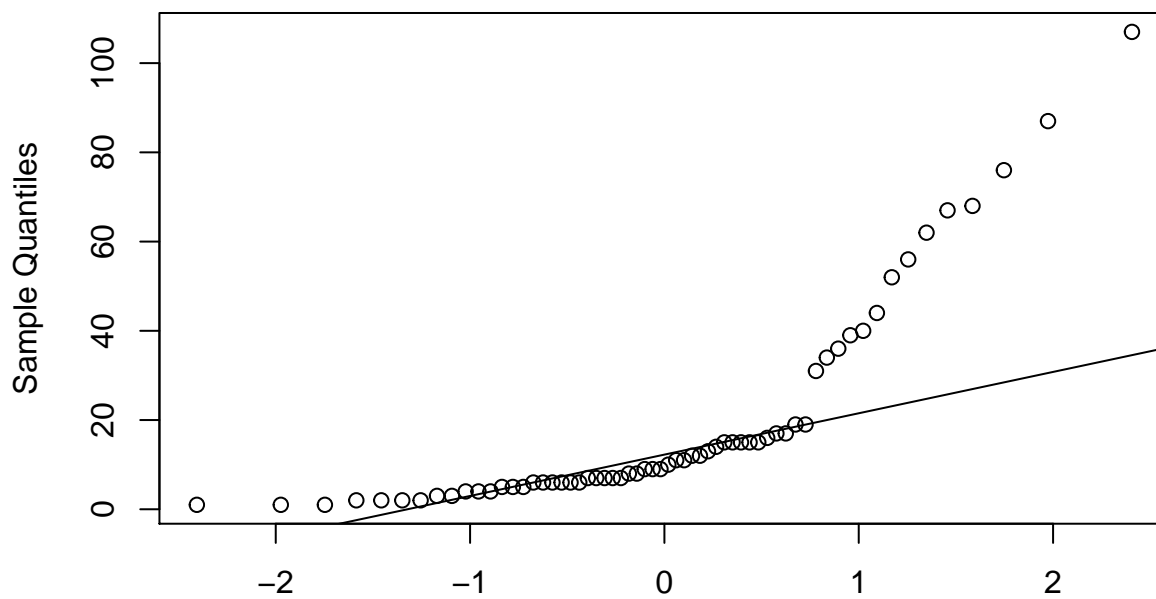


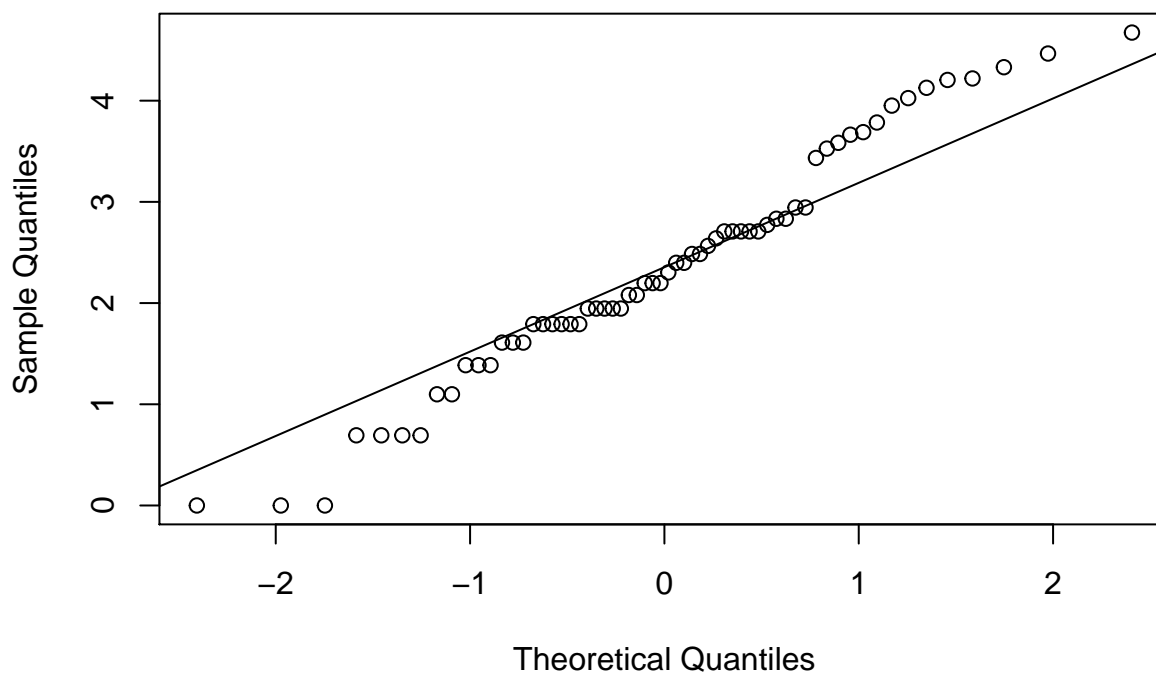
AnalysisReport

R Markdown

Normal Q-Q Plot



Normal Q-Q Plot



```

##              Df Sum Sq Mean Sq F value Pr(>F)
## condition    3   1.86   0.6207   0.466  0.707
## Residuals    58  77.23   1.3316
## 2 observations deleted due to missingness

##              Df Sum Sq Mean Sq F value Pr(>F)
## sigPlace      1    0.54   0.539   0.440 0.5099
## gesture        1    0.76   0.760   0.620 0.4342
## sigPlace:gesture 1    6.74   6.738   5.499 0.0225 *
## Residuals     58  71.06   1.225
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 2 observations deleted due to missingness

