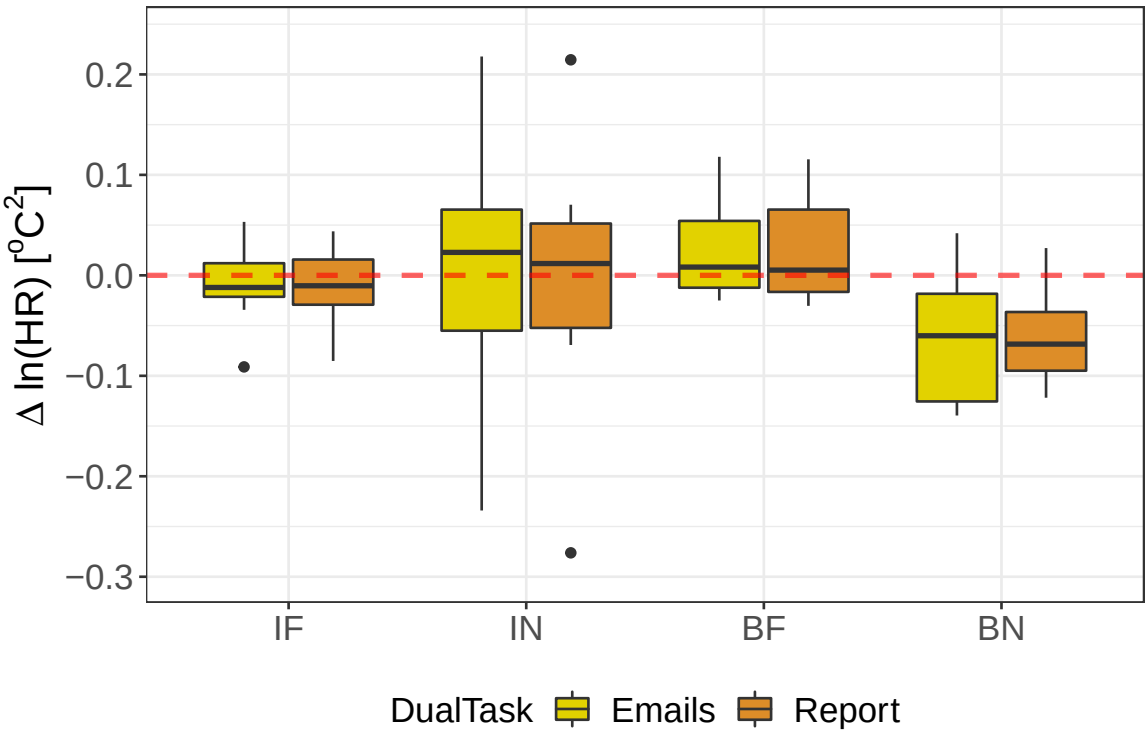
---

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##         AIC       BIC   logLik
##   -312.3311 -294.7551 163.1655
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:  0.06913645 0.01468389
##
## Fixed effects: HR ~ 1 + Group + DualTask
##                       Value   Std.Error DF    t-value p-value
## (Intercept)    -0.06062827 0.023352067 47 -2.5962698  0.0125
## GroupIN         0.06472257 0.029869574 44  2.1668393  0.0357
## GroupBF         0.08704844 0.029869574 44  2.9142846  0.0056
## GroupIF         0.05357653 0.031423010 44  1.7050094  0.0952
## DualTaskReport -0.00287140 0.002997337 47 -0.9579828  0.3430
##  Correlation:
##                (Intr) GropIN GropBF GropIF
## GroupIN        -0.779
## GroupBF        -0.779  0.609
## GroupIF        -0.740  0.579  0.579
## DualTaskReport -0.064  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##          Min           Q1          Med           Q3          Max
## -1.889191063 -0.417144413 -0.001957543  0.361793415  2.070980710
##
## Number of Observations: 96
## Number of Groups: 48
```




