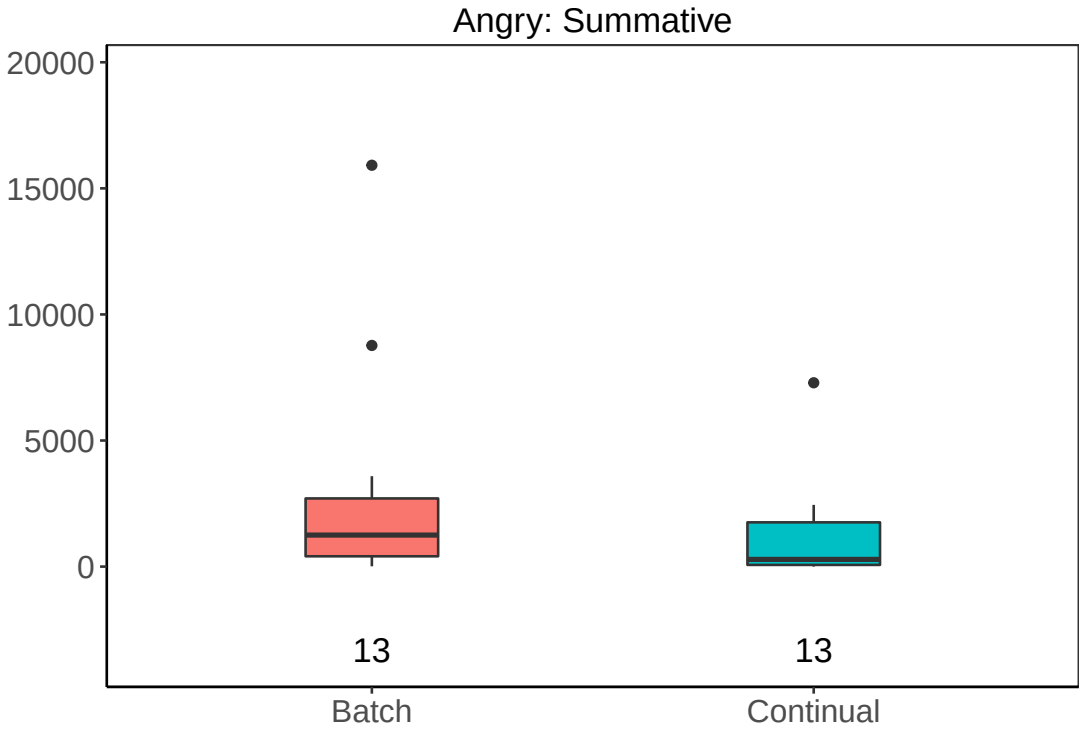
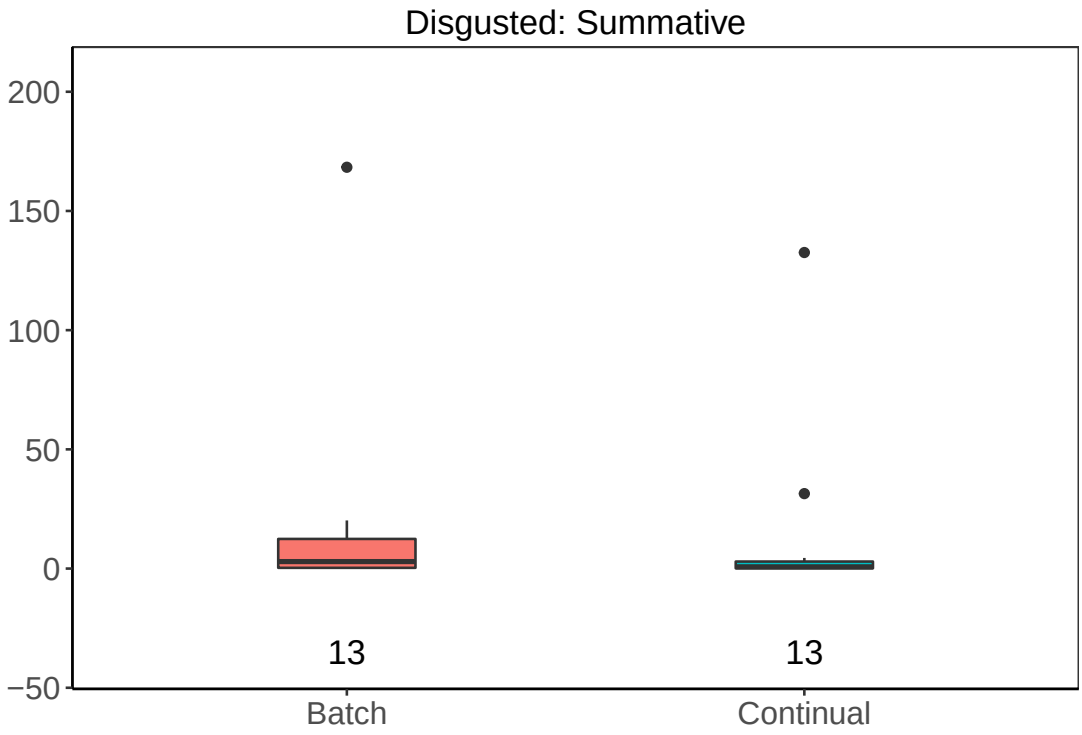
Facs Data - Test

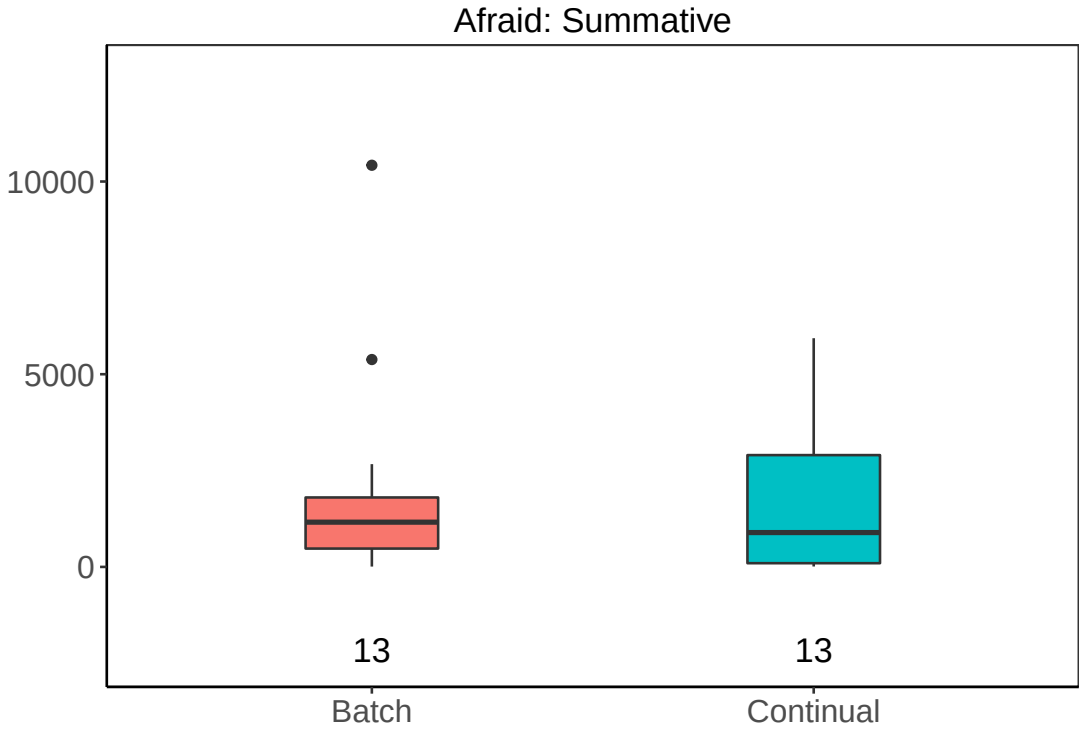
Summative Result - Comparison



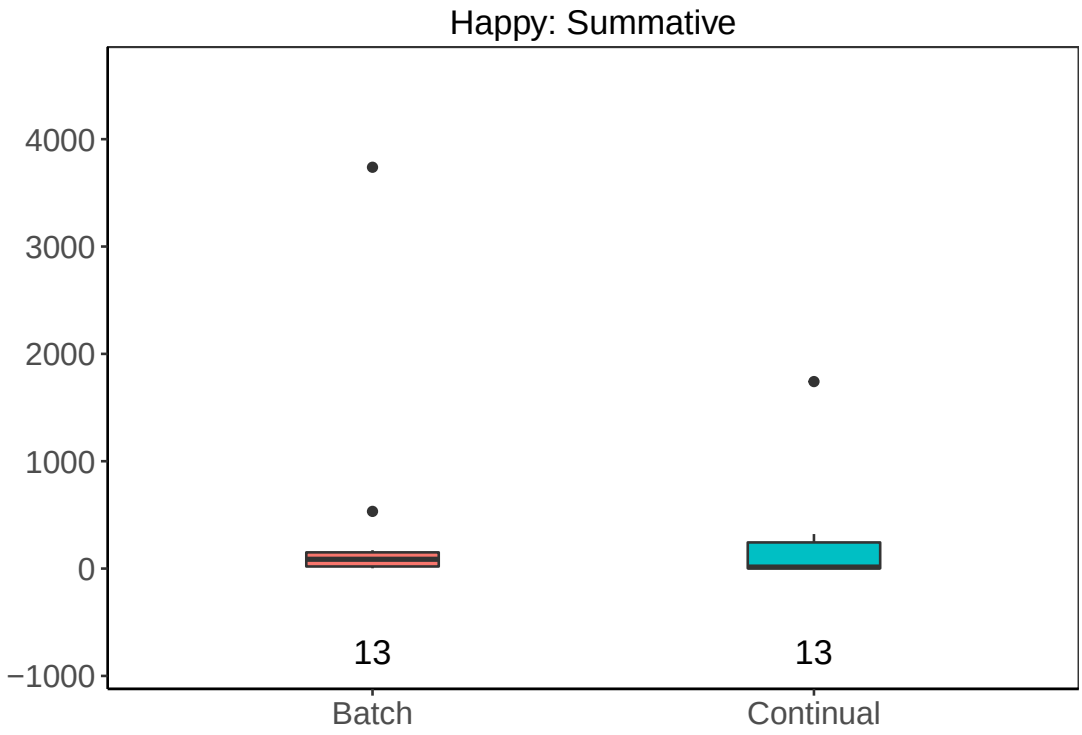

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 1.6299, df = 21.828, p-value = 0.1175
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3979749  3.3136478
## sample estimates:
## mean of x mean of y
##  6.889827  5.431991
```



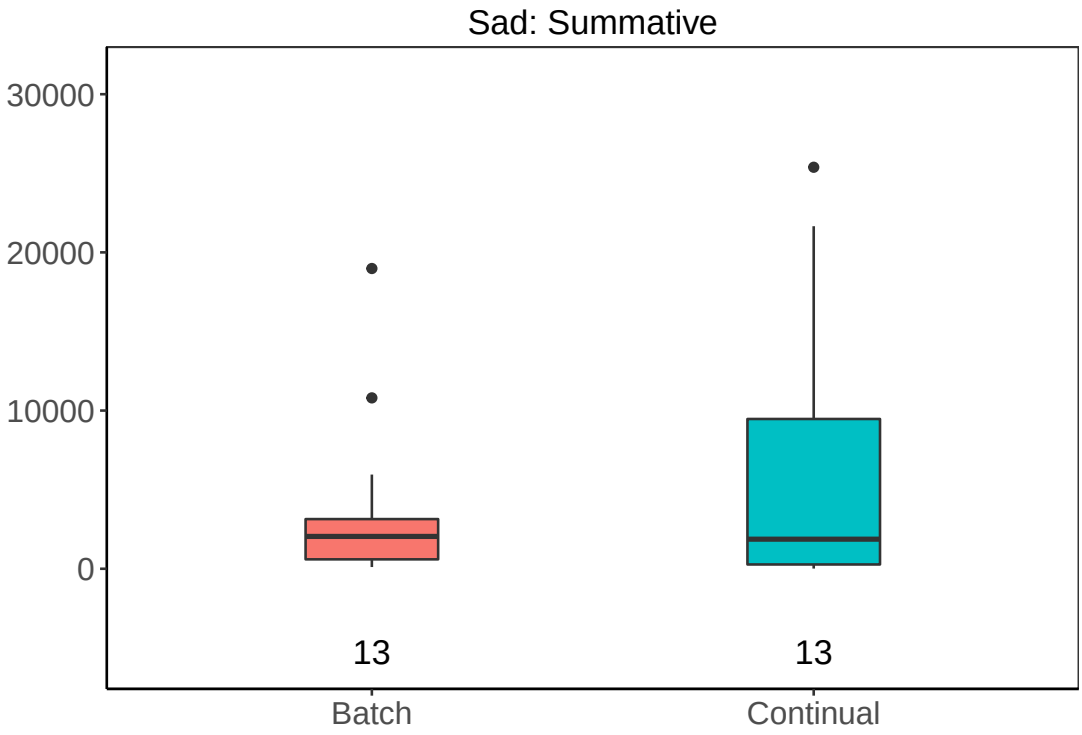

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 1.1529, df = 22.622, p-value = 0.261
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.453797  5.107044
## sample estimates:
##  mean of x  mean of y
##  0.2109121 -1.6157111
```



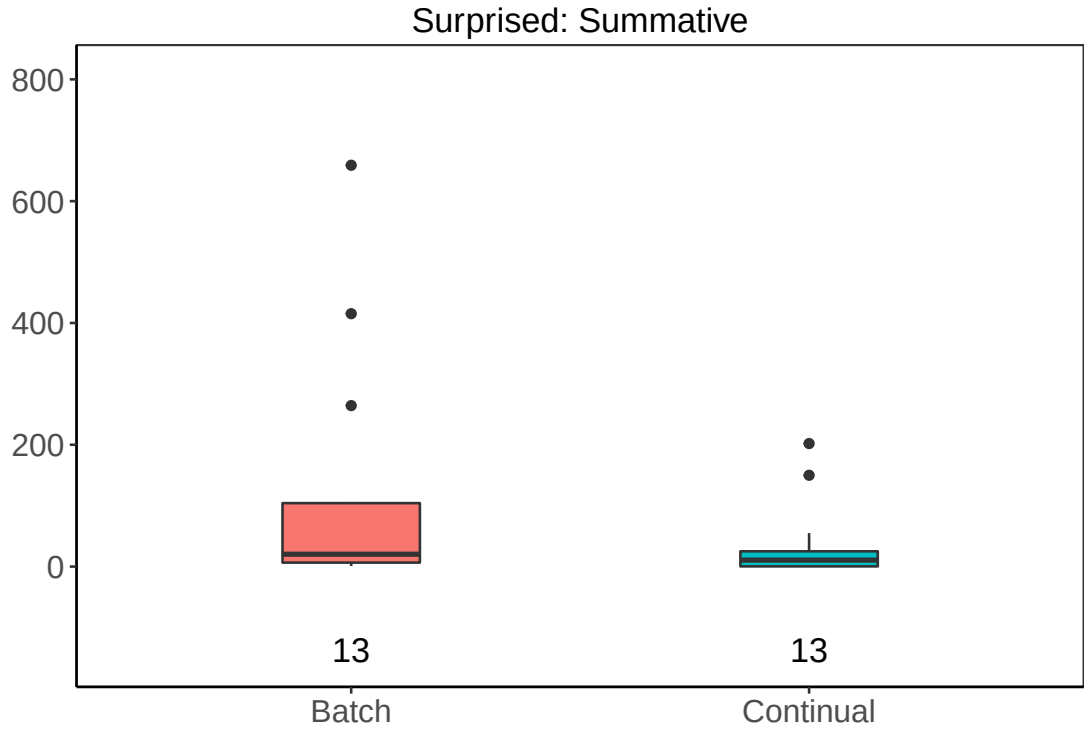

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.66306, df = 22.918, p-value = 0.5139
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.101524  2.140470
## sample estimates:
## mean of x mean of y
##  6.688310  6.168837
```



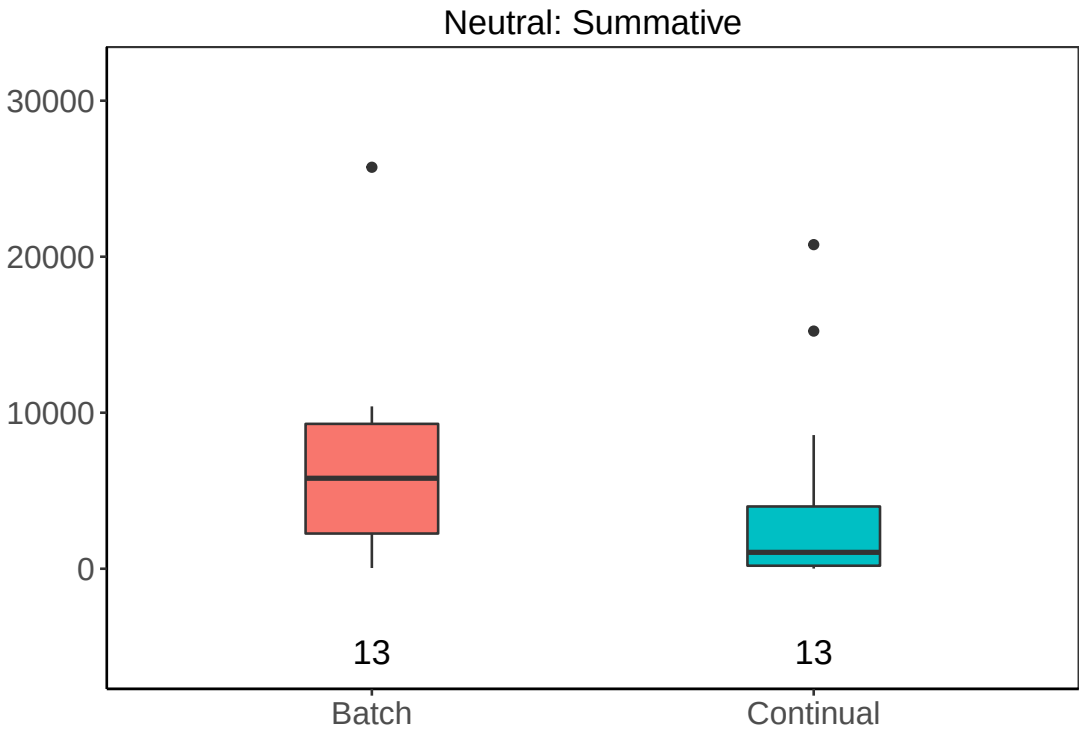

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 1.438, df = 20.2, p-value = 0.1657
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.652234  3.553075
## sample estimates:
## mean of x mean of y
##  4.182992  2.732572
```




```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.48232, df = 19.235, p-value = 0.635
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.338975  2.141734
## sample estimates:
## mean of x mean of y
##  7.421343  7.019963
```

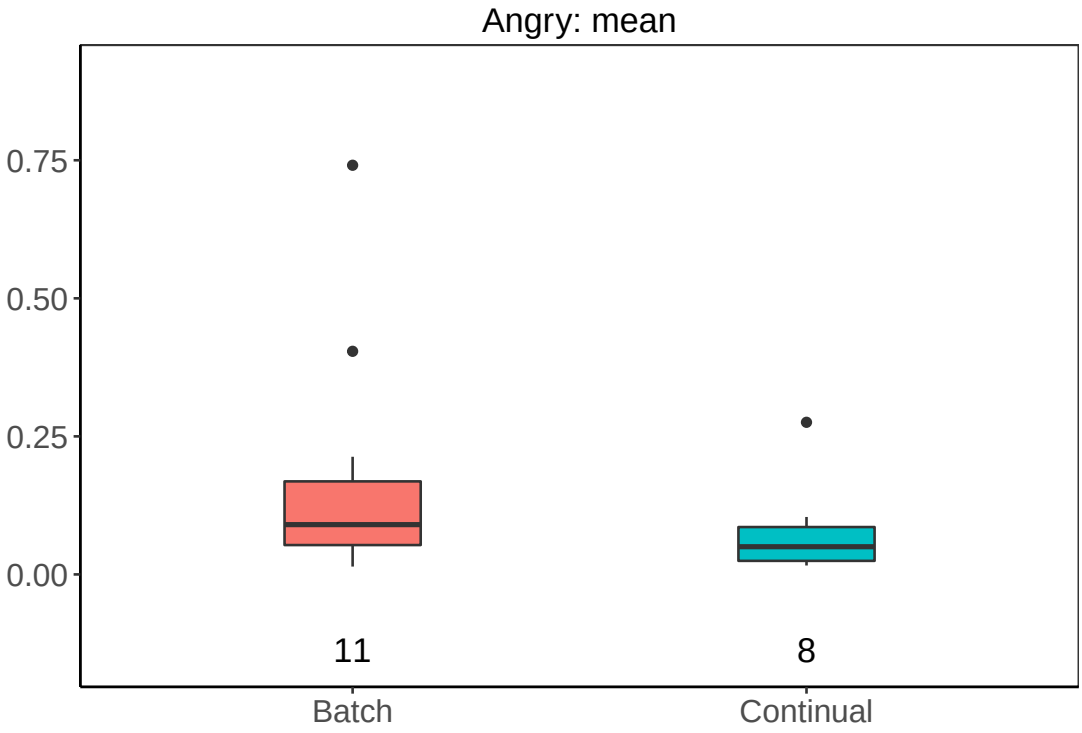



```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 1.6606, df = 20.78, p-value = 0.1118
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.464145  4.130975
## sample estimates:
## mean of x mean of y
##  3.140422  1.307007
```