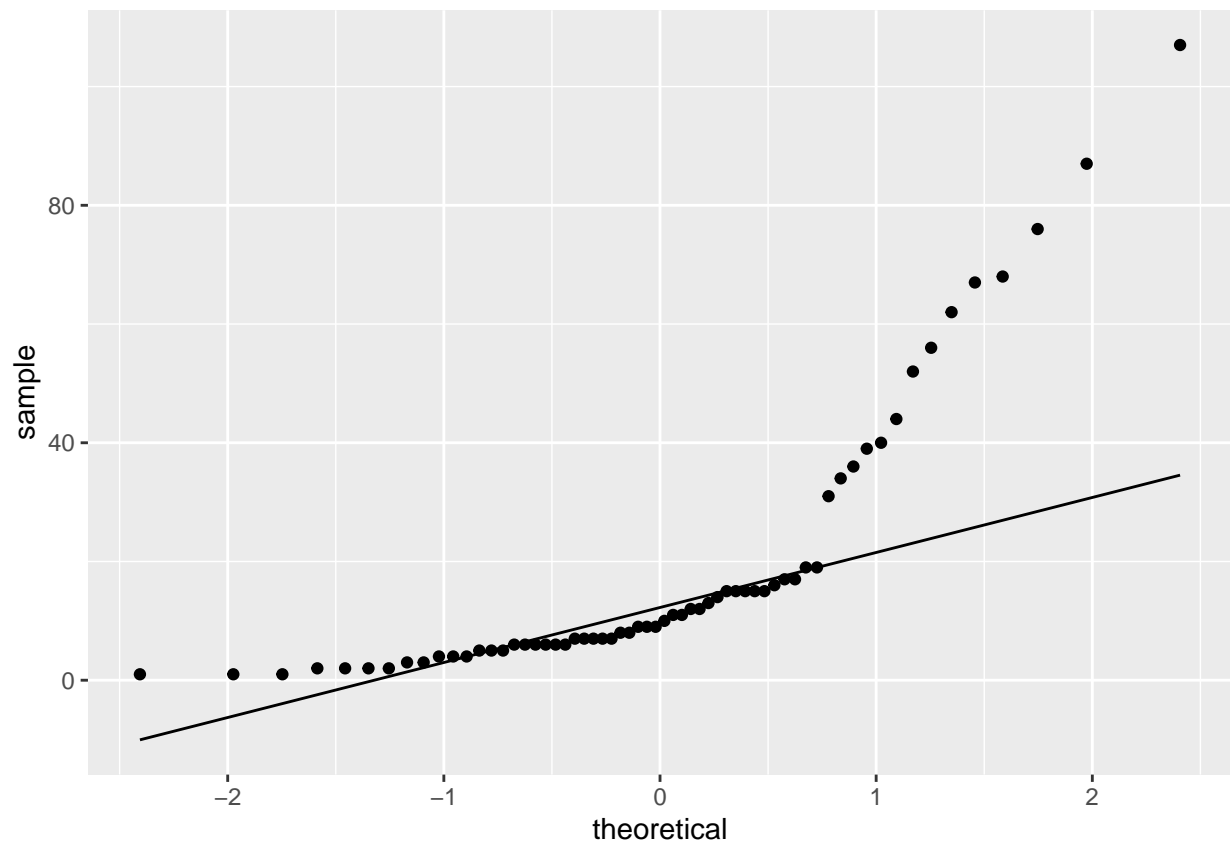
##              Df Sum Sq Mean Sq F value Pr(>F)
## sigPlace      1    0.54   0.539   0.485 0.4890
## gesture        1    0.76   0.760   0.685 0.4116
## androidOwner   1    5.04   5.039   4.540 0.0377 *
## sigPlace:gesture 1    7.09   7.088   6.386 0.0145 *
## sigPlace:androidOwner 1    0.27   0.269   0.242 0.6247
## gesture:androidOwner 1    0.00   0.004   0.003 0.9535
## sigPlace:gesture:androidOwner 1    5.46   5.463   4.922 0.0307 *
## Residuals     54  59.93   1.110
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 2 observations deleted due to missingness

##              Df Sum Sq Mean Sq F value Pr(>F)
## sigPlace      1    0.14   0.1350   0.109 0.743
## gesture        1    0.54   0.5447   0.440 0.511
## sigPlace:gesture 1    2.05   2.0528   1.657 0.204
## Residuals     47  58.23   1.2389
## 1 observation deleted due to missingness

##              Df Sum Sq Mean Sq F value Pr(>F)
## sigPlace      1    0.650   0.650   2.669 0.146357
## gesture        1    0.139   0.139   0.569 0.475205
## sigPlace:gesture 1  10.407  10.407  42.748 0.000322 ***
## Residuals      7    1.704   0.243
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 1 observation deleted due to missingness