```
## Paired t-test
## For IF, p = 0.8626 > 0.05

## Paired t-test
## For IN, p = 0.1416 > 0.05

## Paired t-test
## For BF, p = 0.9277 > 0.05

## Paired t-test
## For BN, p = 0.7531 > 0.05
```

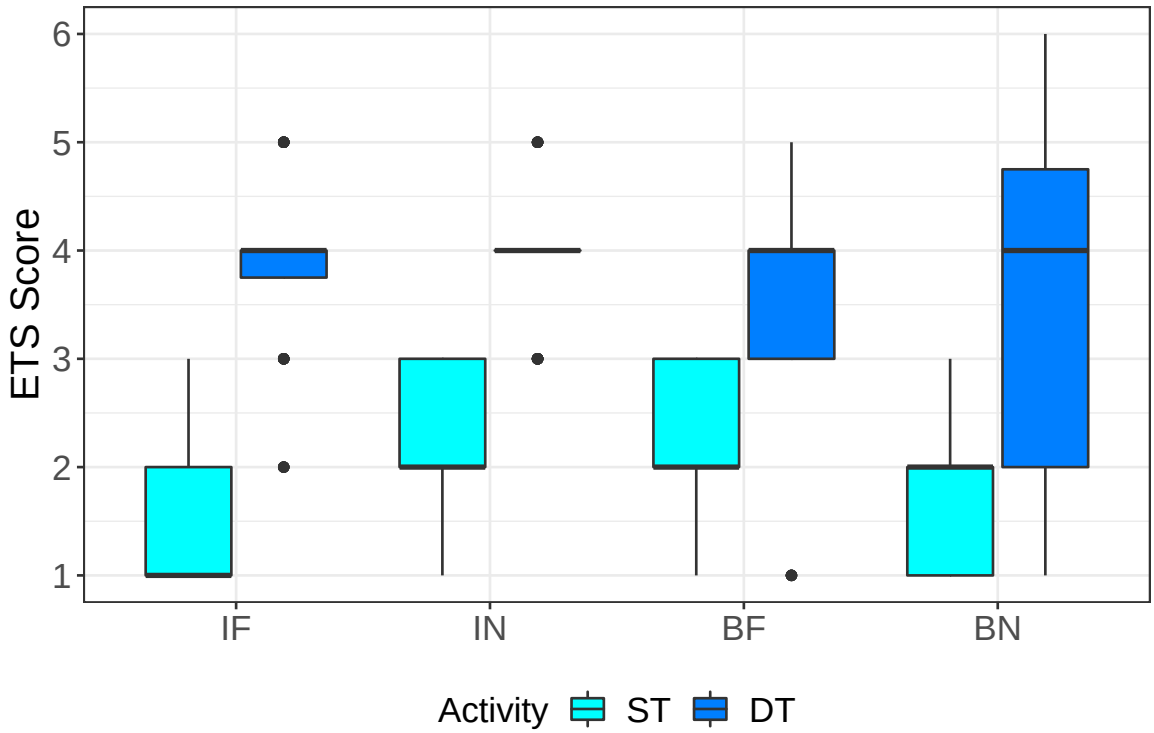
## Linear Modelling for Writing Quality

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC    logLik
##   813.3664 841.2186 -399.6832
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.7425565 0.5501094
##
## Fixed effects: Score ~ 1 + Group + Activity
##                 Value Std.Error  DF  t-value p-value
## (Intercept) 1.6620758 0.2333235 347  7.12348  0.0000
## GroupIN     0.4165634 0.3053110  48  1.36439  0.1788
## GroupBF     0.4114557 0.3216693  48  1.27913  0.2070
## GroupIF     0.1325876 0.3107867  48  0.42662  0.6716
## ActivityDT  1.8450000 0.0550109 347 33.53878  0.0000
##  Correlation:
##             (Intr) GropIN GropBF GropIF
## GroupIN    -0.754
## GroupBF    -0.715  0.547
## GroupIF    -0.740  0.566  0.537
## ActivityDT -0.118  0.000  0.000  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.68842517 -0.71212271 -0.01163681  0.74268533  2.48327321
##
## Number of Observations: 400
## Number of Groups: 52
```




| Activity | Group | n |
|---|---|---|
| ST | BN | 46 |
| ST | IN | 59 |
| ST | BF | 43 |
| ST | IF | 52 |
| DT | BN | 46 |
| DT | IN | 59 |
| DT | BF | 43 |
| DT | IF | 52 |