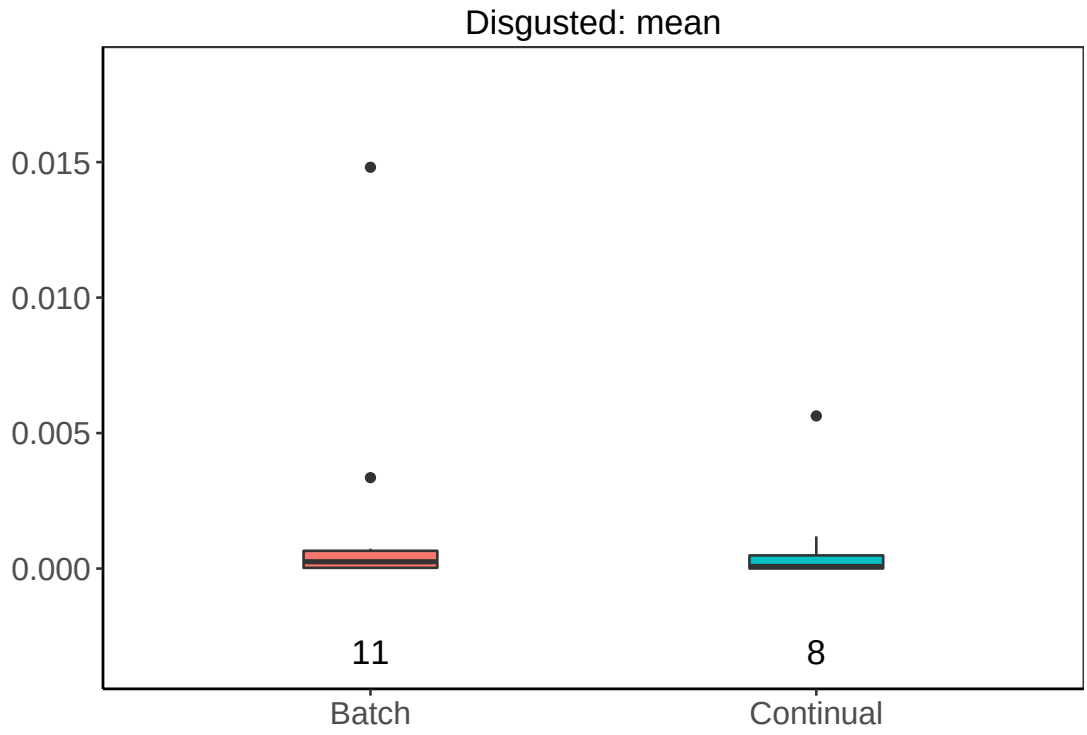



```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  batch_data and continual_data
## W = 118, p-value = 0.09085
## alternative hypothesis: true location shift is not equal to 0
```

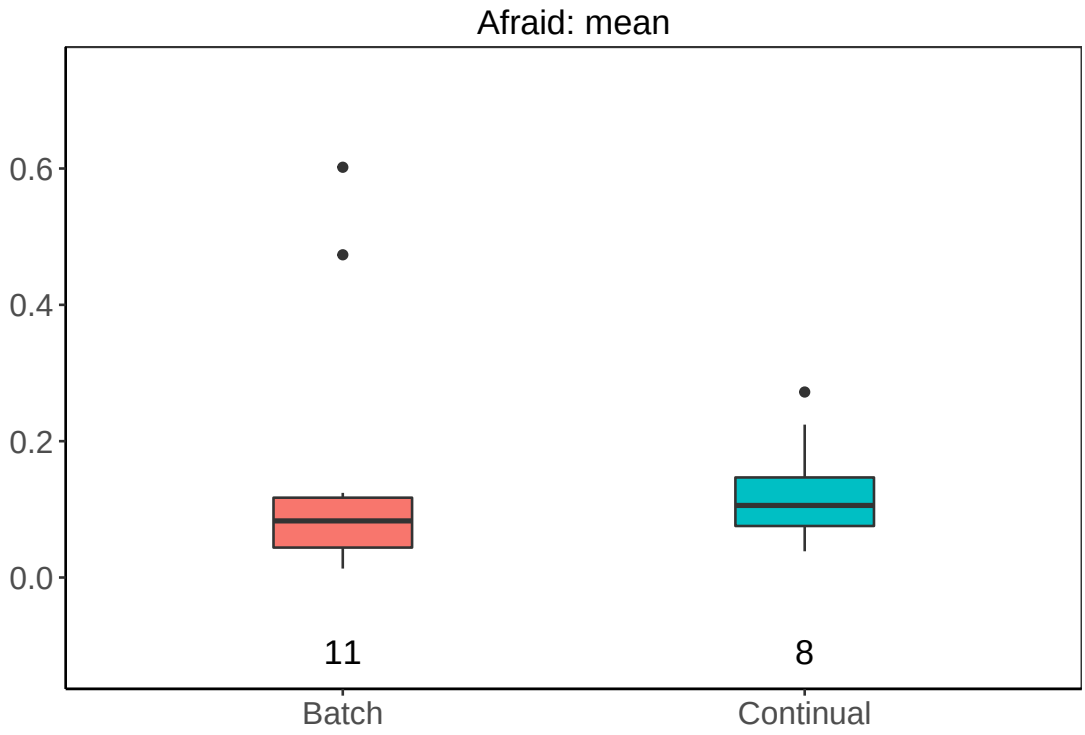
Mean Result - Comparison



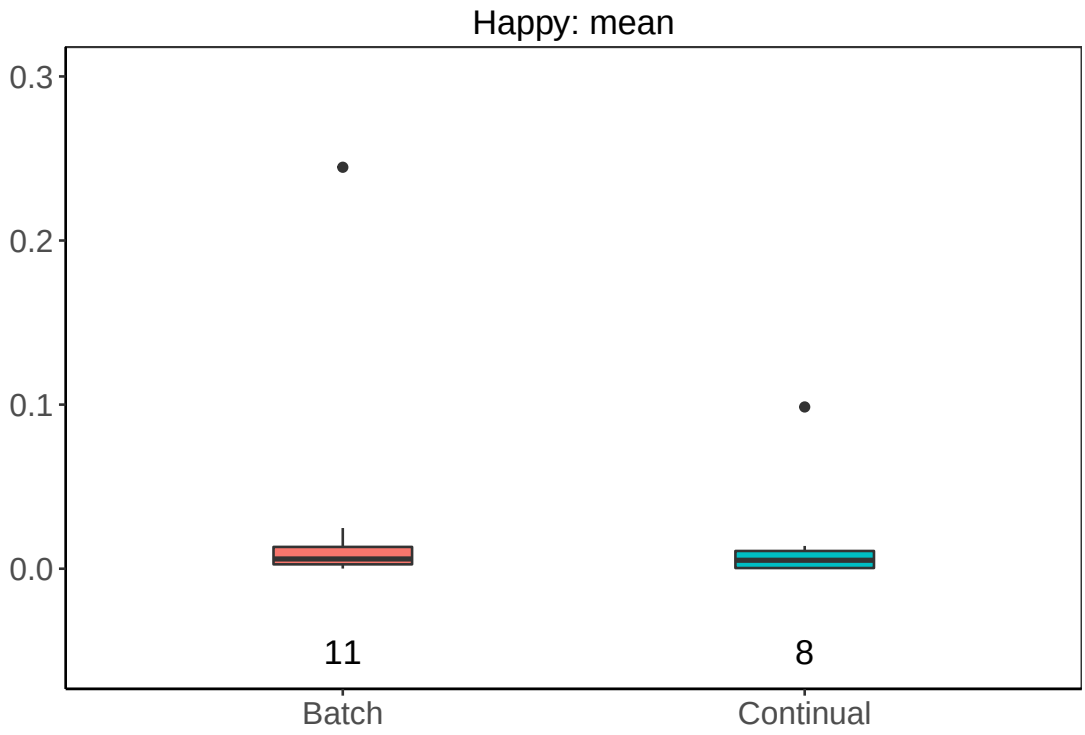

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 1.4543, df = 16.359, p-value = 0.1648
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3094014  1.6691460
## sample estimates:
## mean of x mean of y
## -2.291074 -2.970947
```



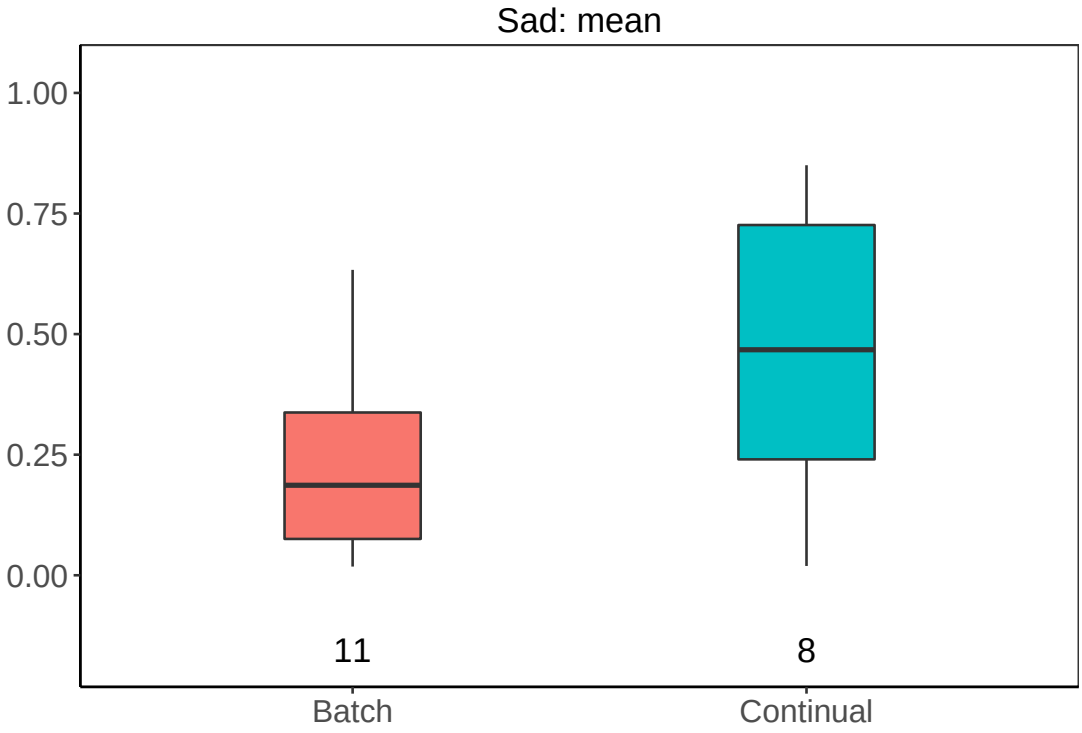

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.97531, df = 13.242, p-value = 0.3469
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.598391  4.238276
## sample estimates:
## mean of x mean of y
## -8.557418 -9.877361
```



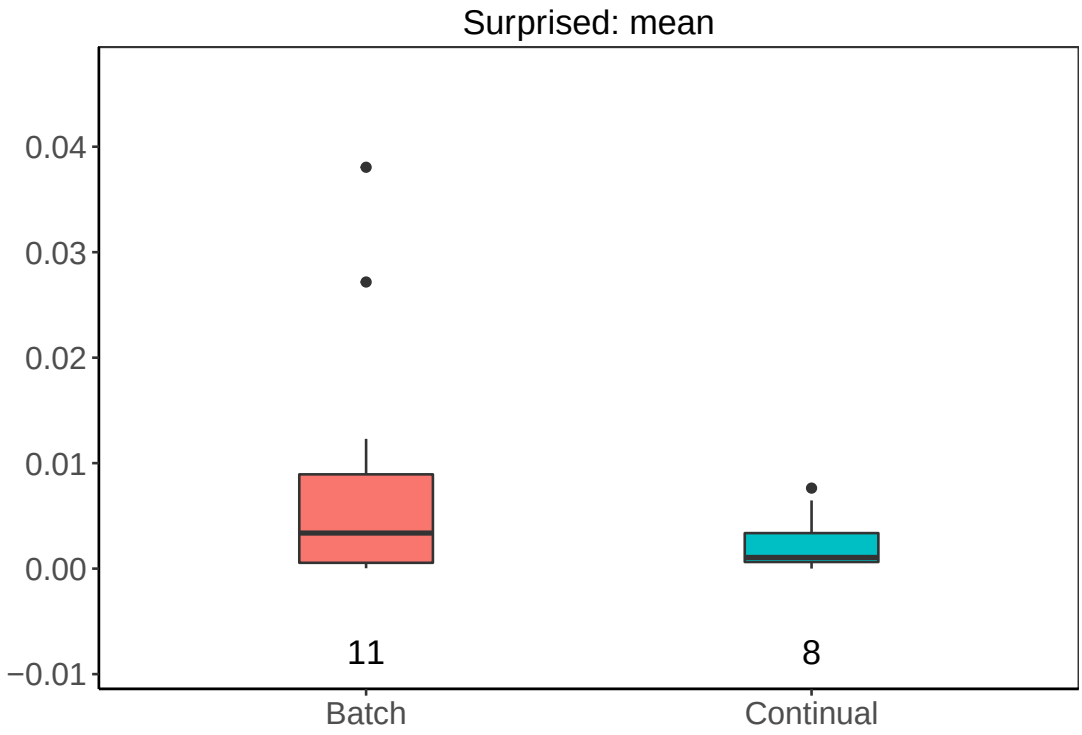

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = -0.61598, df = 16.215, p-value = 0.5465
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.115329  0.612684
## sample estimates:
## mean of x mean of y
## -2.493033 -2.241710
```



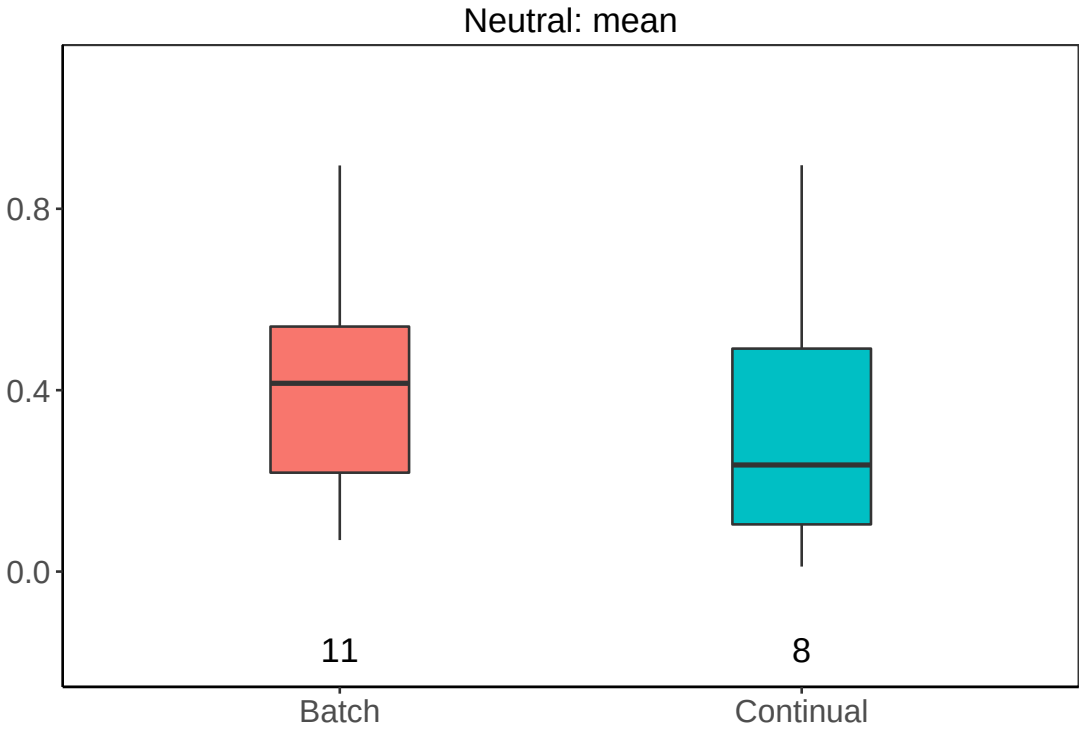

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.74627, df = 13.326, p-value = 0.4685
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.450809  2.987925
## sample estimates:
## mean of x mean of y
## -5.186345 -5.954902
```




```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = -1.8461, df = 11.053, p-value = 0.09181
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.49863115  0.04357921
## sample estimates:
## mean of x mean of y
## 0.2304129 0.4579388
```

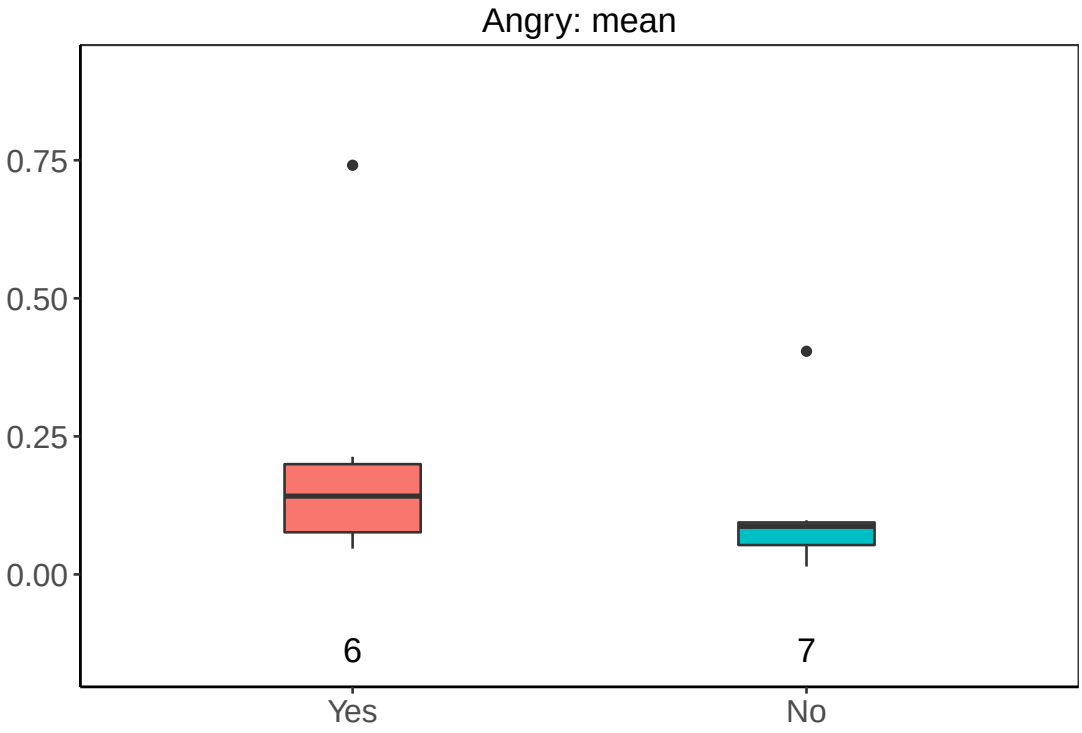



```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.82373, df = 15.261, p-value = 0.4228
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.352413  3.060312
## sample estimates:
## mean of x mean of y
## -6.252378 -7.106327
```

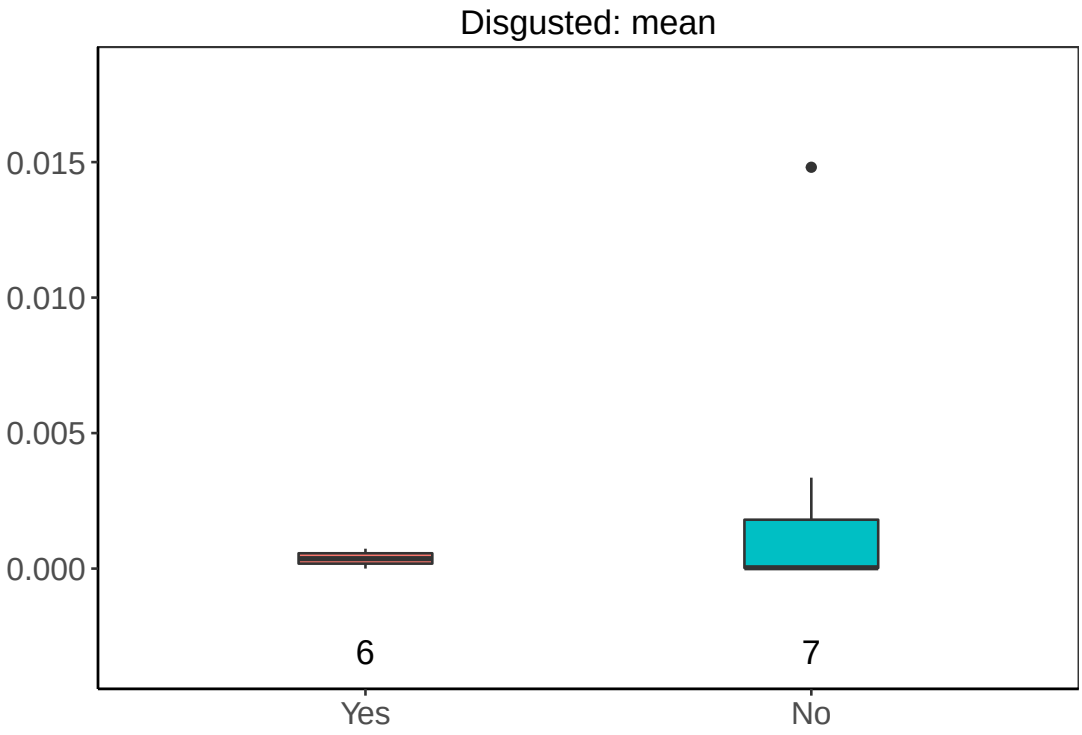



```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  batch_data and continual_data
## t = 0.6644, df = 12.759, p-value = 0.5183
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.1923863  0.3628012
## sample estimates:
## mean of x mean of y
## 0.4030569 0.3178494
```