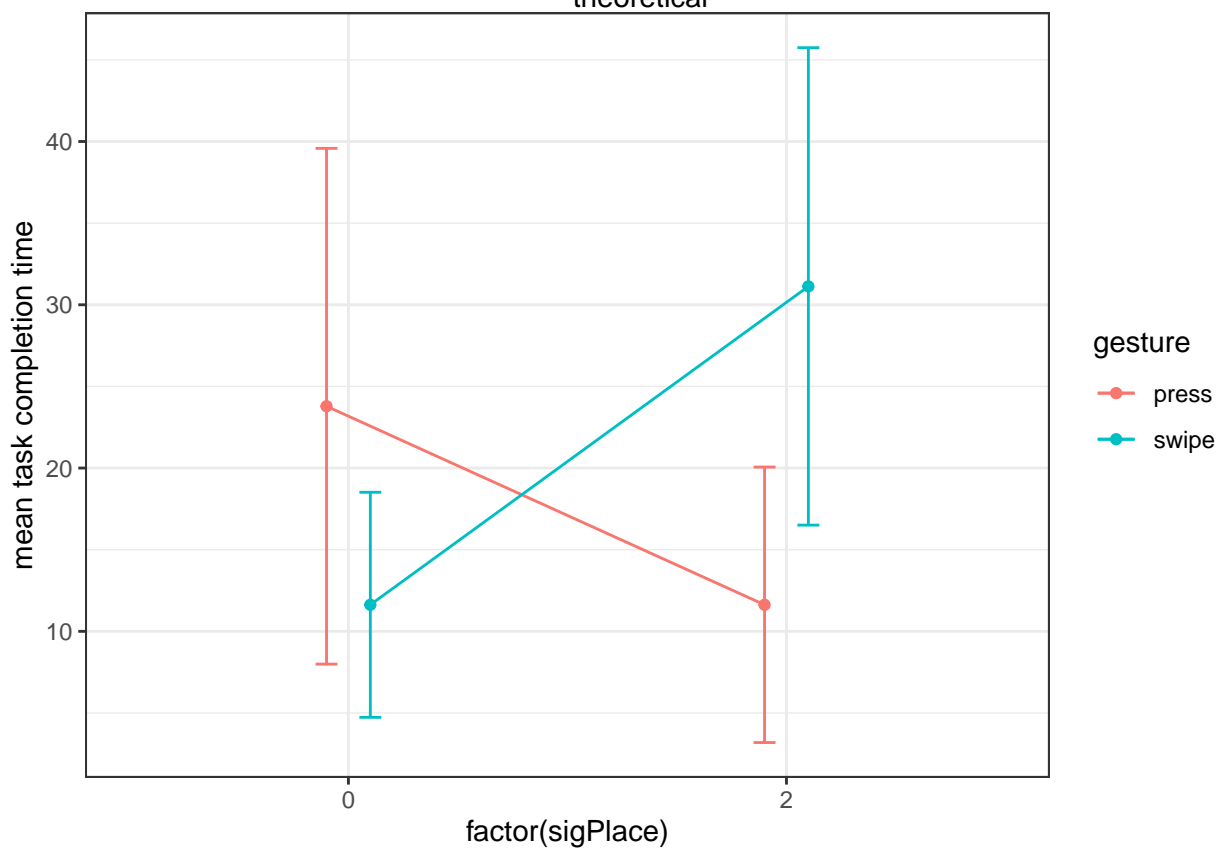
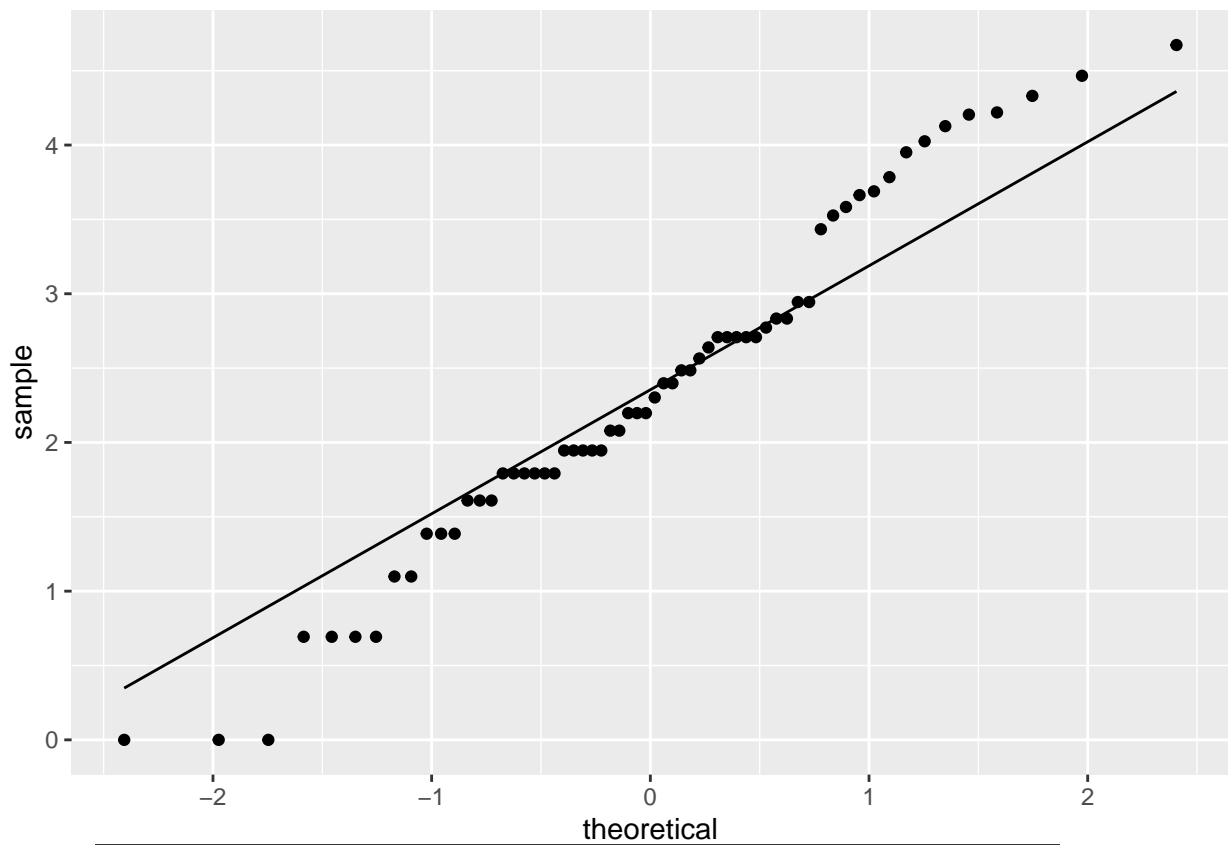
## Warning: Removed 