## PP, 2 Groups:

### Stress Levels Across Activities

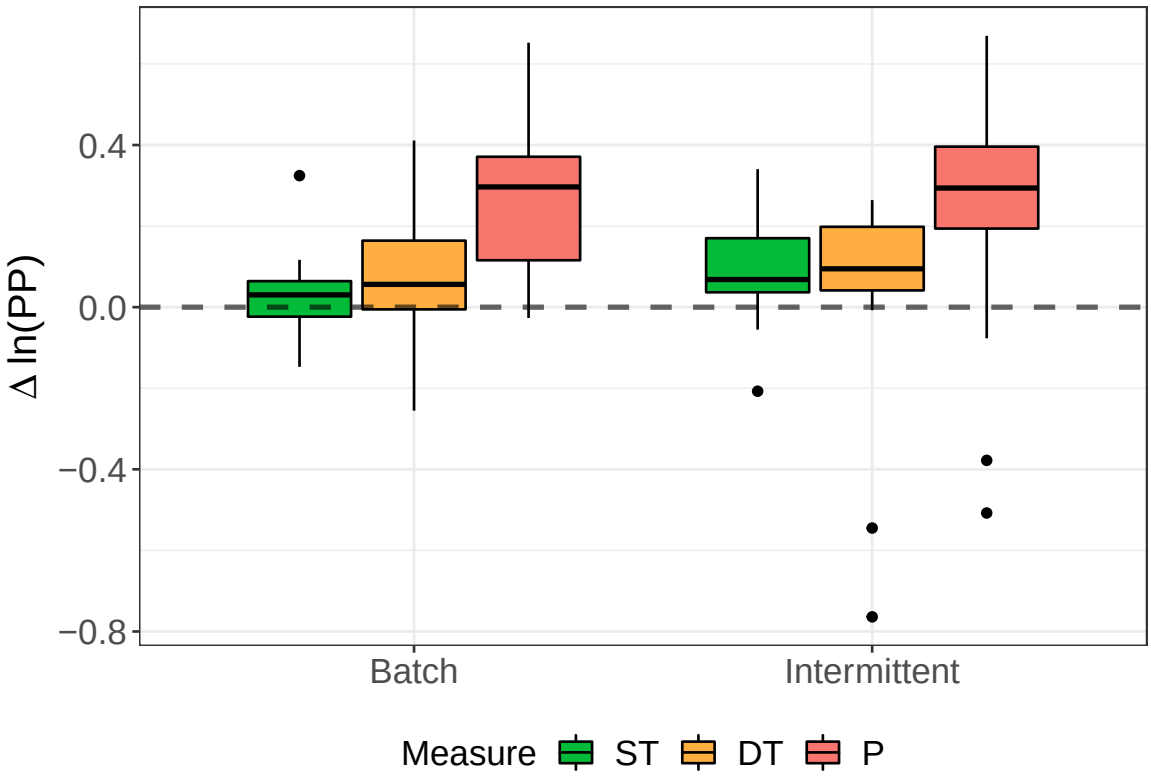
---

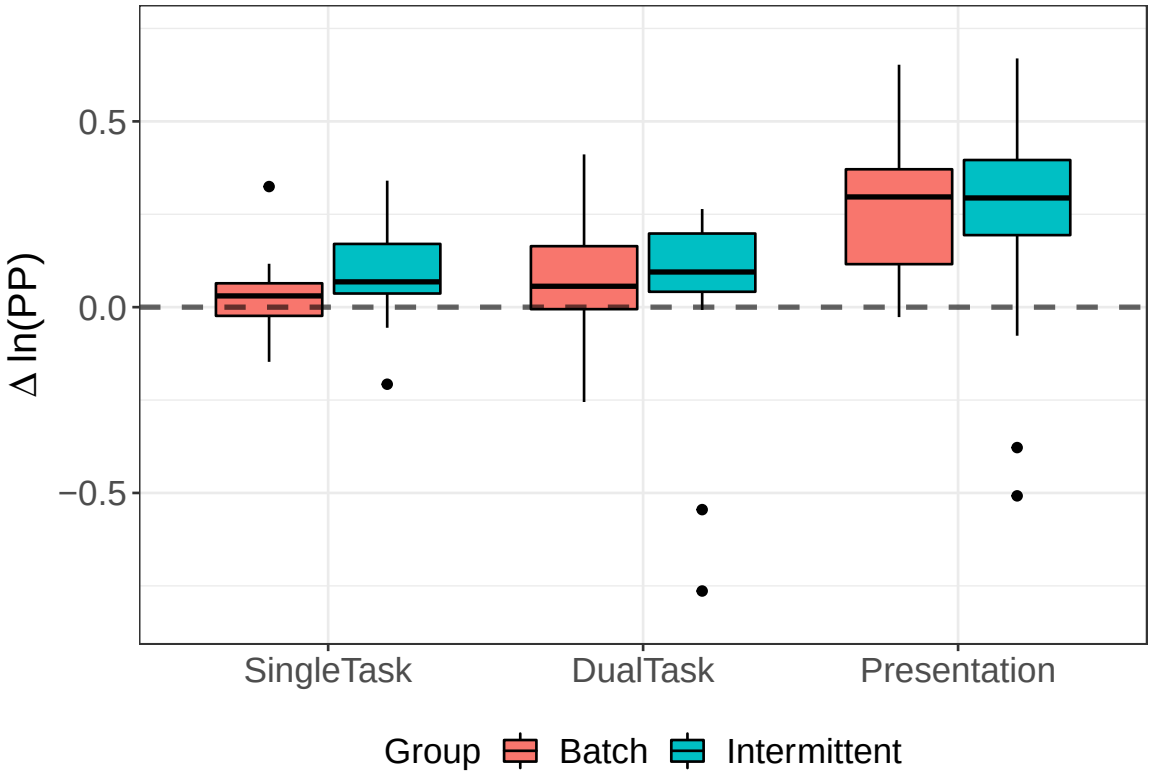
Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##         AIC       BIC   logLik
##   -127.0353 -104.5307 70.51764
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1479979 0.1235555
##
## Fixed effects: PP ~ 1 + Group + Activity
##                         Value  Std.Error  DF   t-value p-value
## (Intercept)        0.03857693 0.03907195 138  0.987330  0.3252
## GroupIntermittent  0.03764870 0.04701821  46  0.800726  0.4274
## ActivityB         -0.04418403 0.02522066 138 -1.751898  0.0820
## ActivityDT         0.00053512 0.02522066 138  0.021217  0.9831
## ActivityP          0.19452518 0.02574922 138  7.554606  0.0000
##  Correlation:
##                   (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.702
## ActivityB         -0.323  0.000
## ActivityDT        -0.323  0.000  0.500
## ActivityP         -0.317  0.002  0.490  0.490
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.38496348 -0.44645414 -0.07652946  0.42610074  2.40051984