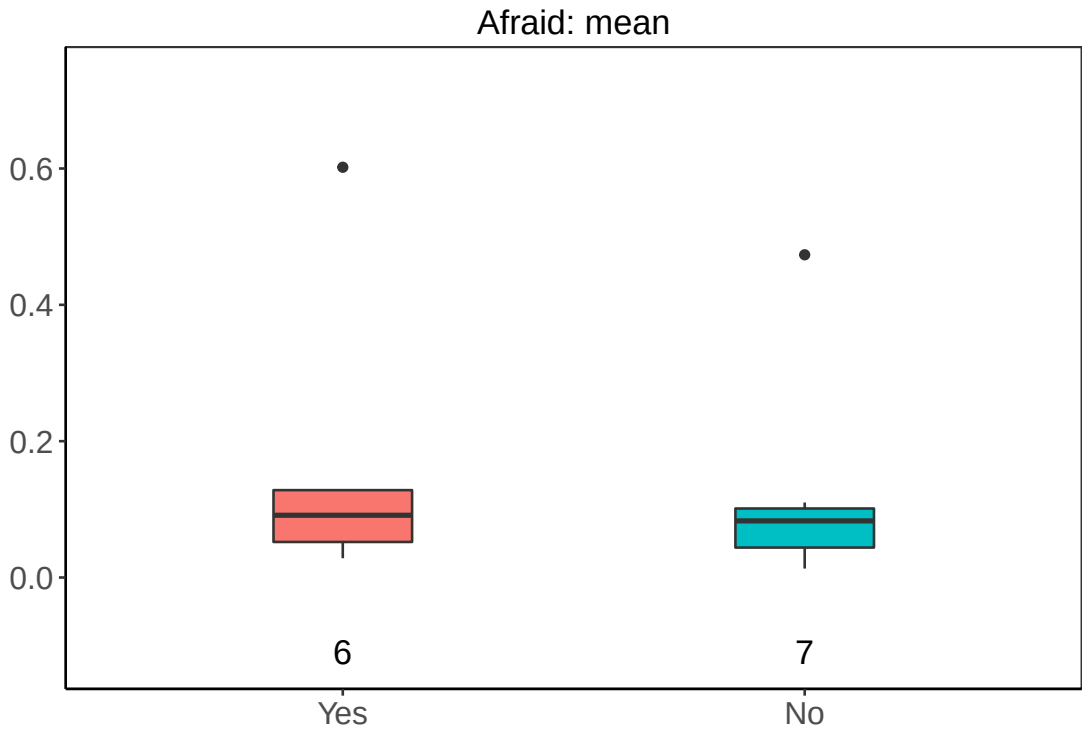
Glass Result - Comparison



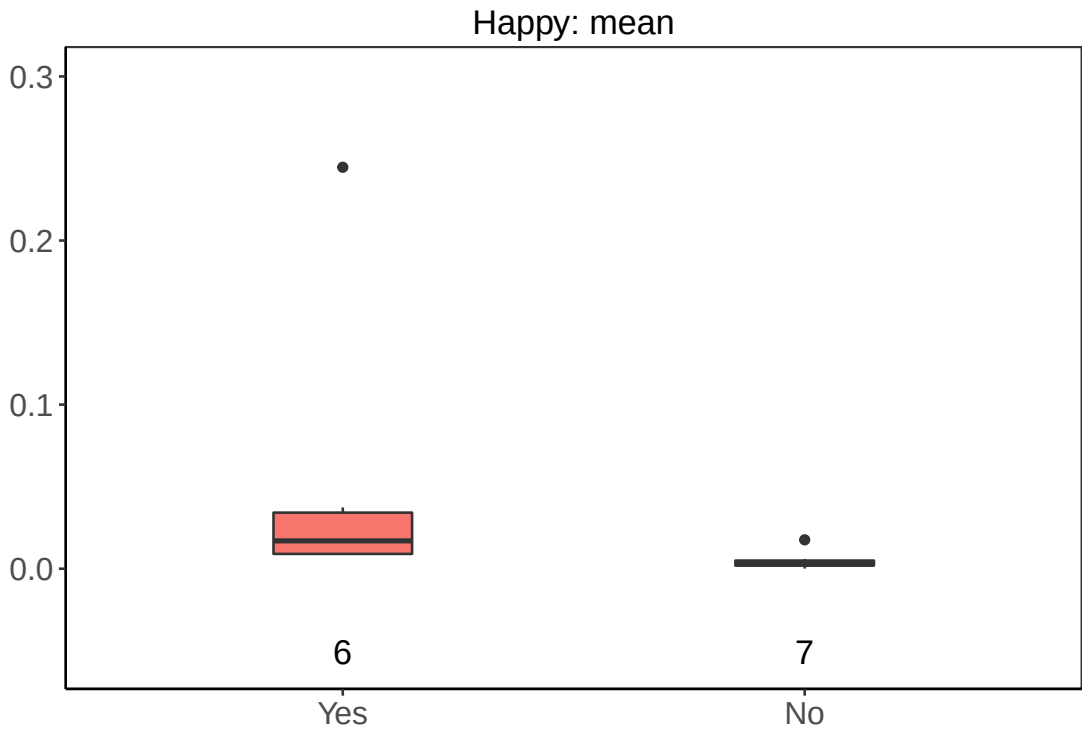

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 1.1944, df = 10.724, p-value = 0.2581
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.5600589  1.8801513
## sample estimates:
## mean of x mean of y
## -1.940247 -2.600293
```



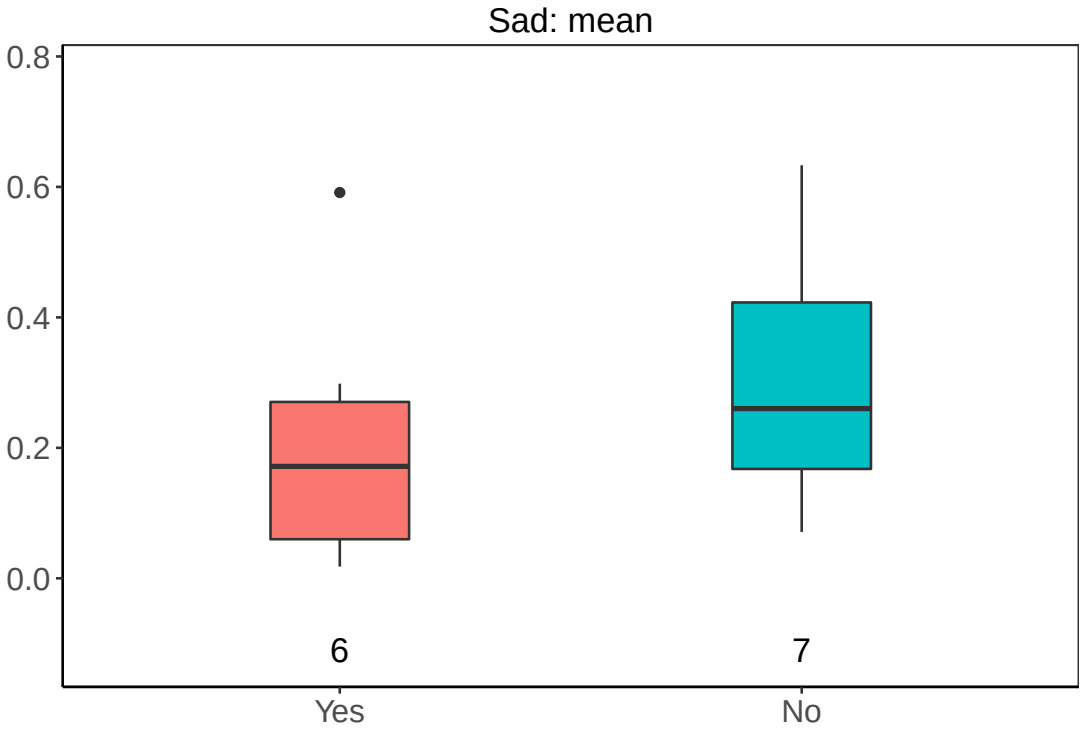

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 23, p-value = 0.8357
## alternative hypothesis: true location shift is not equal to 0
```



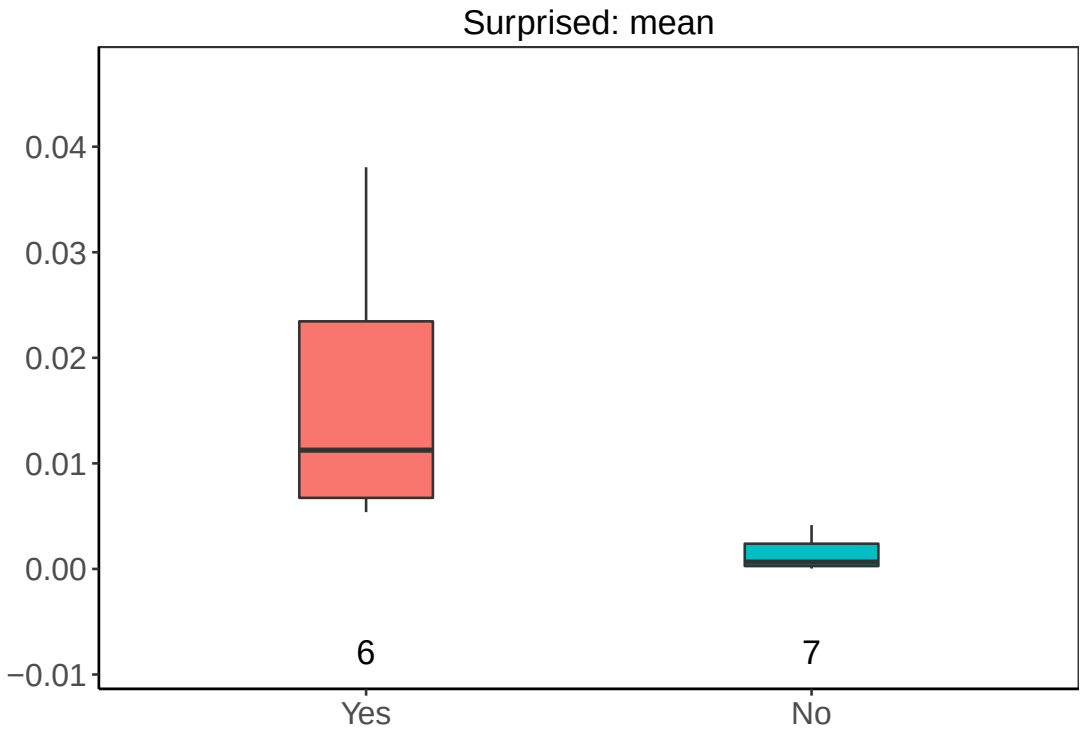

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.48568, df = 10.791, p-value = 0.6369
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.035351  1.619886
## sample estimates:
## mean of x mean of y
## -2.339799 -2.632066
```



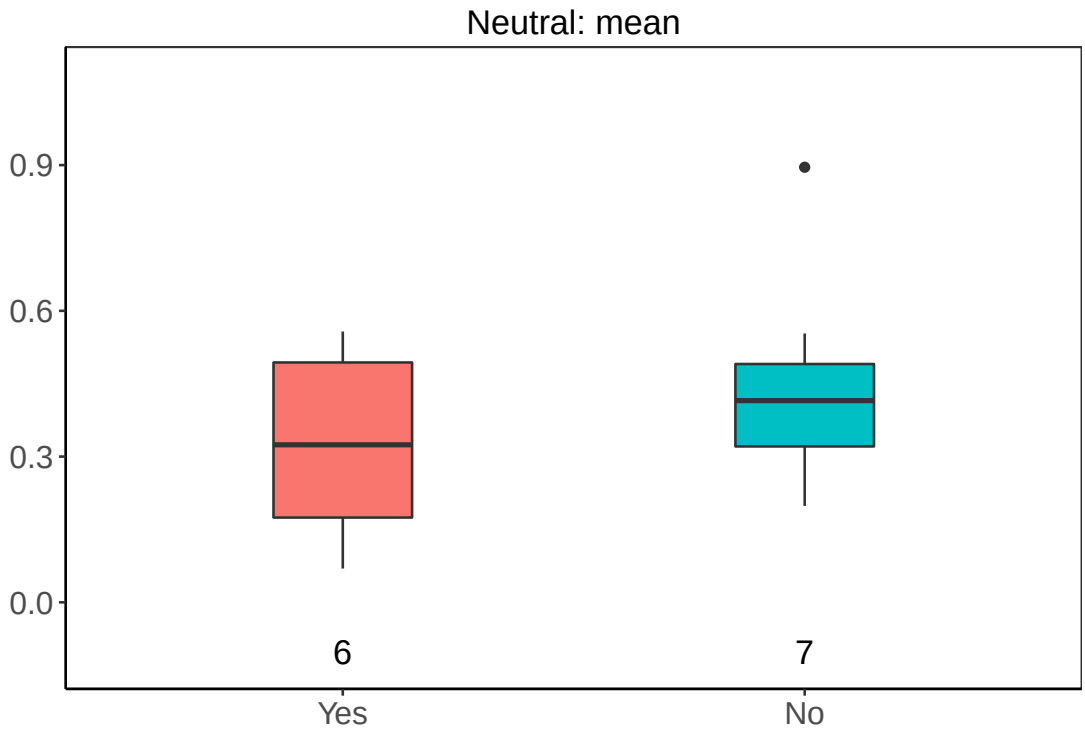

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.8224, df = 10.962, p-value = 0.01665
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.507416 4.108848
## sample estimates:
## mean of x mean of y
## -3.759651 -6.067783
```




```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.80667, df = 10.495, p-value = 0.4378
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3497185  0.1629309
## sample estimates:
## mean of x mean of y
## 0.2131178 0.3065116
```



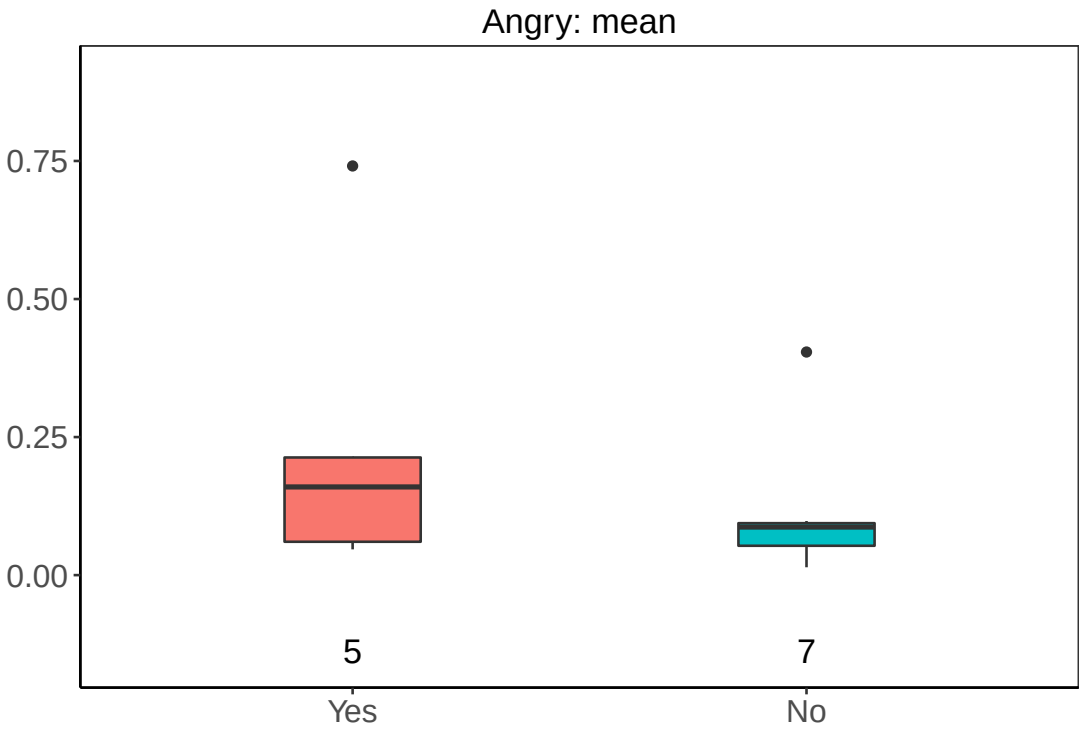

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.7525, df = 5.1344, p-value = 0.03907
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.001100523 0.028890545
## sample estimates:
##   mean of x   mean of y
## 0.016448430 0.001452895
```



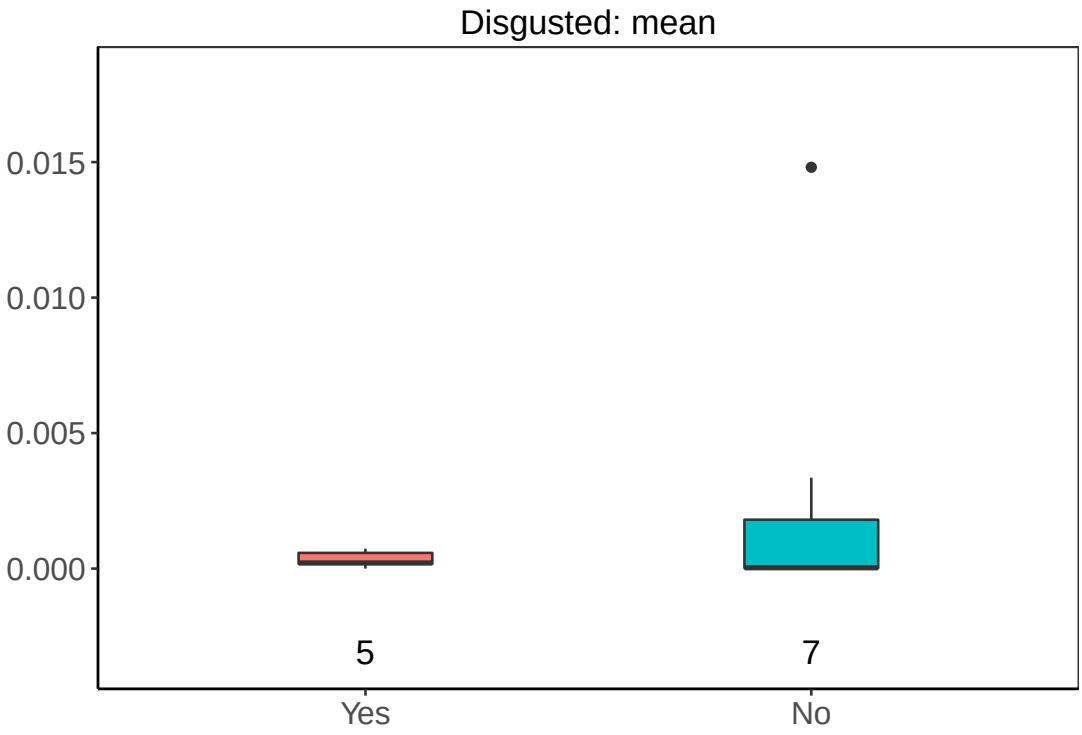

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -1.0217, df = 10.993, p-value = 0.3289
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3861413  0.1413097
## sample estimates:
## mean of x mean of y
## 0.3250125 0.4474283
```

