Comparing the groups

Contents

Compare the *Curiosity* groups

```
##    CurGrpMd      Mean         SD
## 1:     High 0.2510022 0.1523117
## 2:      Low 0.2598545 0.1557280
```

Statistic difference

```
##
##  Paired t-test
##
## data:  SAcc by CurGrpMd
## t = -0.38627, df = 25, p-value = 0.7026
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.05605085  0.03834634
## sample estimates:
## mean of the differences
##             -0.008852259
```

Include the item order

```
##    CurGrpMd ObjOrdGrp      Mean         SD
## 1:     High     Early 0.2526353 0.1734485
## 2:     High     Later 0.2493691 0.1784150
## 3:      Low     Early 0.2697751 0.1596873
## 4:      Low     Later 0.2499339 0.1782904
```

Statistic difference

```
## $ANOVA
```

```
##               Effect DFn DFd         F         p p<.05        ges
## 2           CurGrpMd   1  25 0.1492072 0.7025621       0.0006832108
## 3           ObjOrdGrp   1  25 0.3283328 0.5717608       0.0011632734
## 4 CurGrpMd:ObjOrdGrp   1  25 0.1300348 0.7214250       0.0005988734
```

Compare the *Interest* groups

```
##    IntGrpMd      Mean        SD
## 1:     High 0.2665090 0.1528836
## 2:      Low 0.2429055 0.1588604
```

Statistic difference

```
##
##  Paired t-test
##
## data:  SAcc by IntGrpMd
## t = 1.1732, df = 25, p-value = 0.2518
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.01783330  0.06504026
## sample estimates:
## mean of the differences
##              0.02360348
```

Include the item order

```
##    IntGrpMd ObjOrdGrp      Mean        SD
## 1:     High     Early 0.2517043 0.1858271
## 2:     High     Later 0.2813136 0.1595931
## 3:      Low     Early 0.2474308 0.1545631
## 4:      Low     Later 0.2383801 0.1898317
```

Statistic difference

```
## $ANOVA
##               Effect DFn DFd         F         p p<.05        ges
## 2           IntGrpMd   1  25 1.3763215 0.2517856       0.0048081003
## 3           ObjOrdGrp   1  25 0.2428947 0.6264242       0.0009154703
## 4 IntGrpMd:ObjOrdGrp   1  25 0.8524136 0.3646961       0.0032297751
```

Compare the *Surprise* groups

```
##    SurGrpMd      Mean        SD
## 1:     High 0.3020019 0.1723657
## 2:      Low 0.2178292 0.1529677
```

Statistic difference

```
##
##  Paired t-test
##
## data:  SAcc by SurGrpMd
## t = 3.1552, df = 25, p-value = 0.004146
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
```

```
##   0.02923024 0.13911530
## sample estimates:
## mean of the differences
##                0.08417277
```

Include the item order

```
##    SurGrpMd ObjOrdGrp      Mean        SD
## 1:     High     Early 0.2966524 0.1892961
## 2:     High     Later 0.3073514 0.1756607
## 3:      Low     Early 0.2222629 0.1617775
## 4:      Low     Later 0.2133954 0.1868869
```

Statistic difference

```
## $ANOVA
##                   Effect DFn DFd           F           p p<.05          ges
## 2              SurGrpMd   1  25 9.955563003 0.004145808     * 5.451784e-02
## 3             ObjOrdGrp   1  25 0.001765054 0.966822441       6.824860e-06
## 4 SurGrpMd:ObjOrdGrp     1  25 0.269984232 0.607912712       7.783450e-04
```

Compare the *Pre-Interest* groups

```
##    PreIntGrpMd      Mean        SD
## 1:        High 0.2458435 0.1396809
## 2:         Low 0.2541311 0.1688553
```

Statistic difference

```
##
##  Paired t-test
##
## data:  SAcc by PreIntGrpMd
## t = -0.41178, df = 25, p-value = 0.684
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.04973845  0.03316336
## sample estimates:
## mean of the differences
##            -0.008287546
```

Include the item order

```
##    PreIntGrpMd ObjOrdGrp      Mean        SD
## 1:        High     Early 0.2357550 0.1571281
## 2:        High     Later 0.2559320 0.1641849
## 3:         Low     Early 0.2473850 0.1876699
## 4:         Low     Later 0.2608771 0.1648013
```

Statistic difference

```
## $ANOVA
##                     Effect DFn DFd          F         p p<.05          ges
## 2             PreIntGrpMd   1  25 0.16956009 0.6840123       0.0006260537
## 3               ObjOrdGrp   1  25 0.75283941 0.3938313       0.0025781835
## 4 PreIntGrpMd:ObjOrdGrp   1  25 0.03545828 0.8521588       0.0001018891
```

Compare the *Pre-Surprise* groups

```
##    PreSurGrpMd      Mean       SD
## 1:        High 0.2837249 0.1541879
## 2:         Low 0.2178360 0.1643459
```

Statistic difference

```
##
##  Paired t-test
##
## data:  SAcc by PreSurGrpMd
## t = 2.248, df = 24, p-value = 0.03403
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.005396606 0.126381172
## sample estimates:
## mean of the differences
##              0.06588889
```

Include the item order

```
##    PreSurGrpMd ObjOrdGrp      Mean        SD
## 1:        High     Early 0.2759153 0.1480133
## 2:        High     Later 0.2915344 0.1910806
## 3:         Low     Early 0.2208360 0.1760099
## 4:         Low     Later 0.2148360 0.1692047
```

Statistic difference

```
## $ANOVA
##                 Effect DFn DFd         F          p p<.05           ges
## 2          PreSurGrpMd   1  24 5.0536029 0.03403155     * 0.0369006339
## 3            ObjOrdGrp   1  24 0.0524164 0.82085039       0.0002041051
## 4 PreSurGrpMd:ObjOrdGrp   1  24 0.5379768 0.47037706       0.0010301581
```