##
## Number of Observations: 189
## Number of Groups: 48
```


0.4
0.0
−0.4
−0.8
Δ ln(PP)
Batch
Intermittent
Measure
ST
DT
P


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

### Stress Levels for Dual Task

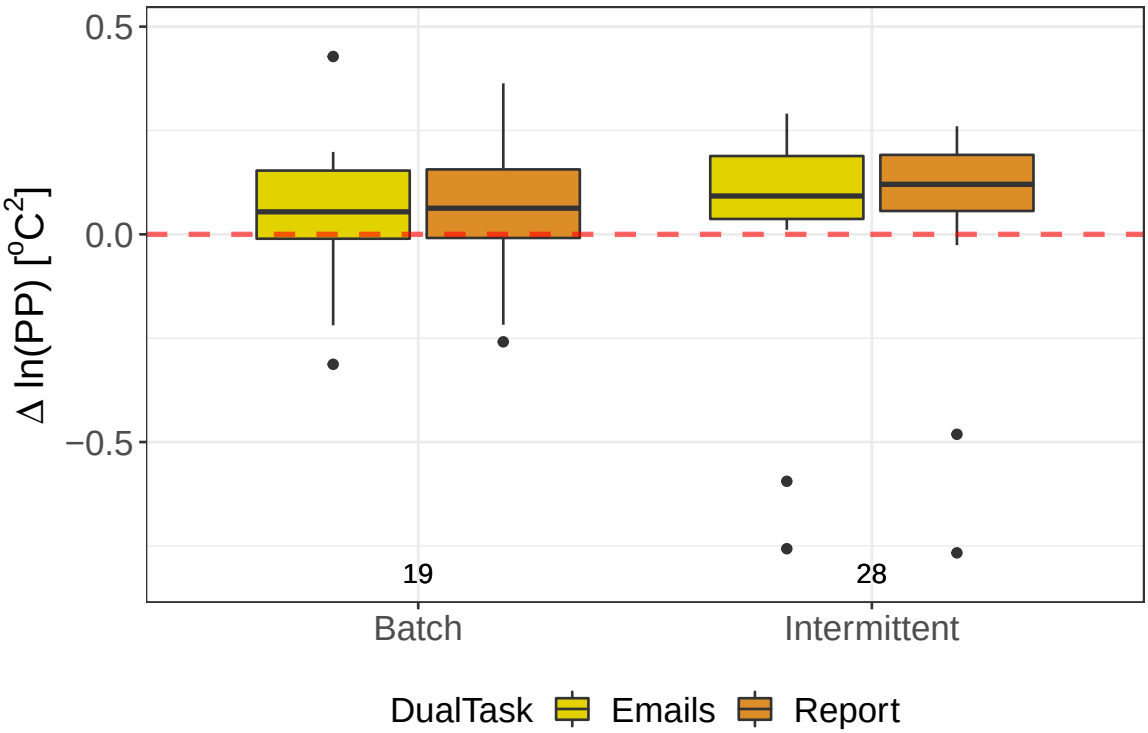
---

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
##   -172.1195 -159.5652 91.05975
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:     0.20011 0.02539385
##
## Fixed effects: PP ~ 1 + Group + DualTask
##                        Value  Std.Error DF  t-value p-value
## (Intercept)       0.0462325 0.04616720 46 1.001415  0.3219
## GroupIntermittent 0.0200485 0.05971774 45 0.335721  0.7386
## DualTaskReport    0.0085975 0.00523835 46 1.641261  0.1076
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.771
## DualTaskReport    -0.057  0.000
##
## Standardized Within-Group Residuals:
##        Min         Q1        Med         Q3        Max
## -2.2508108 -0.3606567  0.0118096  0.3914856  1.8680528
##
## Number of Observations: 94
## Number of Groups: 47
```




```
## Paired t-test
## For Batch, p = 0.3218 > 0.05

## Paired t-test
## For Intermittent, p = 0.217 > 0.05
```