Glass Result - Removing Subjects

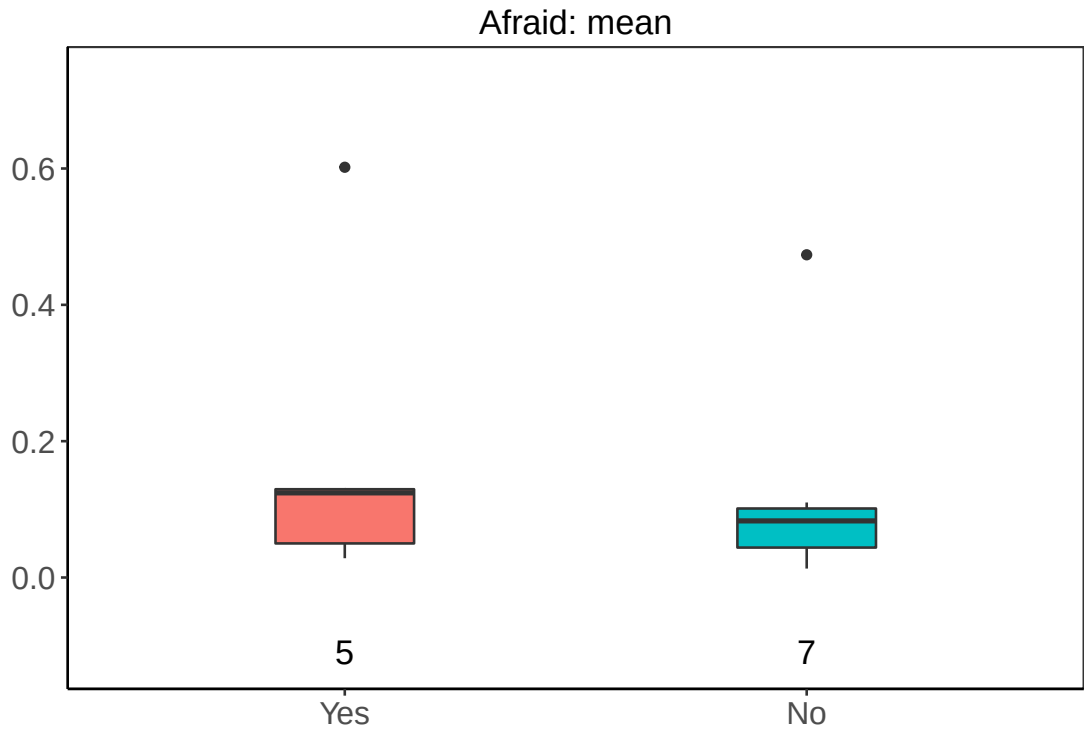
```
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T021"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



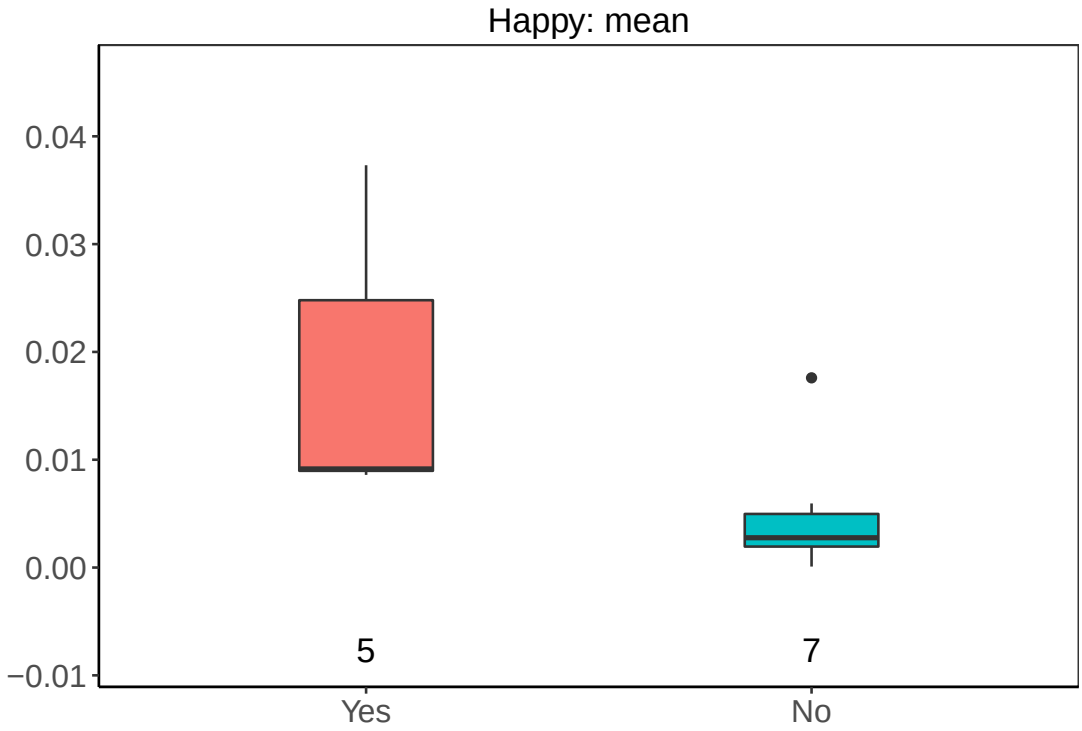

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 1.1106, df = 8.176, p-value = 0.2983
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.7370333  2.1163960
## sample estimates:
## mean of x mean of y
## -1.910612 -2.600293
```



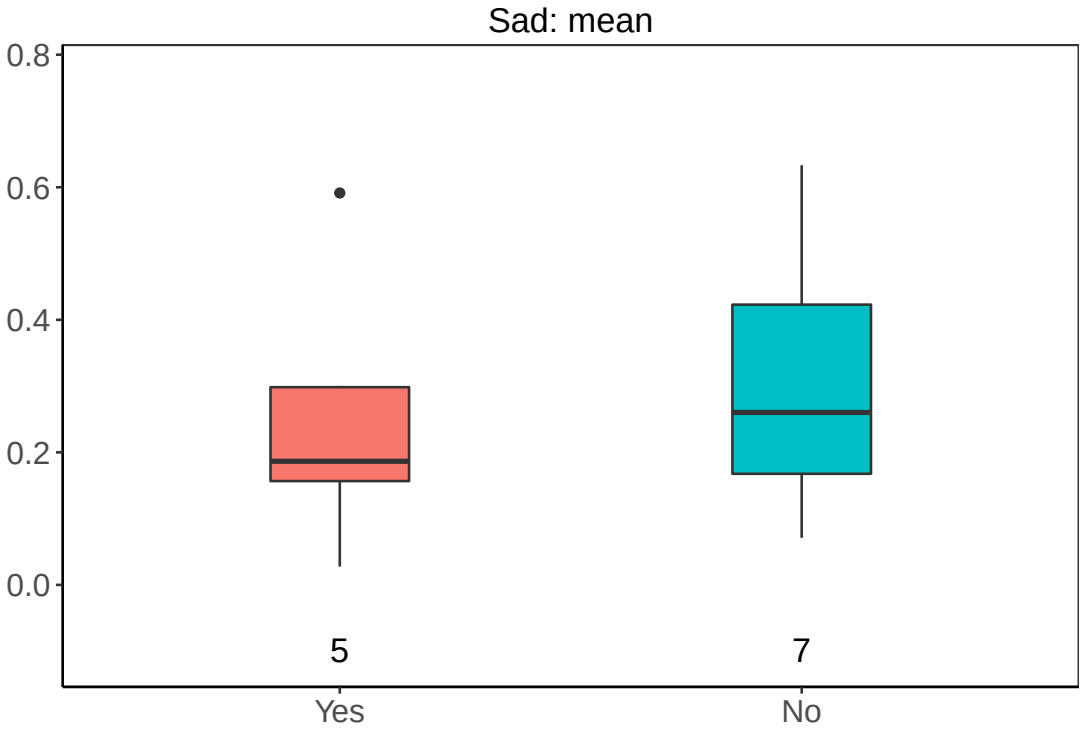

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 18, p-value = 1
## alternative hypothesis: true location shift is not equal to 0
```



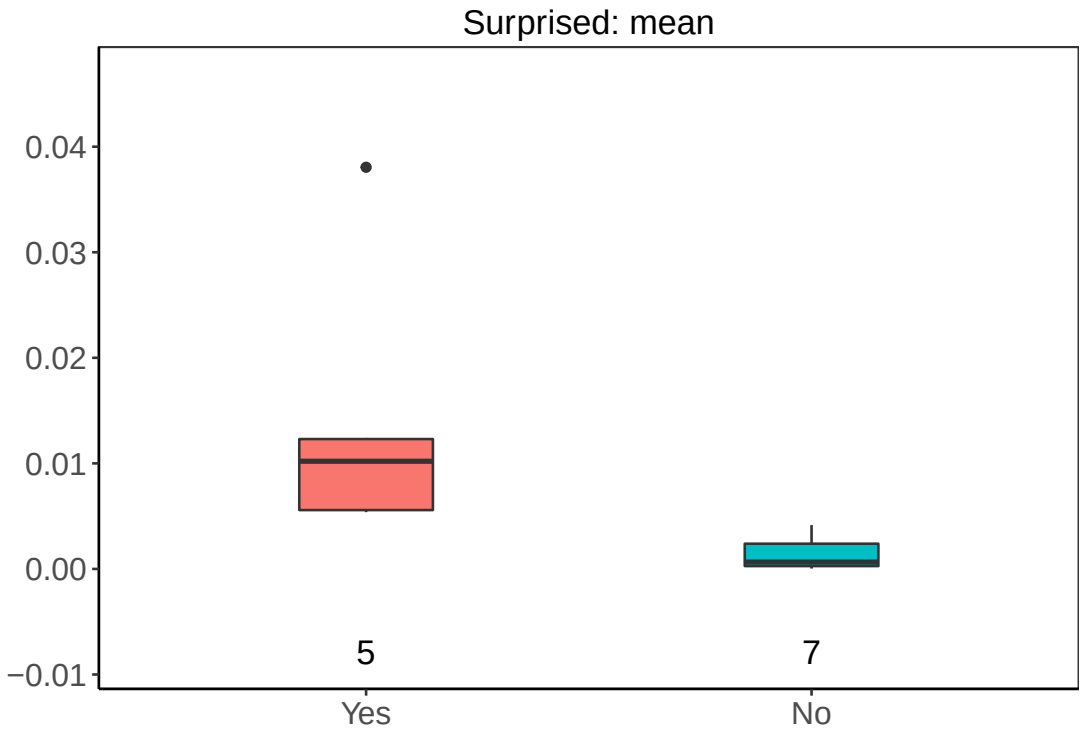

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.58988, df = 8.4493, p-value = 0.5707
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.126856  1.911195
## sample estimates:
## mean of x mean of y
## -2.239897 -2.632066
```



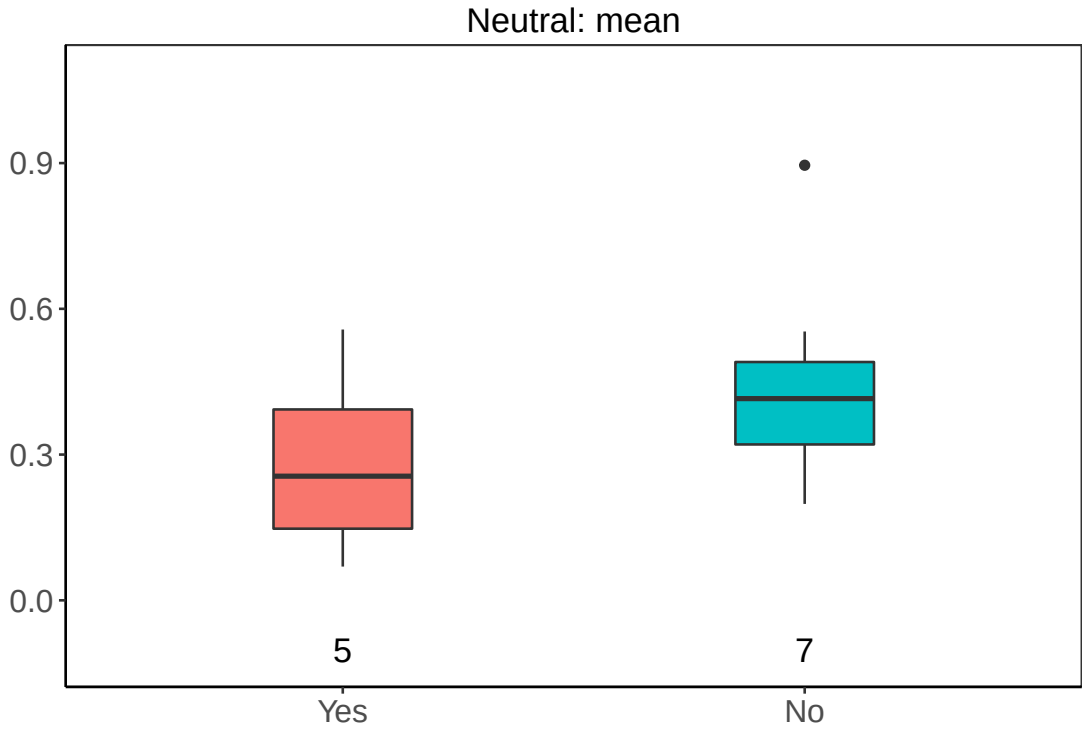

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.6548, df = 8.5471, p-value = 0.02743
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.2590856 3.4164883
## sample estimates:
## mean of x mean of y
## -4.229996 -6.067783
```



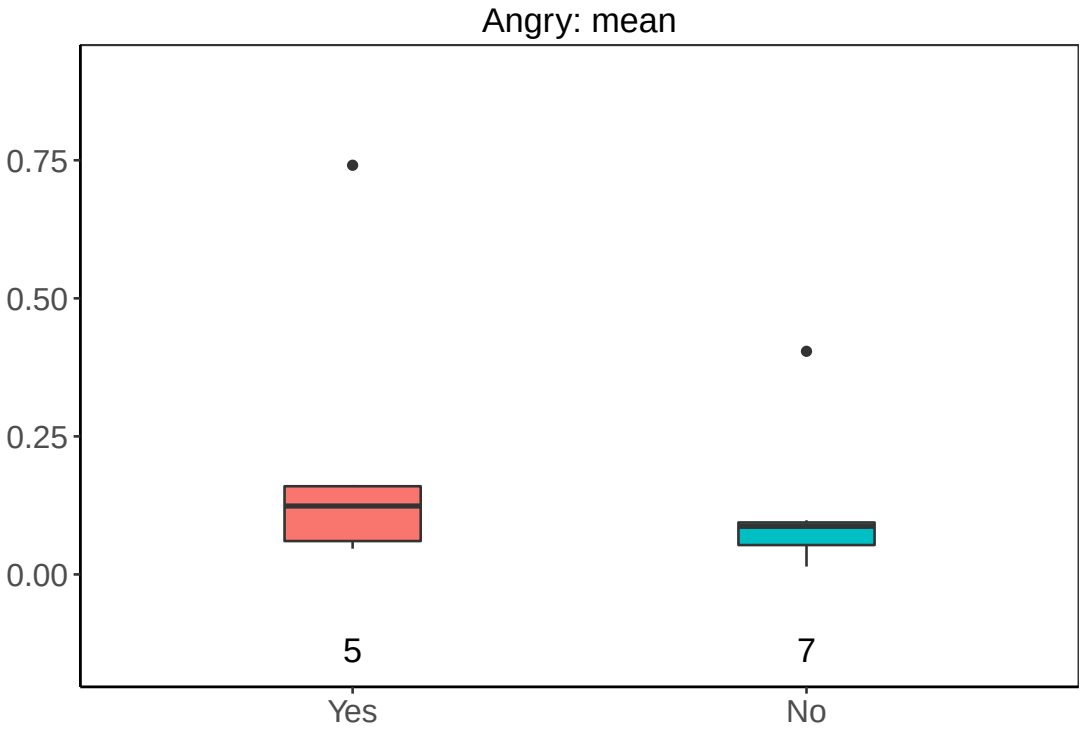

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.44548, df = 8.479, p-value = 0.6671
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3331017  0.2243512
## sample estimates:
## mean of x mean of y
## 0.2521363 0.3065116
```



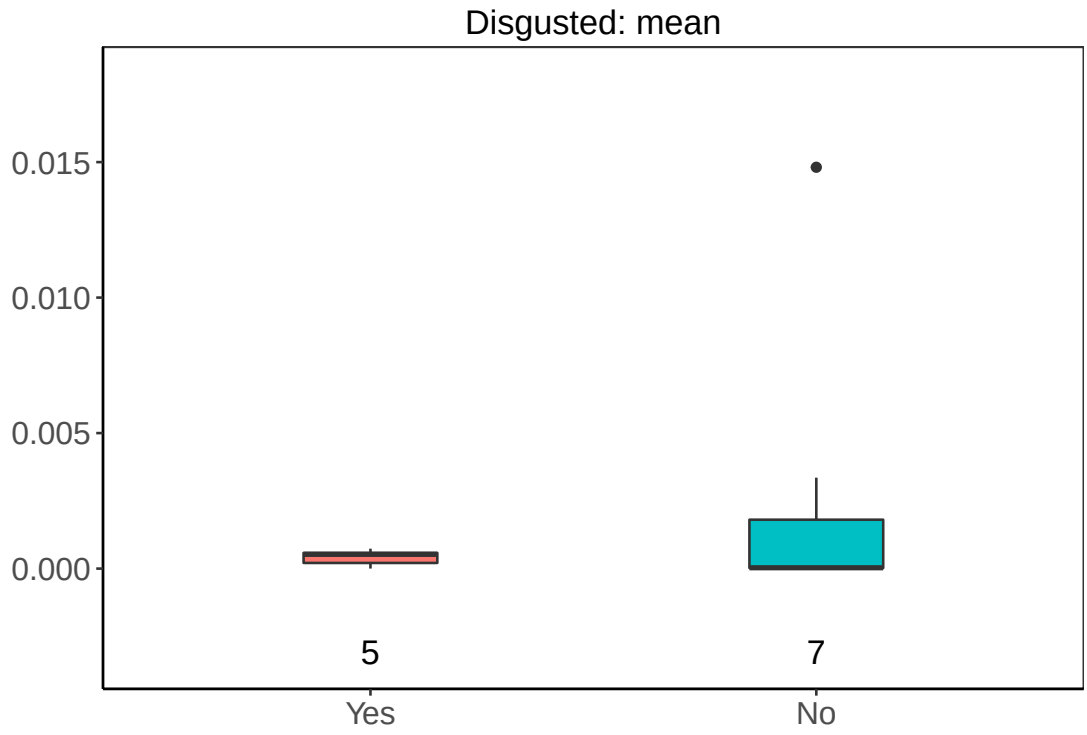

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 3.8662, df = 8.7941, p-value = 0.003981
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  1.213771 4.666932
## sample estimates:
## mean of x mean of y
## -4.533151 -7.473502
```



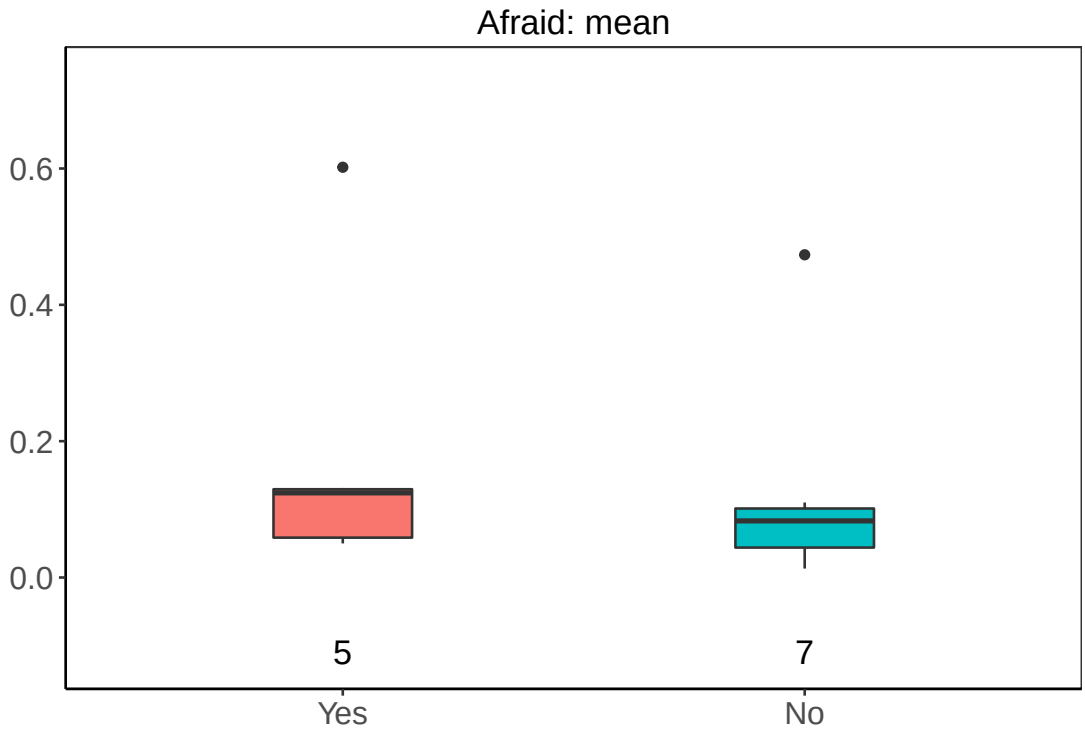

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -1.3187, df = 9.6113, p-value = 0.2178
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.4395680  0.1138303
## sample estimates:
## mean of x mean of y
## 0.2845594 0.4474283
##
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T051"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



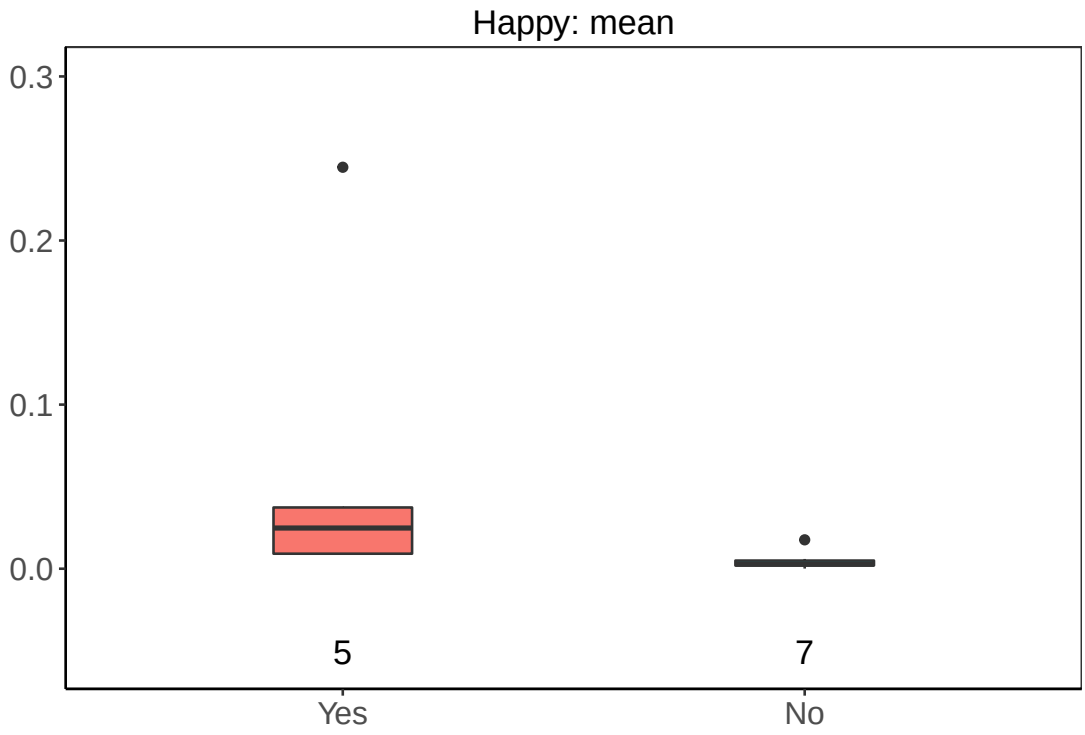

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.94585, df = 8.276, p-value = 0.371
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.8276939  1.9902282
## sample estimates:
## mean of x mean of y
## -2.019026 -2.600293
```