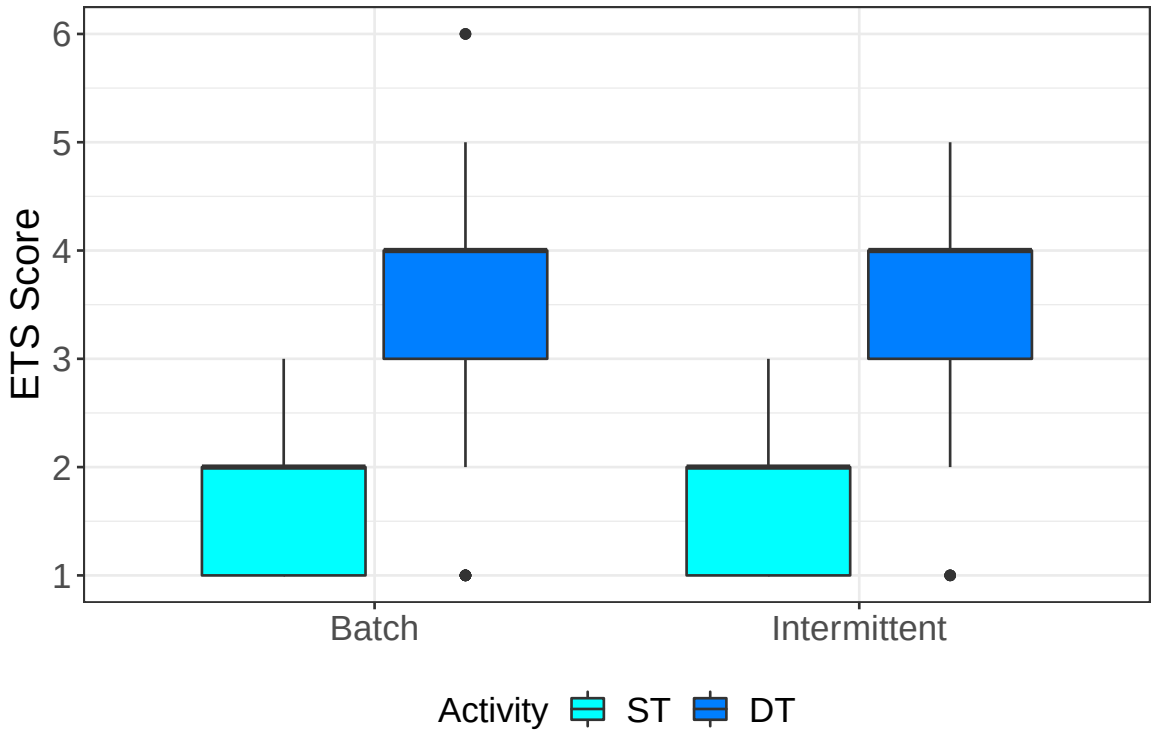
## Linear Modelling for Writing Quality

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC   logLik
##   810.9861 830.9057 -400.493
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.7483934 0.5500858
##
## Fixed effects: Score ~ 1 + Group + Activity
##                       Value  Std.Error  DF  t-value p-value
## (Intercept)       1.9020154 0.15445970 347 12.31399  0.0000
## GroupIntermittent 0.0217373 0.21559651  50  0.10082  0.9201
## ActivityDT        1.8450000 0.05500858 347 33.54022  0.0000
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.694
## ActivityDT        -0.178  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.70937774 -0.70562726  0.00443306  0.72824283  2.46254300
##
## Number of Observations: 400
## Number of Groups: 52
```




| Activity | Group | n |
|---|---|---|
| ST | Batch | 105 |
| ST | Intermittent | 95 |
| DT | Batch | 105 |
| DT | Intermittent | 95 |

## HR, 2 Groups:

### Stress Levels Across Activities

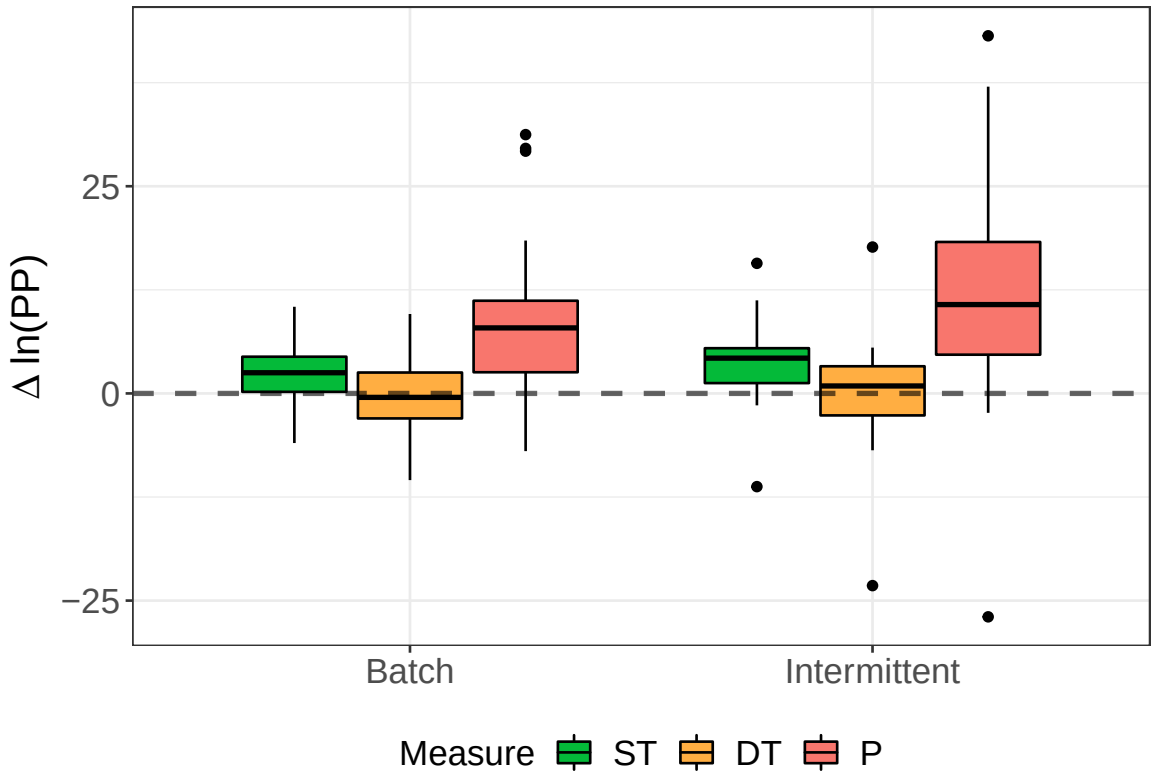
---

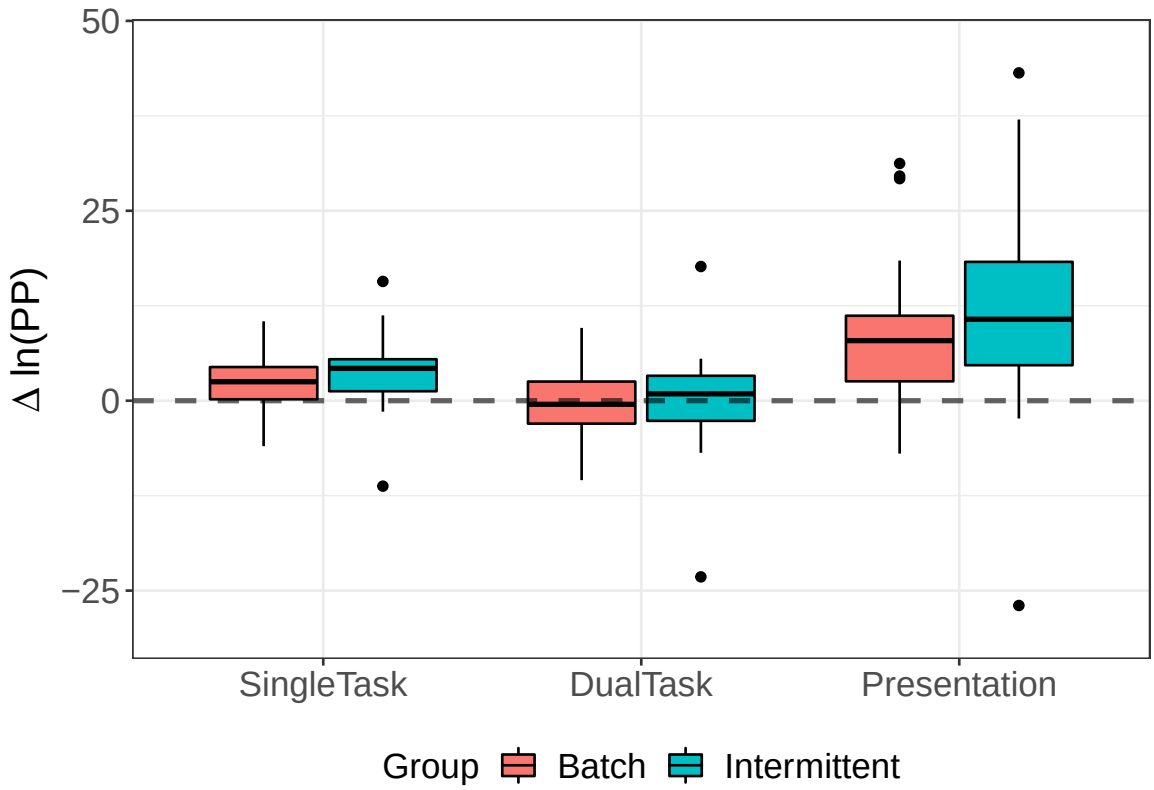
Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: diff_df
##        AIC      BIC    logLik
##   1263.631 1286.135 -624.8154
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:    5.265315 5.688525
##
## Fixed effects: HR ~ 1 + Group + Activity
##                       Value Std.Error  DF   t-value p-value
## (Intercept)        2.917119  1.412513 137  2.065198  0.0408
## GroupIntermittent  0.385465  1.718789  47  0.224265  0.8235
## ActivityB         -2.462404  1.149255 137 -2.142608  0.0339
## ActivityDT        -3.730290  1.149255 137 -3.245831  0.0015
## ActivityP          7.236803  1.207183 137  5.994786  0.0000
##  Correlation:
##                   (Intr) GrpInt ActvtB ActvDT
## GroupIntermittent -0.621
## ActivityB         -0.407  0.000
## ActivityDT        -0.407  0.000  0.500
## ActivityP         -0.390  0.004  0.476  0.476
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.51427366 -0.38364517 -0.02197133  0.34038343  4.48138157
##
## Number of Observations: 189
## Number of Groups: 49
```