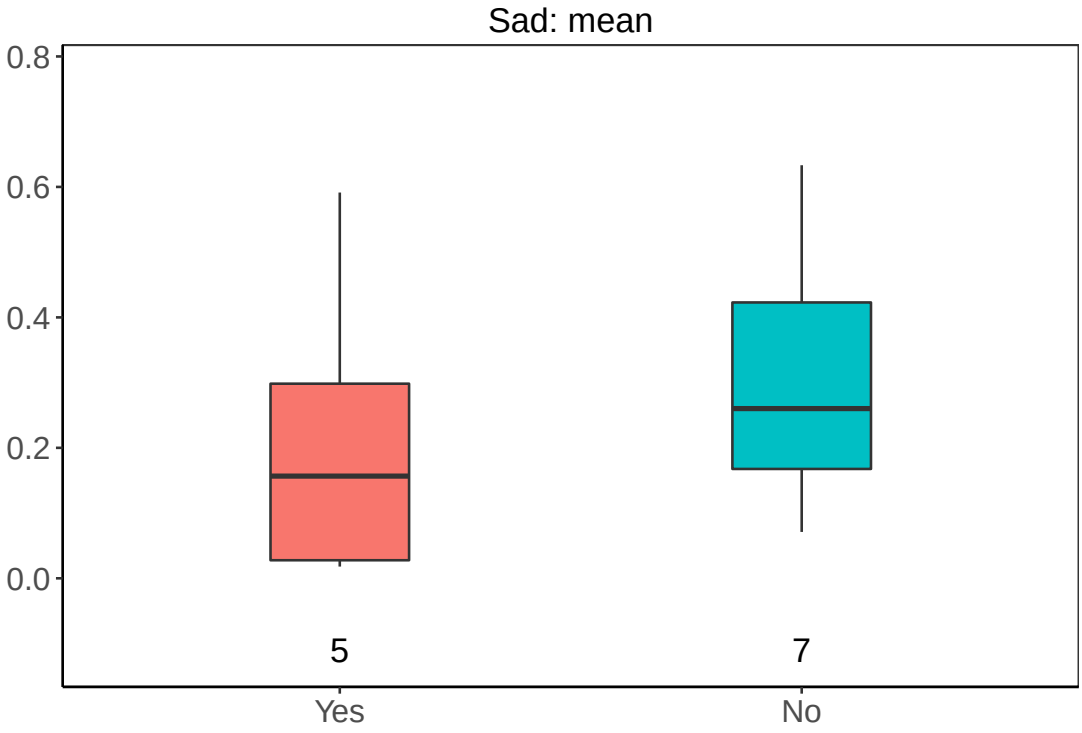

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 19, p-value = 0.8763
## alternative hypothesis: true location shift is not equal to 0
```



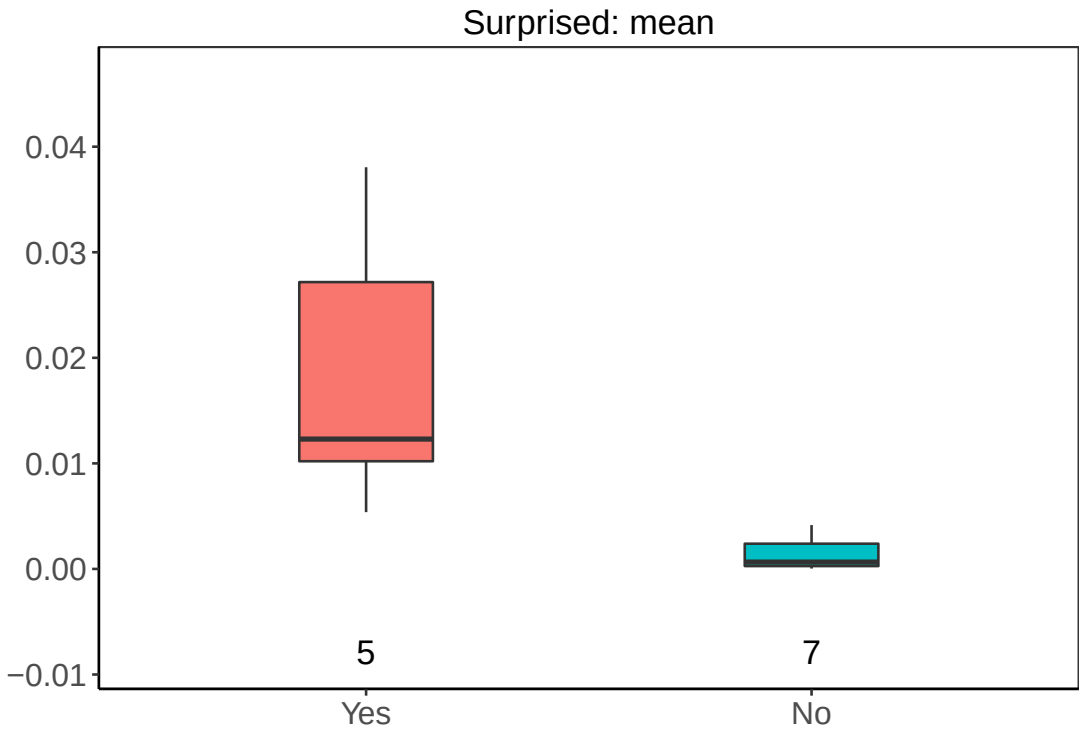

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.88738, df = 9.3431, p-value = 0.3971
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.824995  1.899872
## sample estimates:
## mean of x mean of y
## -2.094628 -2.632066
```



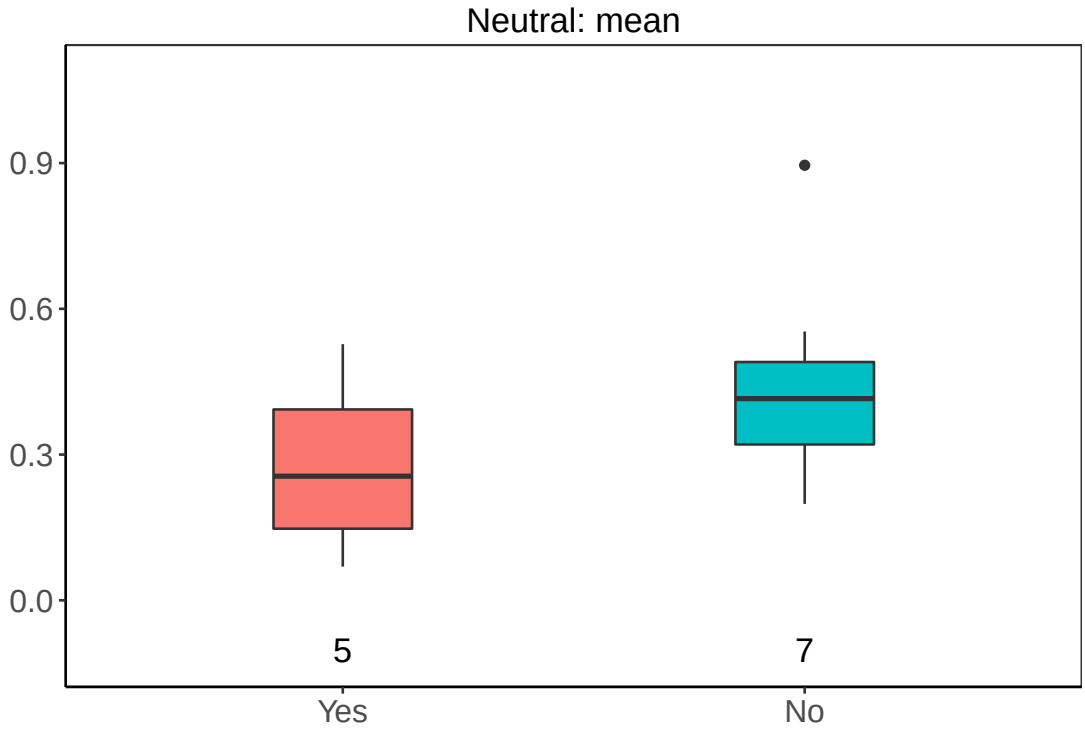

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.8734, df = 9.6599, p-value = 0.01714
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.5518635 4.4461124
## sample estimates:
## mean of x mean of y
## -3.568795 -6.067783
```



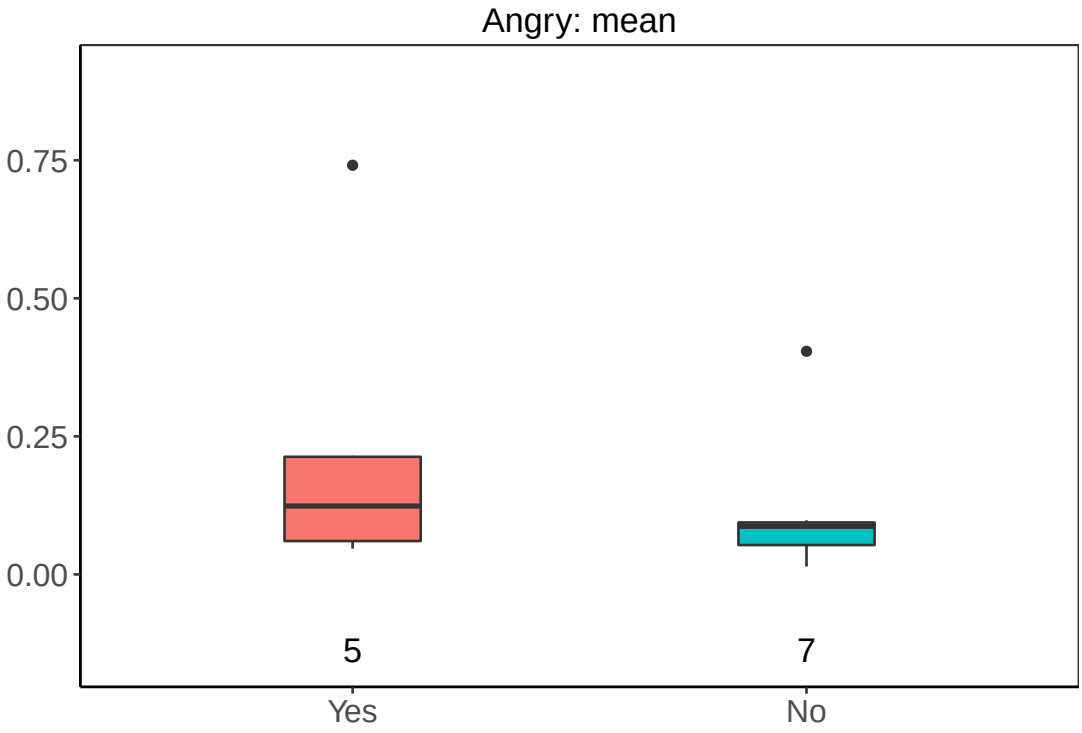

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.67282, df = 7.818, p-value = 0.5205
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3912148  0.2150447
## sample estimates:
## mean of x mean of y
## 0.2184266 0.3065116
```



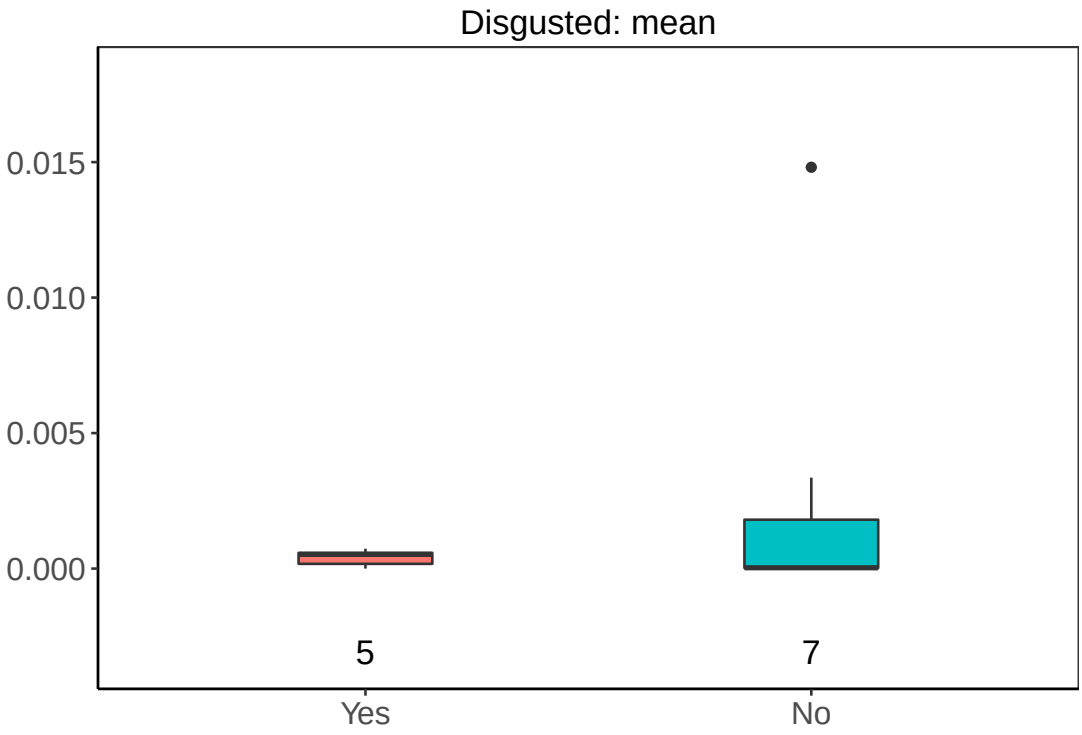

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.814, df = 4.0855, p-value = 0.04697
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.0003681726 0.0339722738
## sample estimates:
##   mean of x   mean of y
## 0.018623119 0.001452895
```



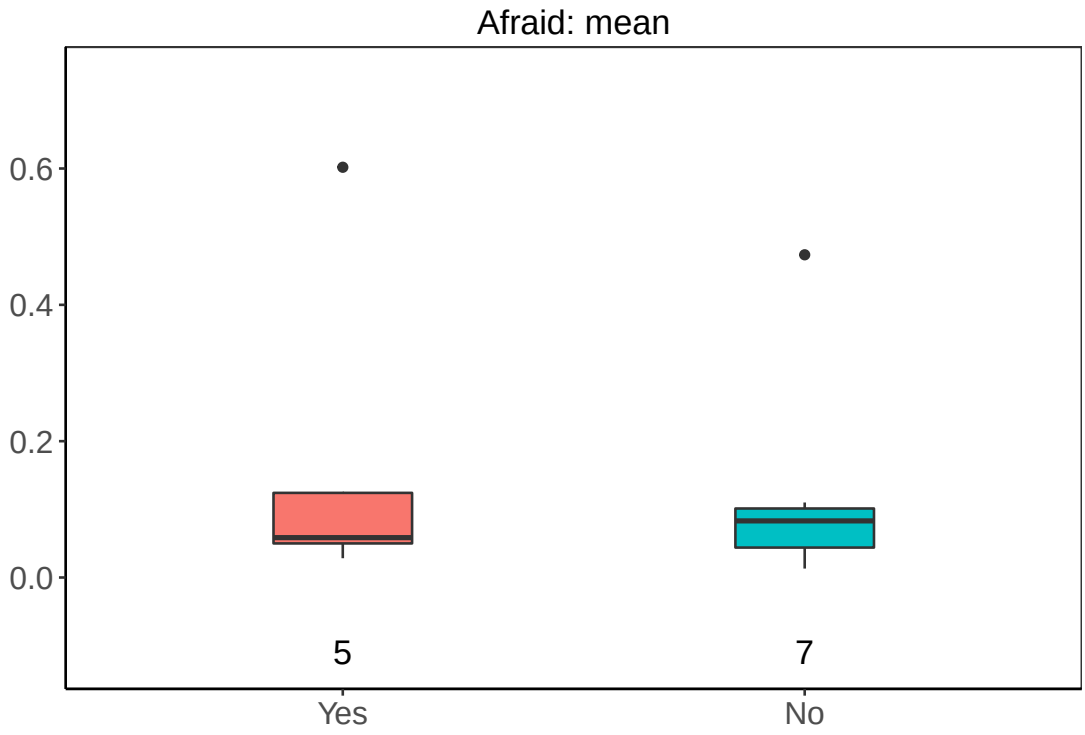

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -1.4042, df = 9.7927, p-value = 0.1912
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.43766750  0.09987887
## sample estimates:
## mean of x mean of y
## 0.2785340 0.4474283
##
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T077"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



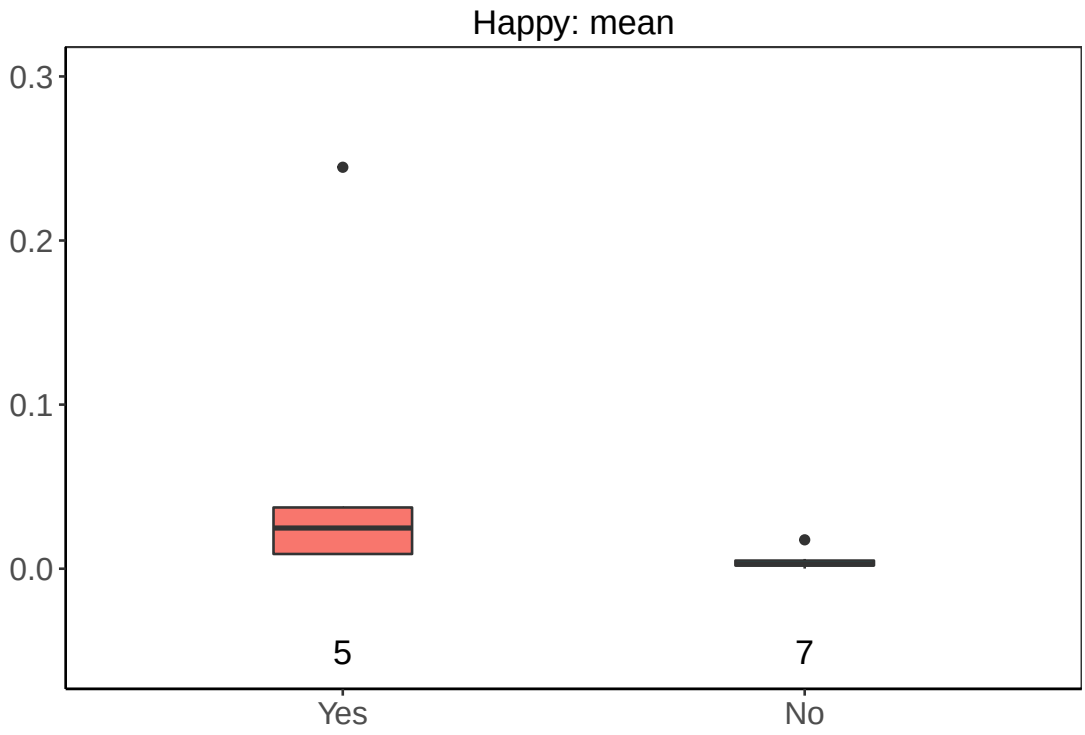

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 1.028, df = 8.168, p-value = 0.3334
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.7892324  2.0670650
## sample estimates:
## mean of x mean of y
## -1.961377 -2.600293
```