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

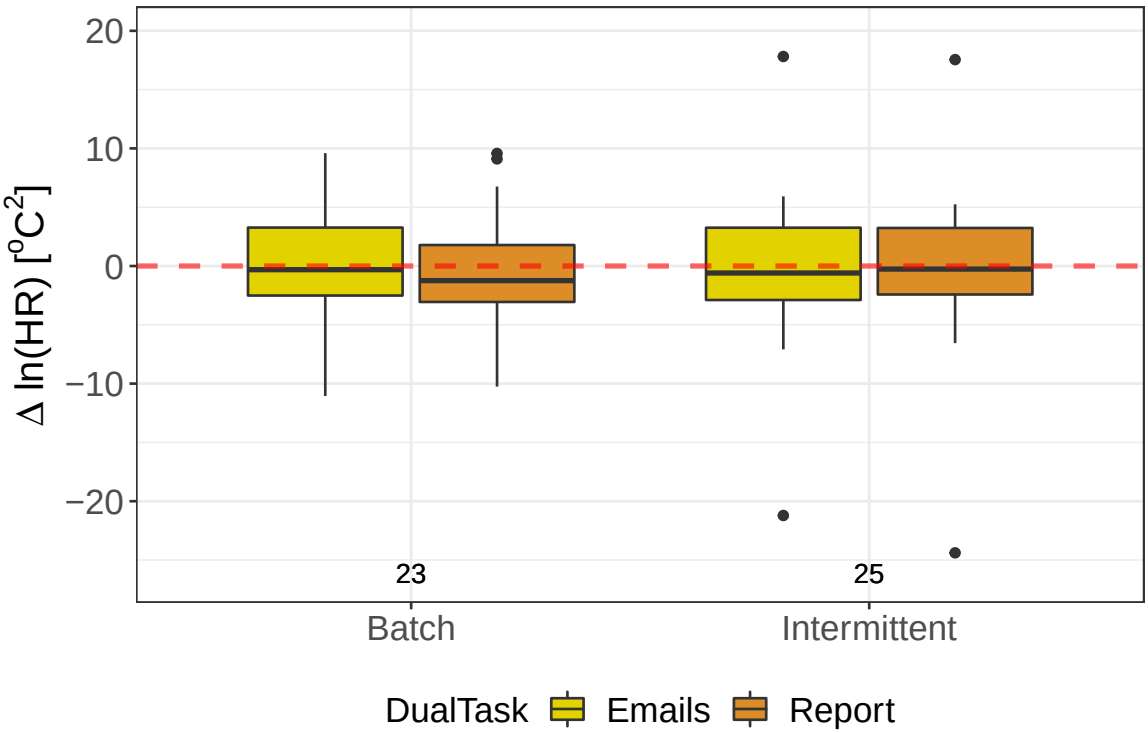
---

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: total_df
##        AIC      BIC    logLik
##   492.5249 505.1879 -241.2625
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept) Residual
## StdDev:    6.016257 1.111417
##
## Fixed effects: HR ~ 1 + Group + DualTask
##                        Value Std.Error DF    t-value p-value
## (Intercept)       -0.6280509 1.2702091 47 -0.4944468  0.6233
## GroupIntermittent  0.3254378 1.7530211 46  0.1856440  0.8535
## DualTaskReport    -0.1808579 0.2268671 47 -0.7971979  0.4293
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.719
## DualTaskReport    -0.089  0.000
##
## Standardized Within-Group Residuals:
##          Min           Q1          Med           Q3          Max
## -2.103401267 -0.397769399  0.007921389  0.384854891  2.328488769
##
## Number of Observations: 96
## Number of Groups: 48
```




```
## Paired t-test
## For Batch, p = 0.8989 > 0.05

## Paired t-test
## For Intermittent, p = 0.2465 > 0.05
```

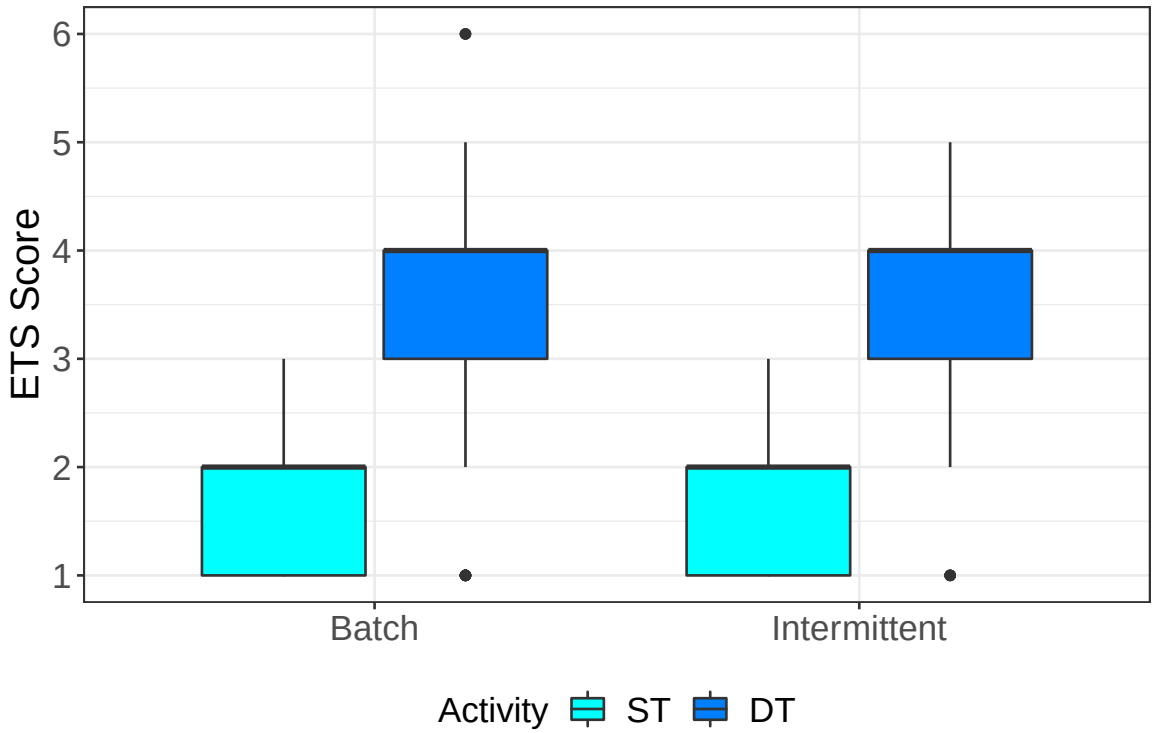
## Linear Modelling for Writing Quality

Our Linear Model:

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

---

```
## Linear mixed-effects model fit by REML
##  Data: full_df
##        AIC      BIC   logLik
##   810.9861 830.9057 -400.493
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.7483934 0.5500858
##
## Fixed effects: Score ~ 1 + Group + Activity
##                       Value  Std.Error  DF  t-value p-value
## (Intercept)       1.9020154 0.15445970 347 12.31399  0.0000
## GroupIntermittent 0.0217373 0.21559651  50  0.10082  0.9201
## ActivityDT        1.8450000 0.05500858 347 33.54022  0.0000
##  Correlation:
##                   (Intr) GrpInt
## GroupIntermittent -0.694
## ActivityDT        -0.178  0.000
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -2.70937774 -0.70562726  0.00443306  0.72824283  2.46254300
##
## Number of Observations: 400
## Number of Groups: 52
```




| Activity | Group | n |
|---|---|---|
| ST | Batch | 105 |
| ST | Intermittent | 95 |
| DT | Batch | 105 |
| DT | Intermittent | 95 |

## 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
##   -43.31829 -24.26207 29.65914
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)  Residual
## StdDev:   0.1306732 0.1054537
##
## Fixed effects: PP ~ 1 + ETSScore + Group + Activity
##                   Value  Std.Error DF    t-value p-value
## (Intercept)  0.01360670 0.05749257 41  0.2366689  0.8141
## ETSScore    -0.00963787 0.01744712 41 -0.5524046  0.5837
## GroupIN      0.07927376 0.06357729 39  1.2468881  0.2199
## GroupBF      0.02644267 0.07423145 39  0.3562192  0.7236
## GroupIF      0.08555631 0.06328765 39  1.3518641  0.1842
## ActivityDT   0.01320544 0.03930256 41  0.3359944  0.7386
##  Correlation:
##             (Intr) ETSScr GropIN GropBF GropIF
## ETSScore    -0.525
## GroupIN     -0.569 -0.096
## GroupBF     -0.505 -0.049  0.484
## GroupIF     -0.616 -0.012  0.564  0.482
## ActivityDT  0.314 -0.816  0.078  0.040  0.010
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -3.94012040 -0.20514020  0.02007854  0.25084072  1.58902901
##
## Number of Observations: 86
## Number of Groups: 43
```

## 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 0.0537 0.05365   1.325  0.256
## IntermittentFactor  1 0.0050 0.00503   0.124  0.726
## Residuals          45 1.8227 0.04050
```

```
##   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 0.06692245 -0.05019477 0.1840397 0.2558574
##
## $IntermittentFactor
##                                       diff         lwr      upr     p adj
## Intermittent-Non-Intermittent 0.02074362 -0.09793177 0.139419 0.7264433
```

### 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
##   2.229069 11.26238 3.885466
##
## Random effects:
##  Formula: ~1 | Subject
##         (Intercept)   Residual
## StdDev:   0.1884434 0.07066626
##
## Fixed effects: PP ~ 1 + StressFactor + IntermittentFactor
##                                     Value  Std.Error DF   t-value p-value
## (Intercept)                    0.01447910 0.05358728 45 0.2701965  0.7882
## StressFactorHigh               0.06620004 0.05818471 45 1.1377565  0.2612
## IntermittentFactorIntermittent 0.02076942 0.05895882 45 0.3522700  0.7263
##  Correlation:
##                                (Intr) StrsFH
## StressFactorHigh               -0.543
## IntermittentFactorIntermittent -0.622 -0.035
##
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -1.39425172 -0.11483069  0.06050482  0.21631435  0.57647112
##
## Number of Observations: 48
## Number of Groups: 48
```

## 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 0.0537 0.05365   1.297  0.261
## IntermittentFactor               1 0.0050 0.00503   0.122  0.729
## StressFactor:IntermittentFactor  1 0.0025 0.00246   0.060  0.808
## Residuals                       44 1.8202 0.04137
```

```
##   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 0.06692245 -0.0515124 0.1853573 0.2609499
##
## $IntermittentFactor
##                                     diff         lwr       upr     p adj
## Intermittent-Non-Intermittent 0.02074362 -0.09926692 0.1407542 0.7292364
##
## $`StressFactor:IntermittentFactor`
##                                                       diff        lwr
## High:Non-Intermittent-Low:Non-Intermittent  0.049265182 -0.1936003
## Low:Intermittent-Low:Non-Intermittent       0.005788591 -0.2226361
## High:Intermittent-Low:Non-Intermittent      0.084146984 -0.1375578
## Low:Intermittent-High:Non-Intermittent     -0.043476591 -0.2719012
## High:Intermittent-High:Non-Intermittent     0.034881802 -0.1868230
## High:Intermittent-Low:Intermittent          0.078358393 -0.1274260
##                                                    upr     p adj
## High:Non-Intermittent-Low:Non-Intermittent 0.2921306 0.9483086
## Low:Intermittent-Low:Non-Intermittent      0.2342132 0.9998871
## High:Intermittent-Low:Non-Intermittent     0.3058518 0.7425043
## Low:Intermittent-High:Non-Intermittent     0.1849481 0.9567128
## High:Intermittent-High:Non-Intermittent    0.2565866 0.9747539
## High:Intermittent-Low:Intermittent         0.2841428 0.7406074
```