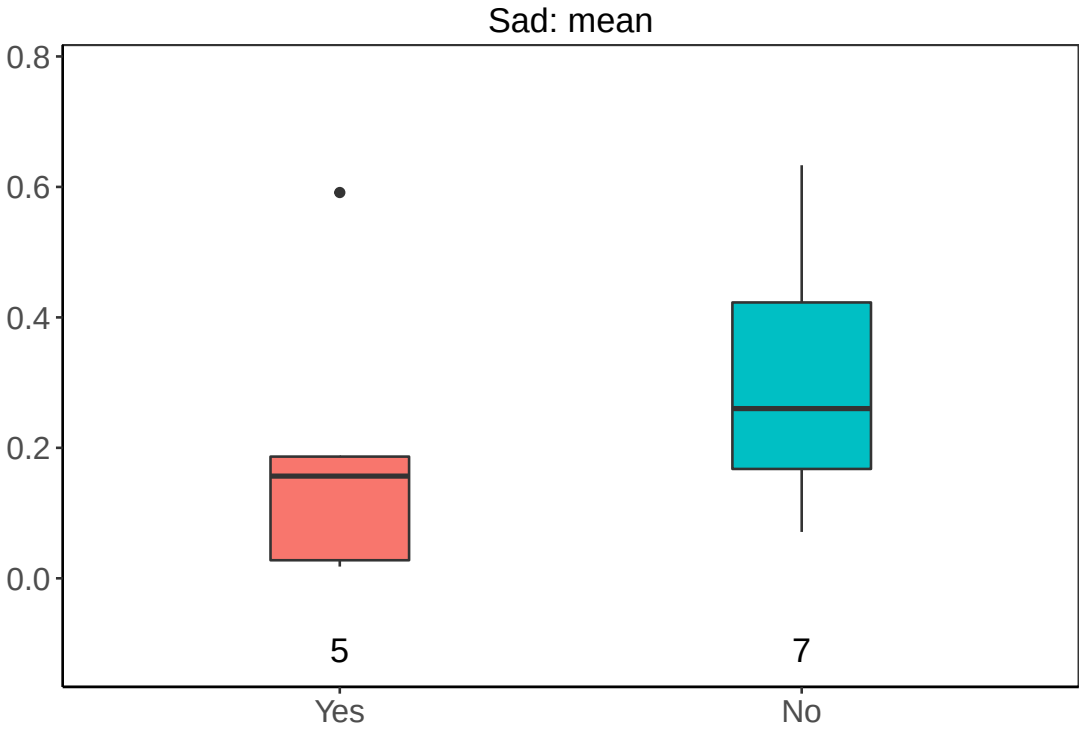

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 19, p-value = 0.8763
## alternative hypothesis: true location shift is not equal to 0
```



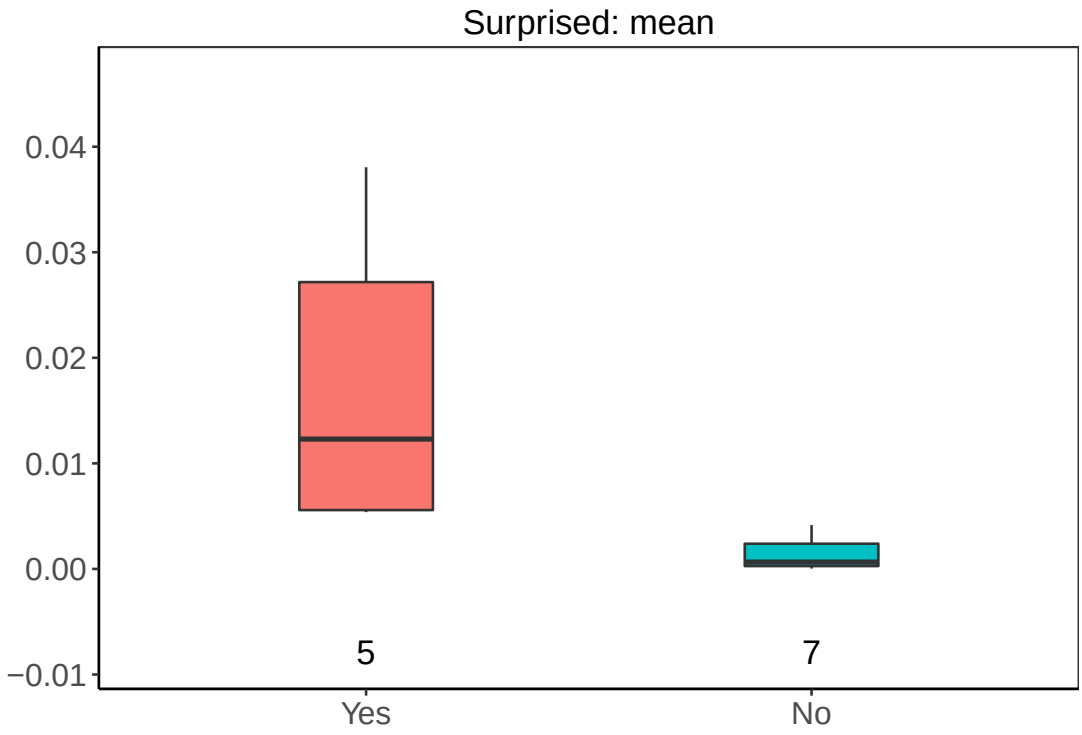

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.34687, df = 8.3437, p-value = 0.7373
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.305700  1.771966
## sample estimates:
## mean of x mean of y
## -2.398933 -2.632066
```



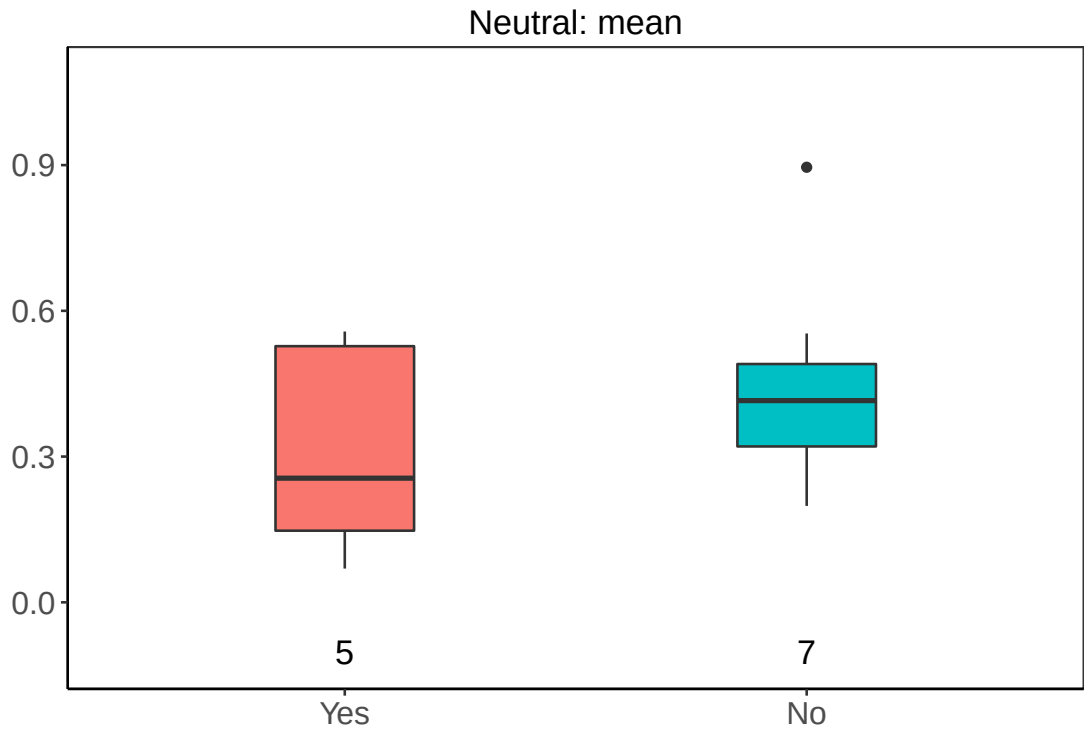

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.8646, df = 9.6492, p-value = 0.01741
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.5447559 4.4453515
## sample estimates:
## mean of x mean of y
## -3.572729 -6.067783
```



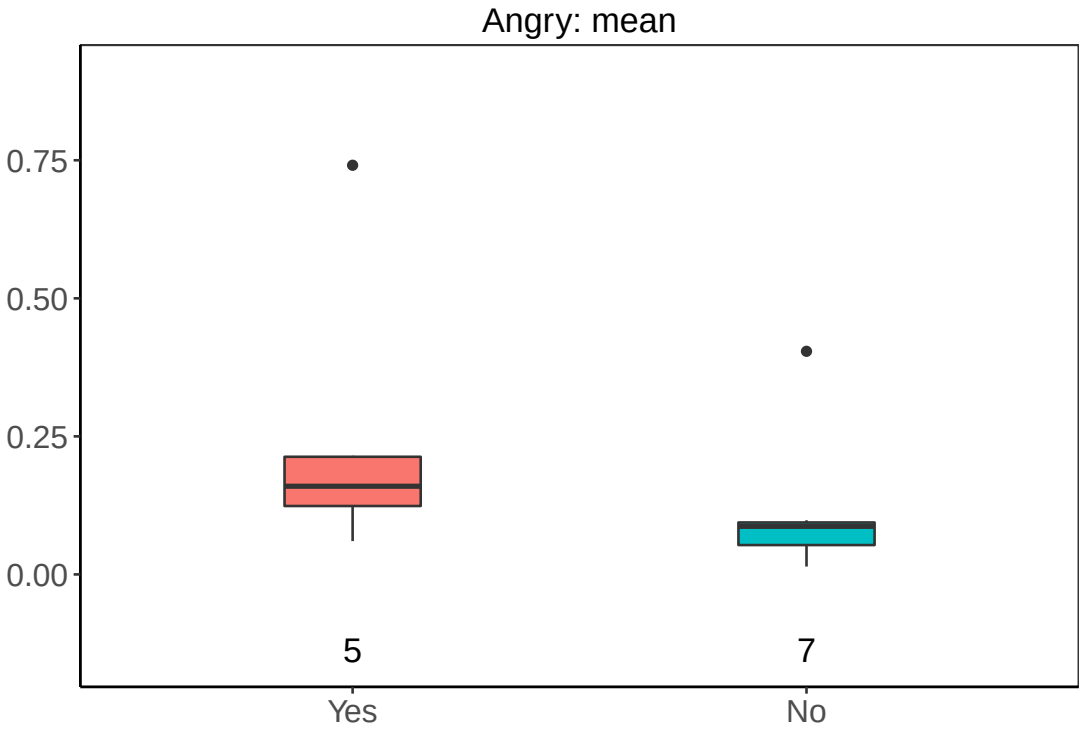

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.85345, df = 7.9235, p-value = 0.4185
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.4093593  0.1884737
## sample estimates:
## mean of x mean of y
## 0.1960688 0.3065116
```



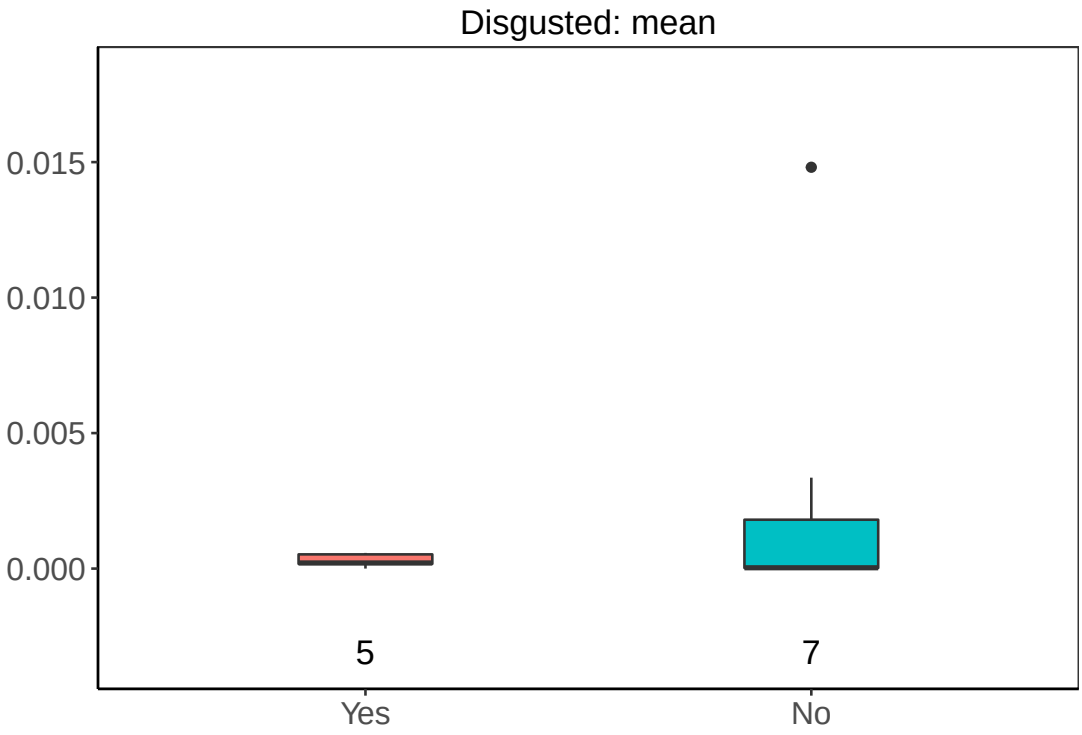

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.507, df = 4.0757, p-value = 0.06512
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.001614741  0.034103533
## sample estimates:
##   mean of x   mean of y
## 0.017697291 0.001452895
```



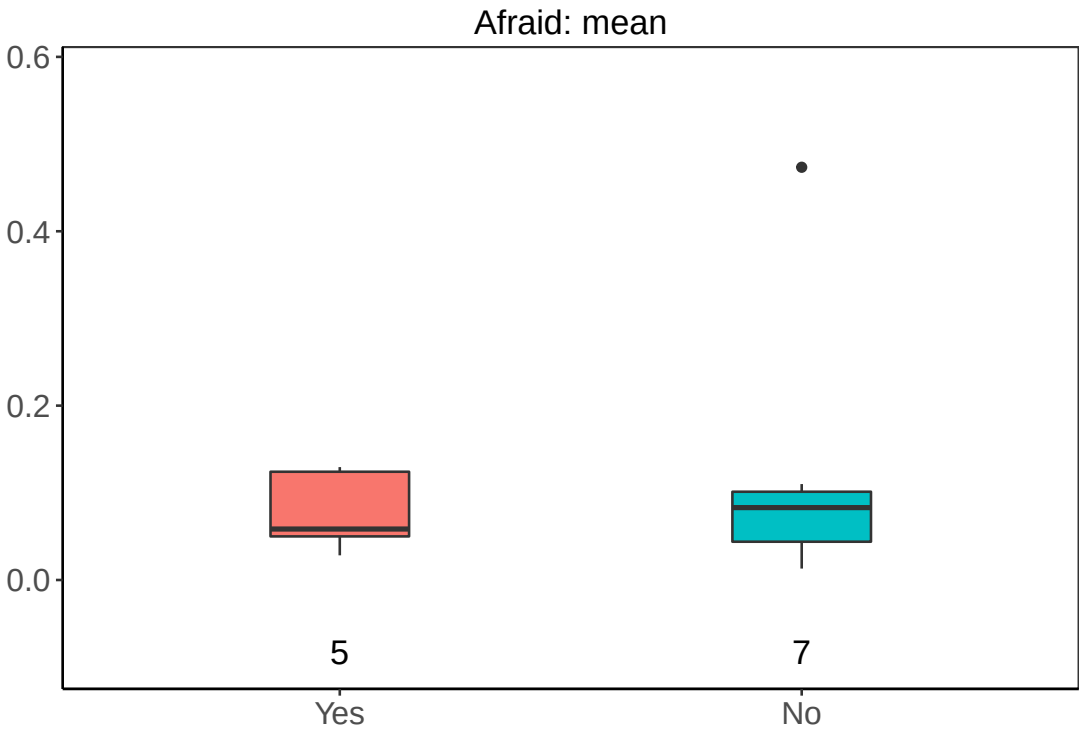

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -1.03, df = 9.0233, p-value = 0.3298
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.4345440  0.1625549
## sample estimates:
## mean of x mean of y
## 0.3114337 0.4474283
##
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T079"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



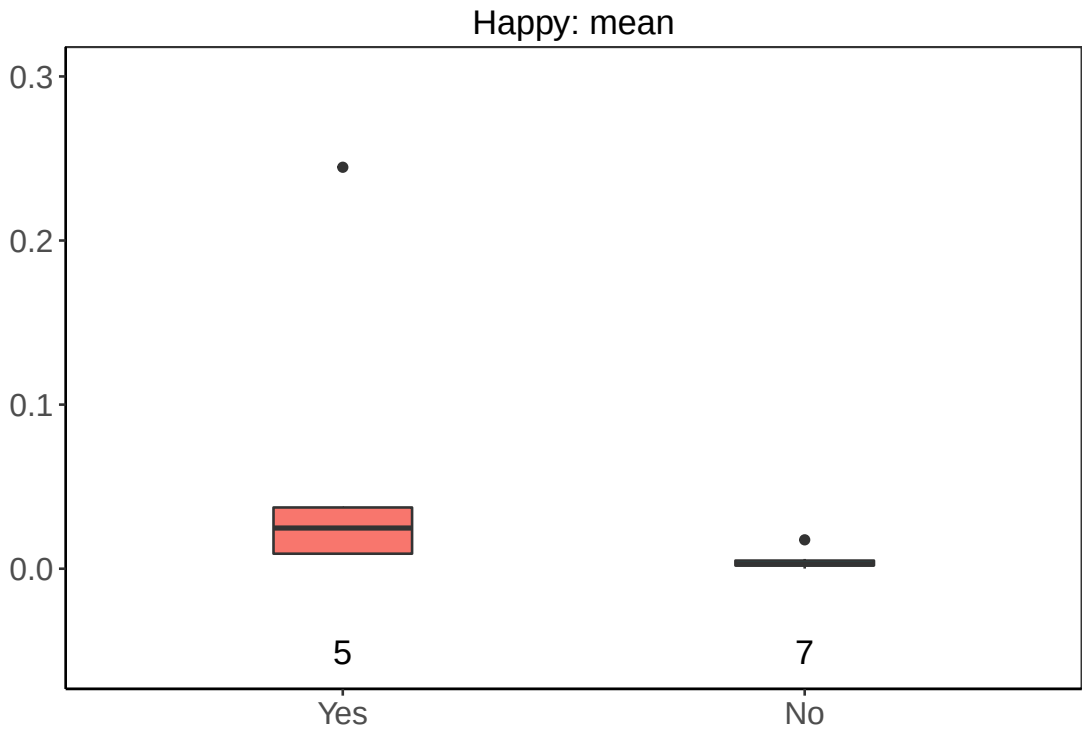

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 1.5869, df = 9.2152, p-value = 0.1462
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3721189  2.1421972
## sample estimates:
## mean of x mean of y
## -1.715254 -2.600293
```



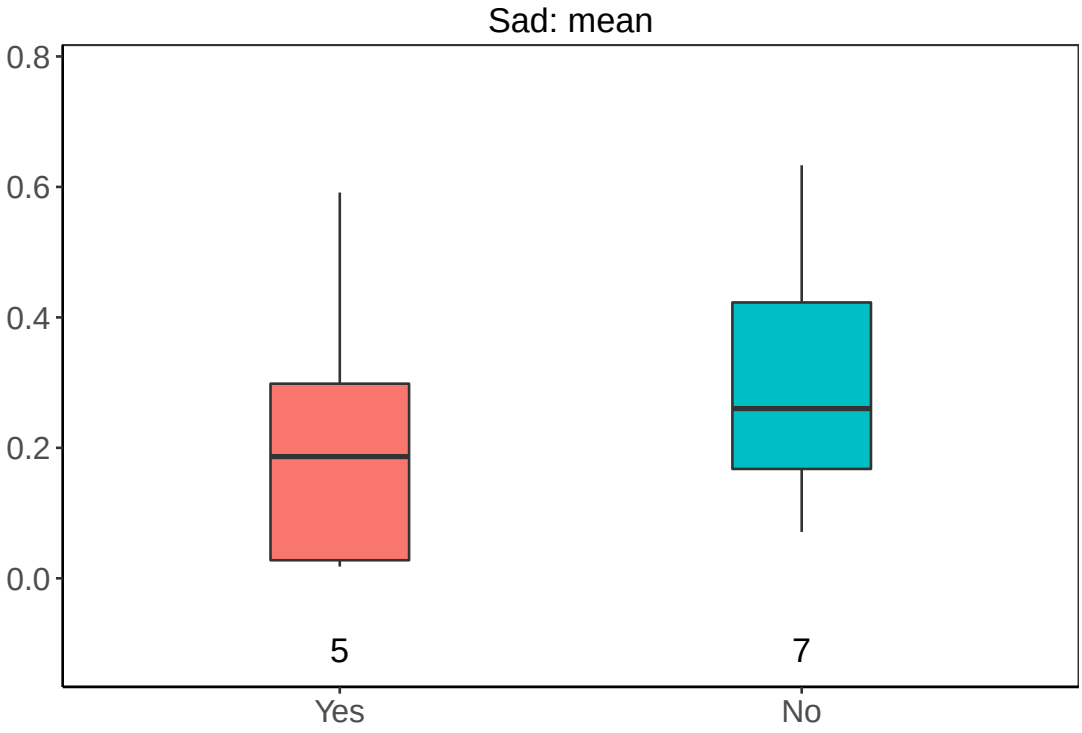

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 18, p-value = 1
## alternative hypothesis: true location shift is not equal to 0
```



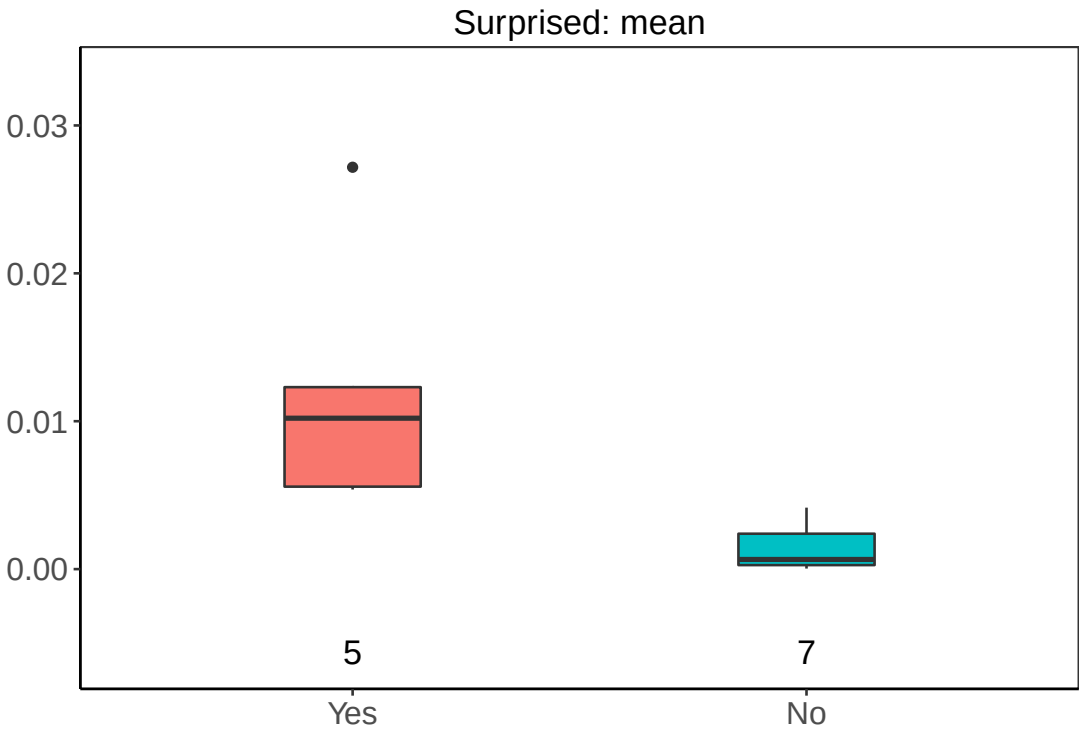

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.14665, df = 9.773, p-value = 0.8864
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.204146  1.055863
## sample estimates:
## mean of x mean of y
## -2.706208 -2.632066
```



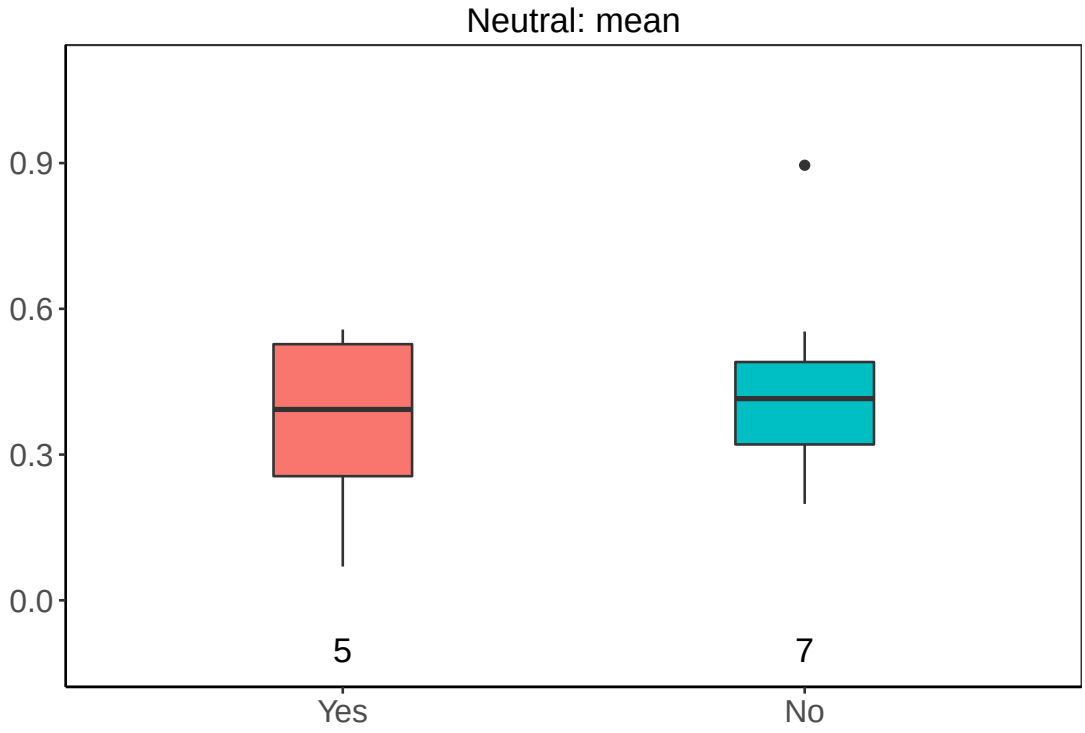

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.8927, df = 9.6836, p-value = 0.01655
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.5674709 4.4475325
## sample estimates:
## mean of x mean of y
## -3.560281 -6.067783
```



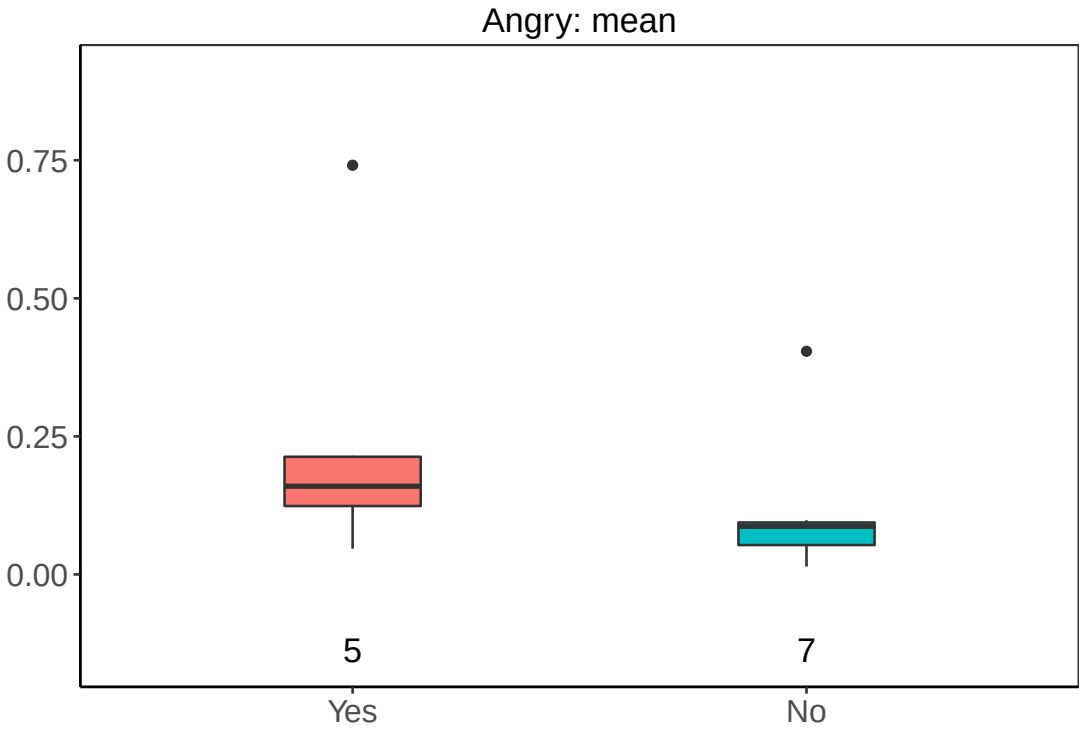

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.62988, df = 7.8573, p-value = 0.5466
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3836451  0.2194354
## sample estimates:
## mean of x mean of y
## 0.2244068 0.3065116
```



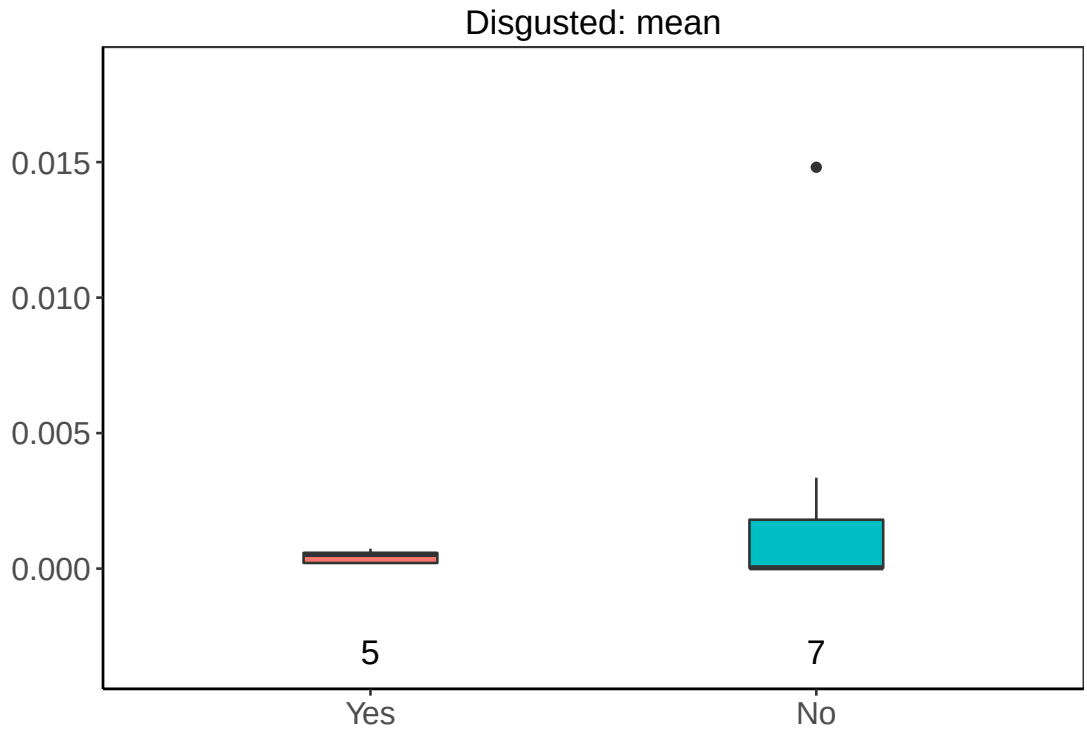

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.6424, df = 4.1982, p-value = 0.05466
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.0003358139  0.0216852057
## sample estimates:
##   mean of x   mean of y
## 0.012127591 0.001452895
```



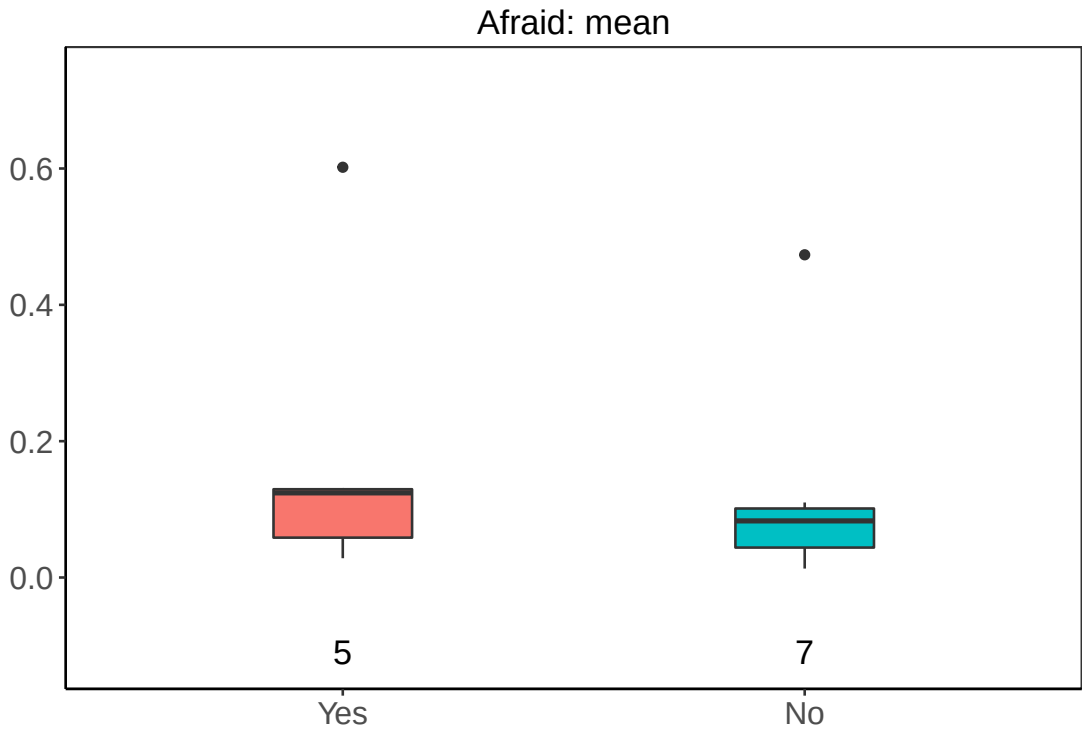

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.69102, df = 9.4659, p-value = 0.5061
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3692784  0.1954702
## sample estimates:
## mean of x mean of y
## 0.3605242 0.4474283
##
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T139"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



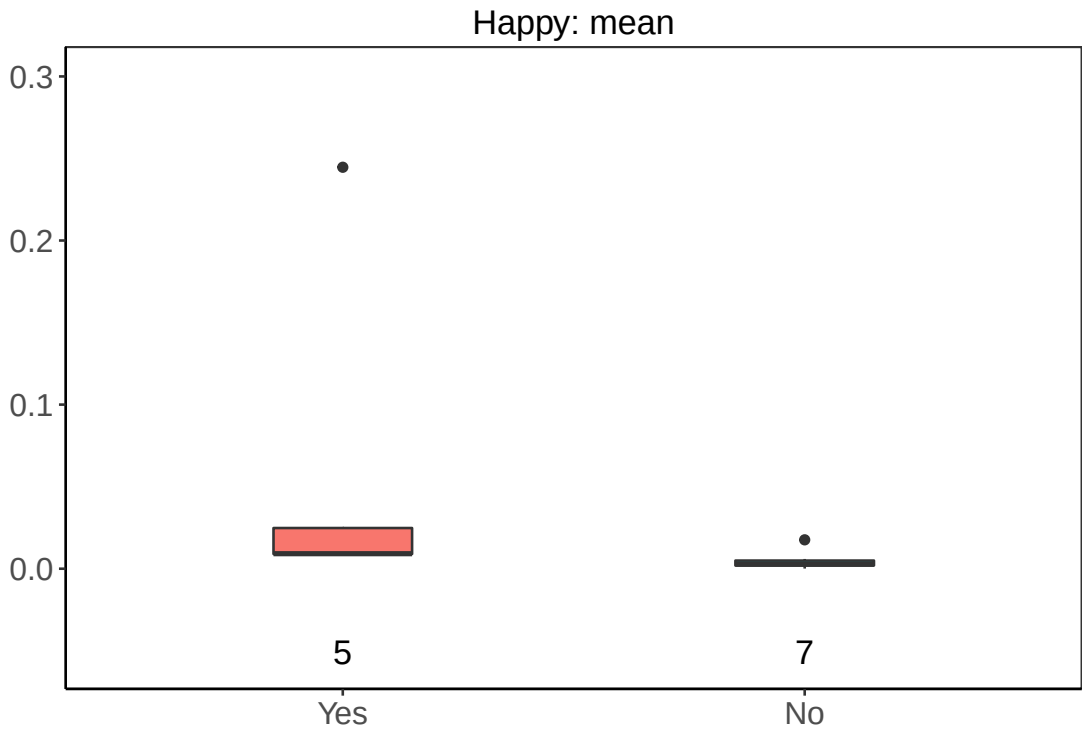

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 1.4254, df = 8.7613, p-value = 0.1887
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.4948043  2.1616443
## sample estimates:
## mean of x mean of y
## -1.766873 -2.600293
```



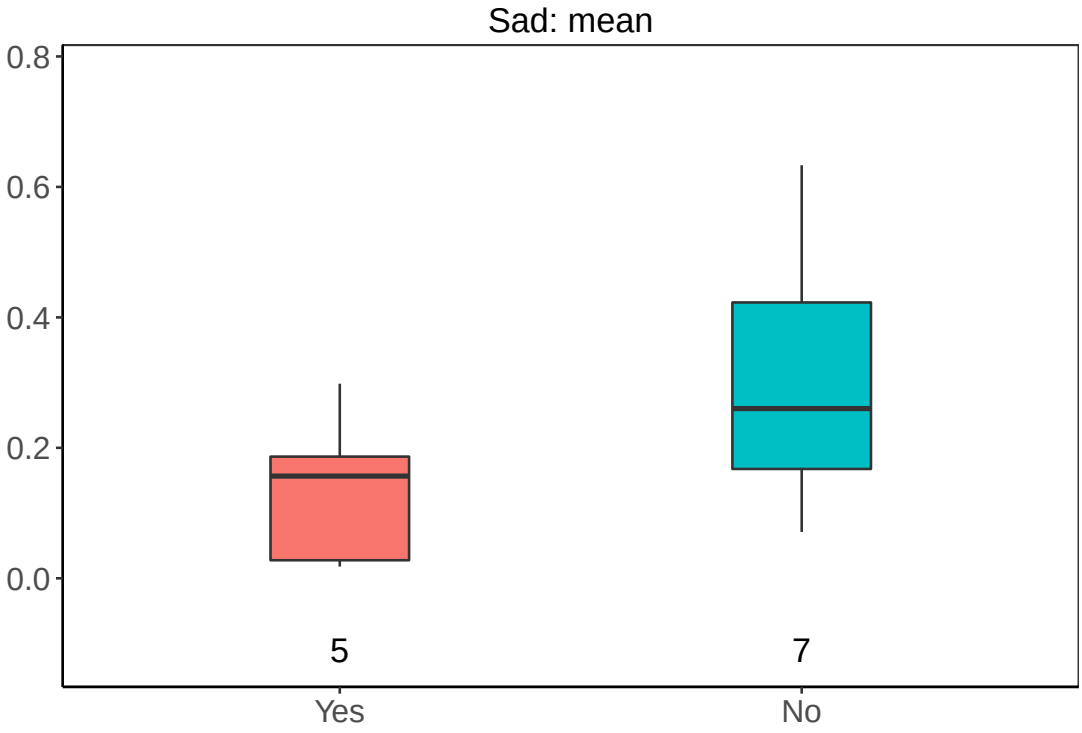

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.94554, df = 6.6944, p-value = 0.3773
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.773537  4.100781
## sample estimates:
## mean of x mean of y
## -7.872137 -9.035760
```



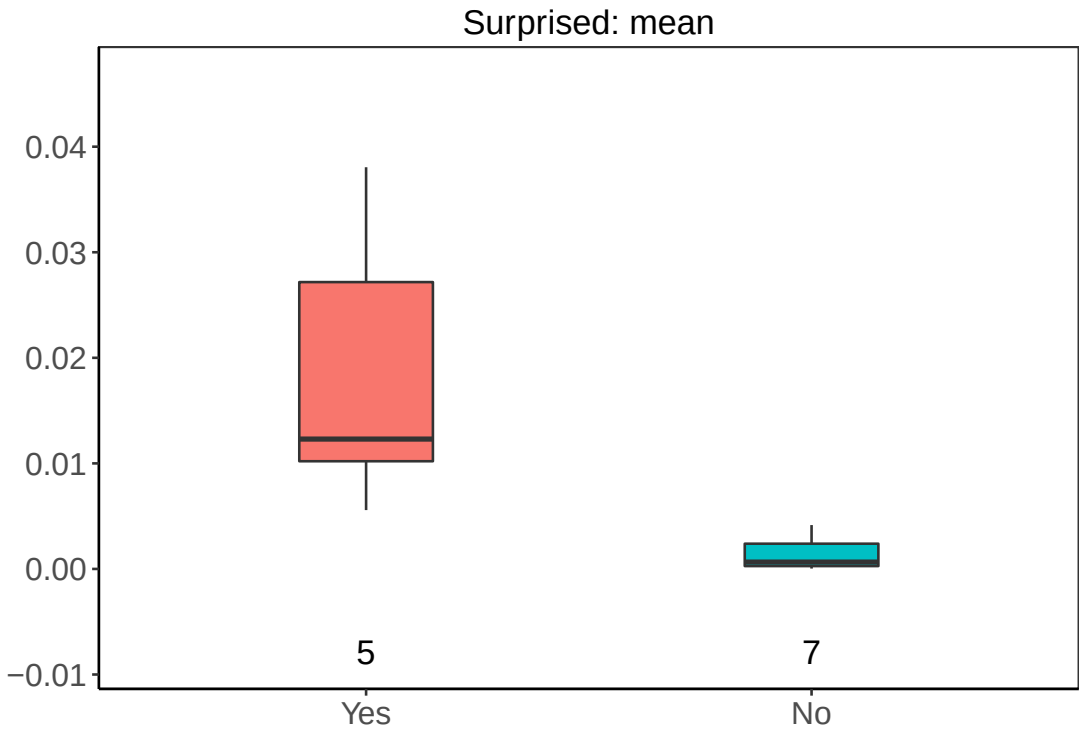

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.64491, df = 8.5707, p-value = 0.5359
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.073337  1.920261
## sample estimates:
## mean of x mean of y
## -2.208604 -2.632066
```



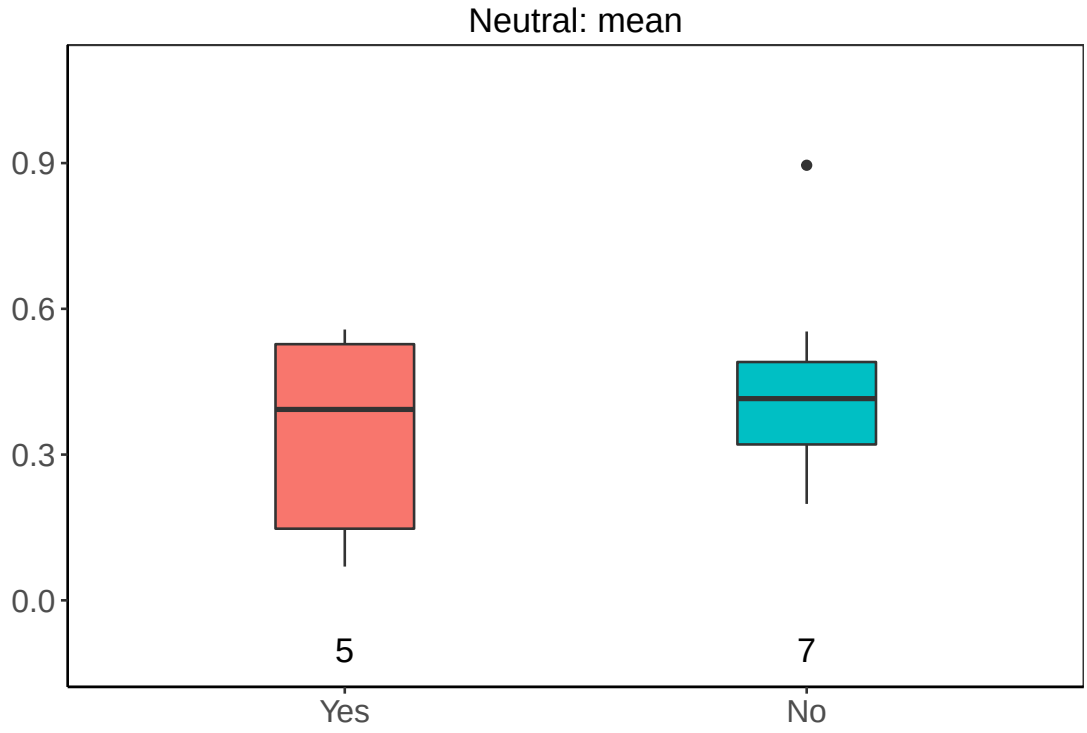

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 32, p-value = 0.01768
## alternative hypothesis: true location shift is not equal to 0
```



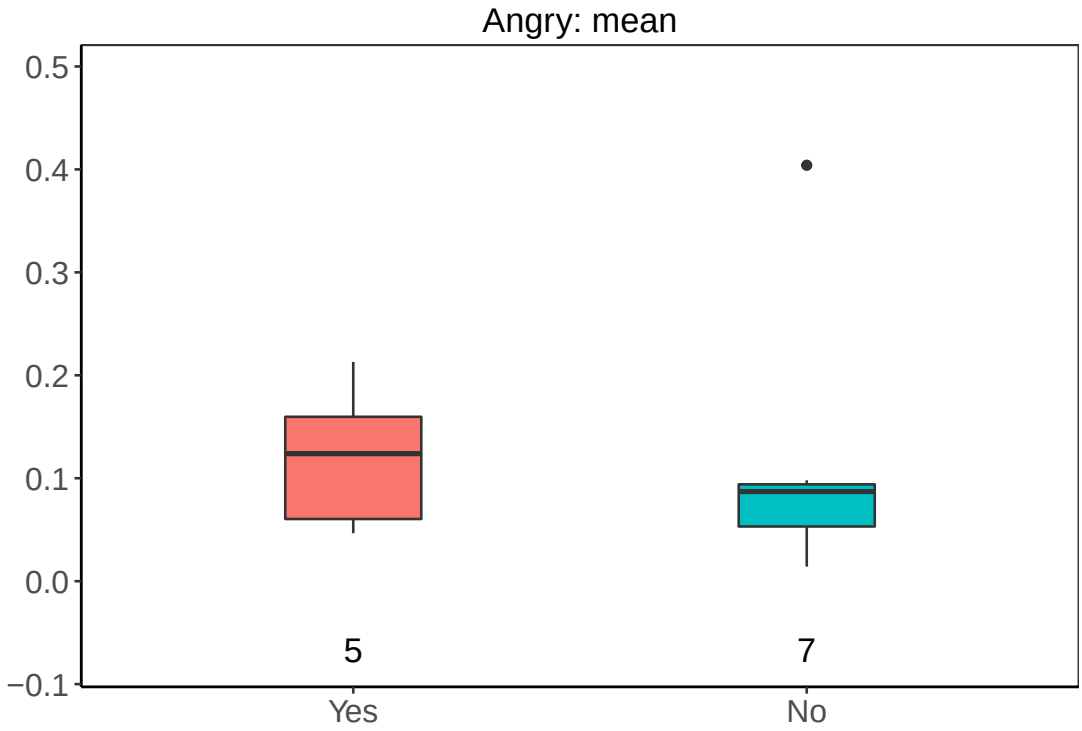

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -1.8232, df = 9.7389, p-value = 0.09907
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.37639534  0.03830146
## sample estimates:
## mean of x mean of y
## 0.1374647 0.3065116
```



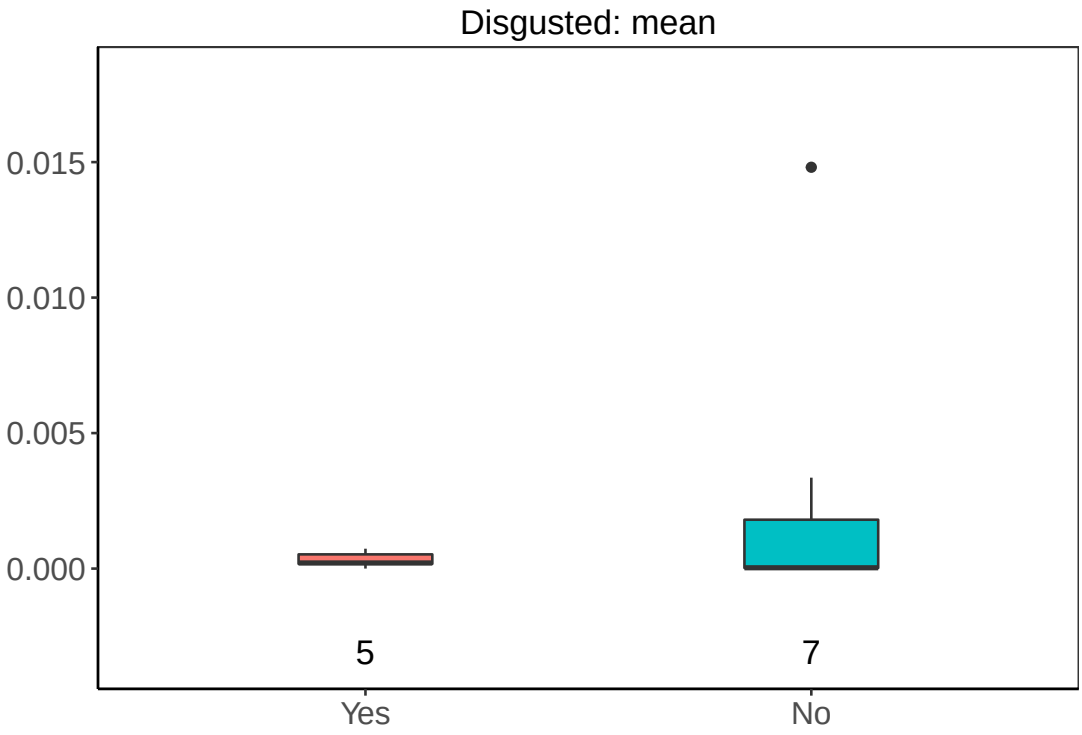

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.83, df = 4.0861, p-value = 0.04619
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.0004650931 0.0339525189
## sample estimates:
##   mean of x   mean of y
## 0.018661701 0.001452895
```



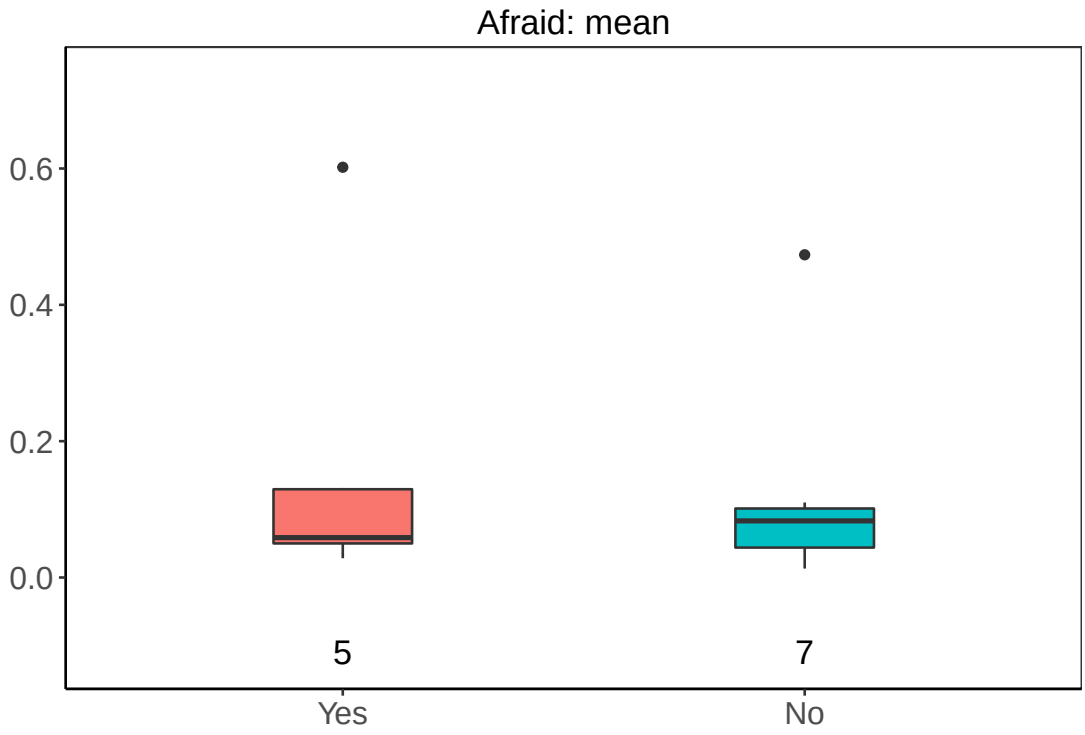

```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.82227, df = 9.0269, p-value = 0.4321
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.4069414  0.1898986
## sample estimates:
## mean of x mean of y
## 0.3389069 0.4474283
##
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
## [1] "Removing Participant: T144"
## [1] "~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"
```



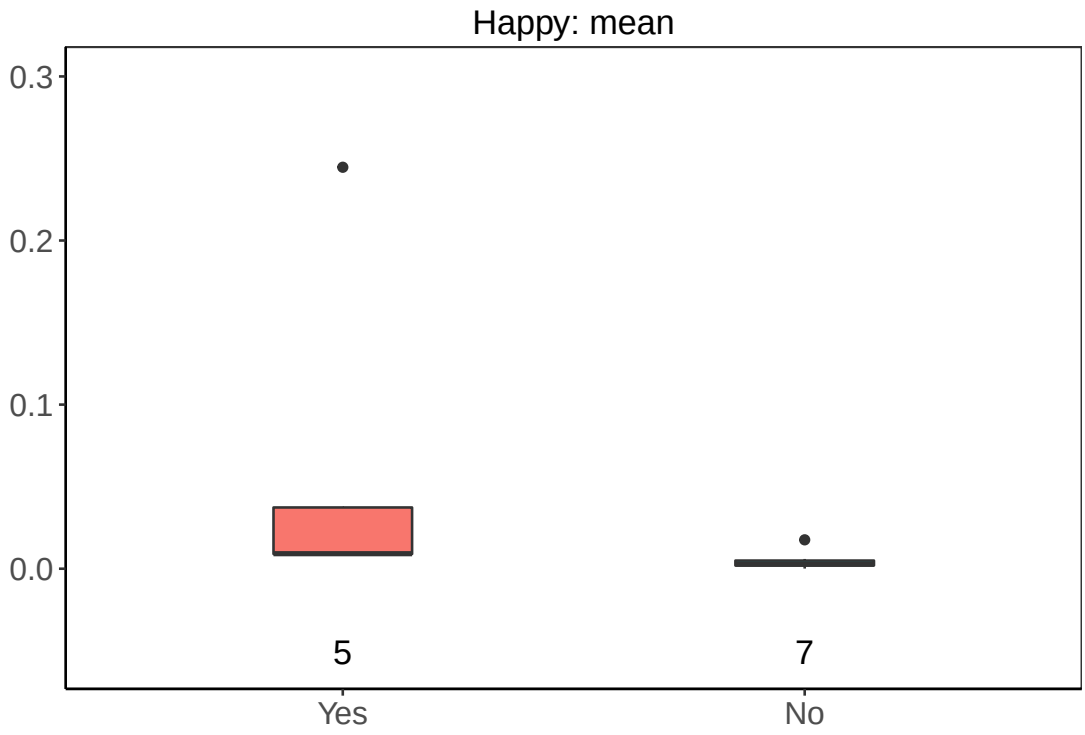

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.69903, df = 9.9617, p-value = 0.5005
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.7266921  1.3905987
## sample estimates:
## mean of x mean of y
## -2.268340 -2.600293
```



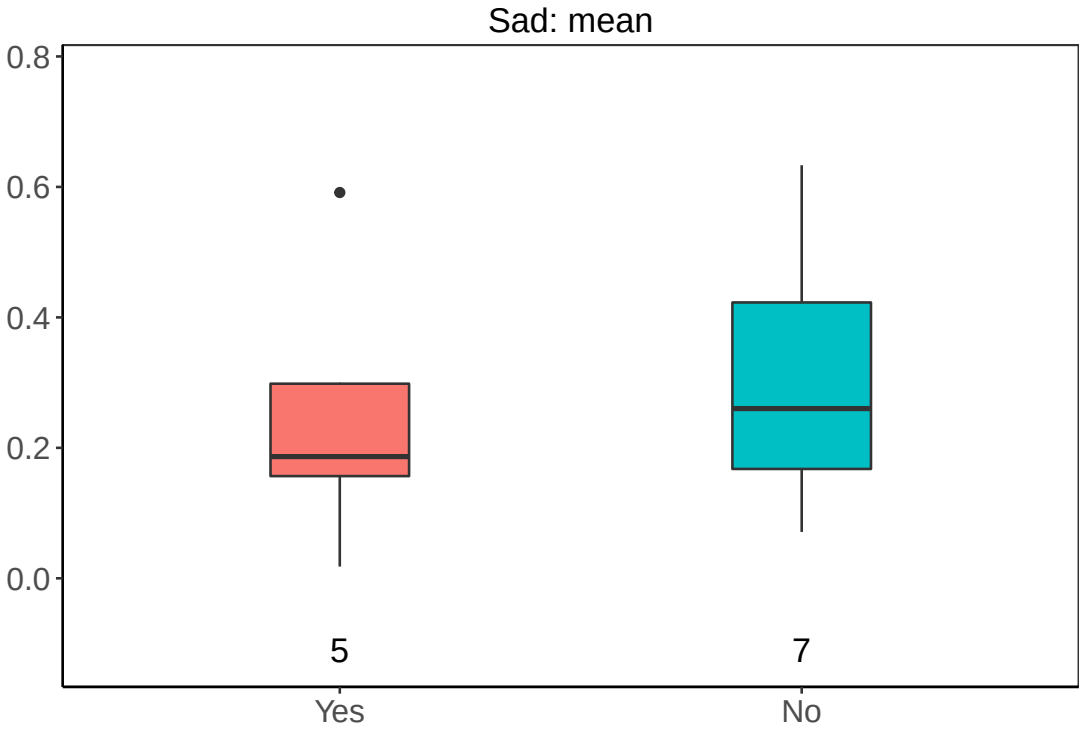

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 18, p-value = 1
## alternative hypothesis: true location shift is not equal to 0
```



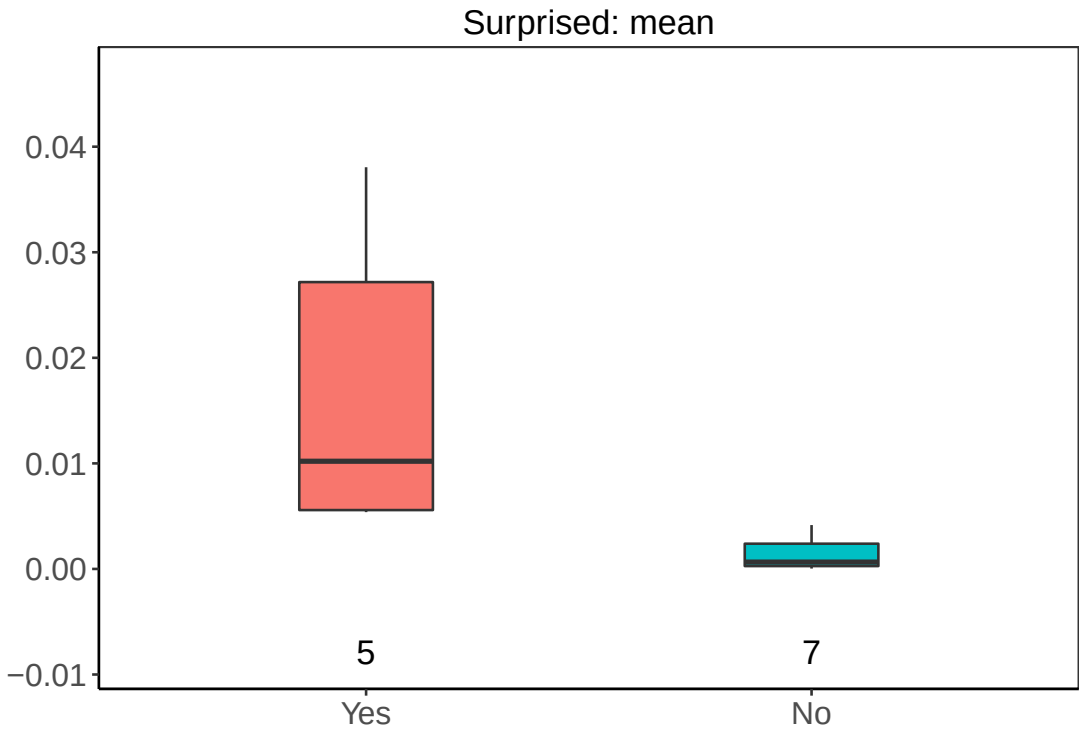

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 0.35883, df = 8.3289, p-value = 0.7286
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1.300103  1.783191
## sample estimates:
## mean of x mean of y
## -2.390522 -2.632066
```



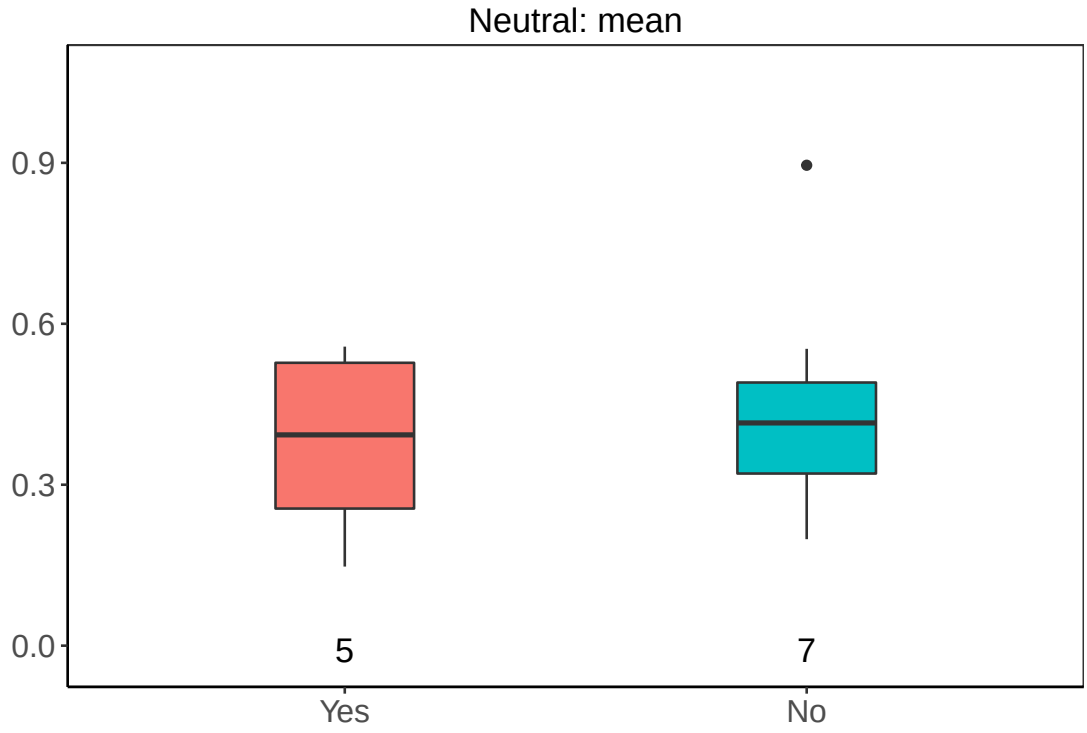

```
## [1] "-------- NOT NORMAL DISTRIBUTION"
## [1] "-------- LOG TRANSFORMED"
## [1] "-------- NOT NORMAL DISTRIBUTION AFTER LOG TRANSFORMATION"
## [1] "Performed Unsigned Rank Test"
##
##  Wilcoxon rank sum test
##
## data:  with_glass_data and without_glass_data
## W = 32, p-value = 0.01768
## alternative hypothesis: true location shift is not equal to 0
```




```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.45794, df = 8.4075, p-value = 0.6586
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3374804  0.2248648
## sample estimates:
## mean of x mean of y
## 0.2502038 0.3065116
```




```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = 2.405, df = 4.0734, p-value = 0.0728
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.002314829  0.033963808
## sample estimates:
##   mean of x   mean of y
## 0.017277385 0.001452895
```




```
## [1] "-------- BOTH NORMAL DISTRIBUTION"
## [1] "-------- Performed T-Test"
##
##  Welch Two Sample t-test
##
## data:  with_glass_data and without_glass_data
## t = -0.60726, df = 9.9151, p-value = 0.5573
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.3332708  0.1906479
## sample estimates:
## mean of x mean of y
## 0.3761168 0.4474283
```