2 rows containing non-finite values (stat_qq).
## Warning: Removed 2 rows containing non-finite values (stat_qq_line).

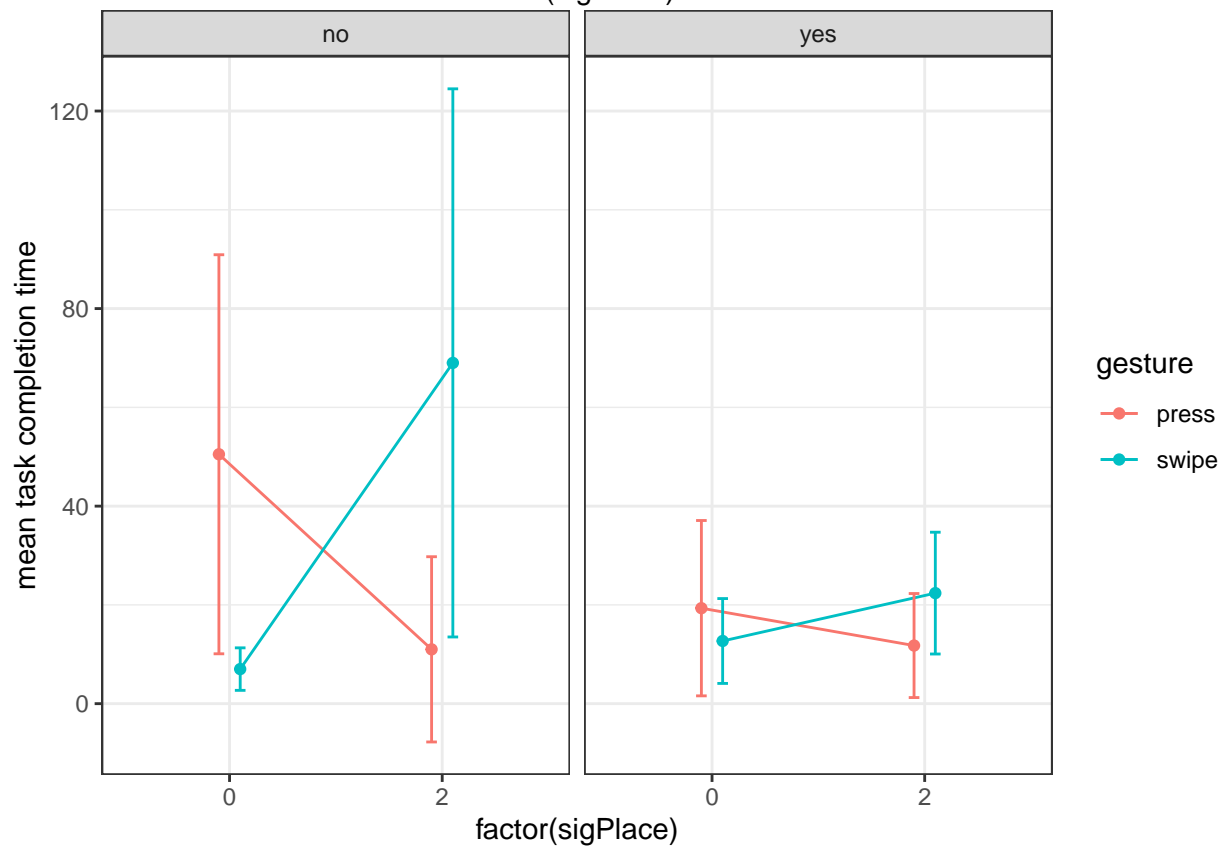
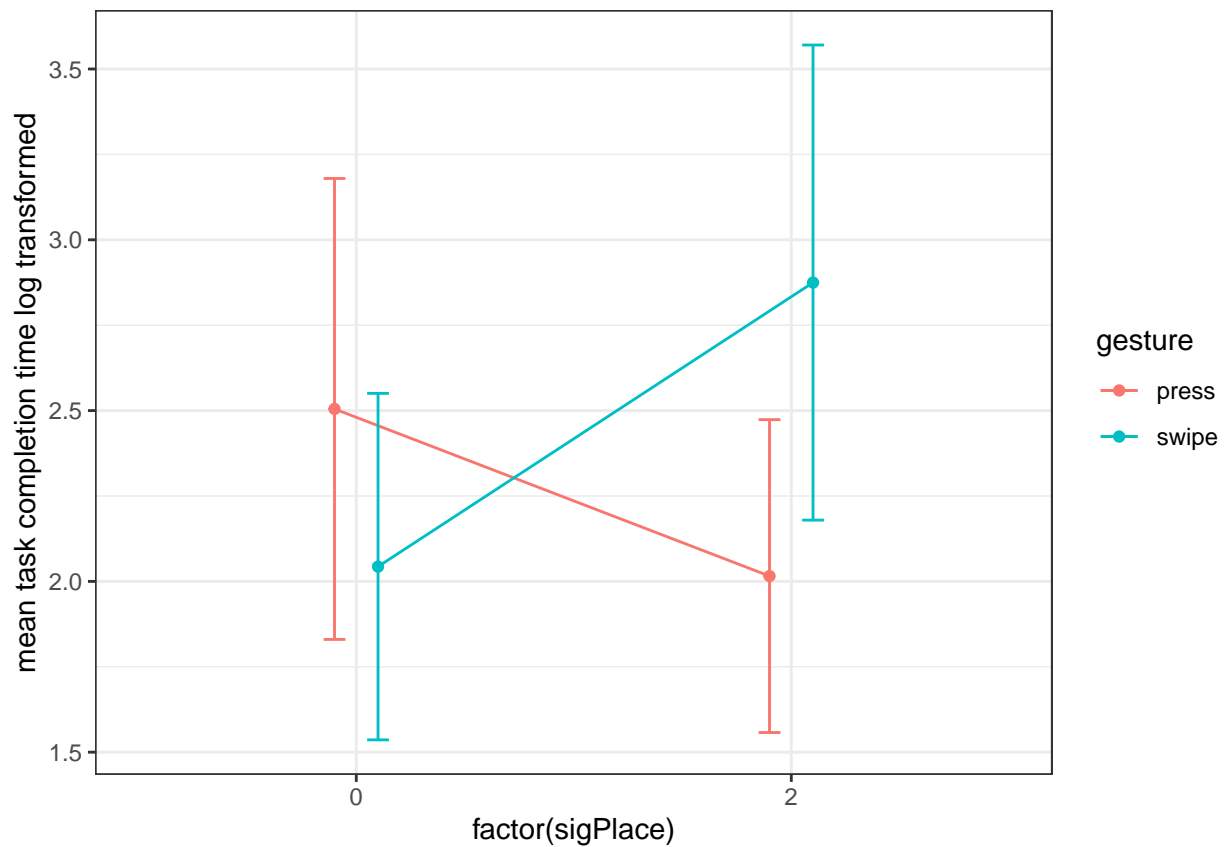
```

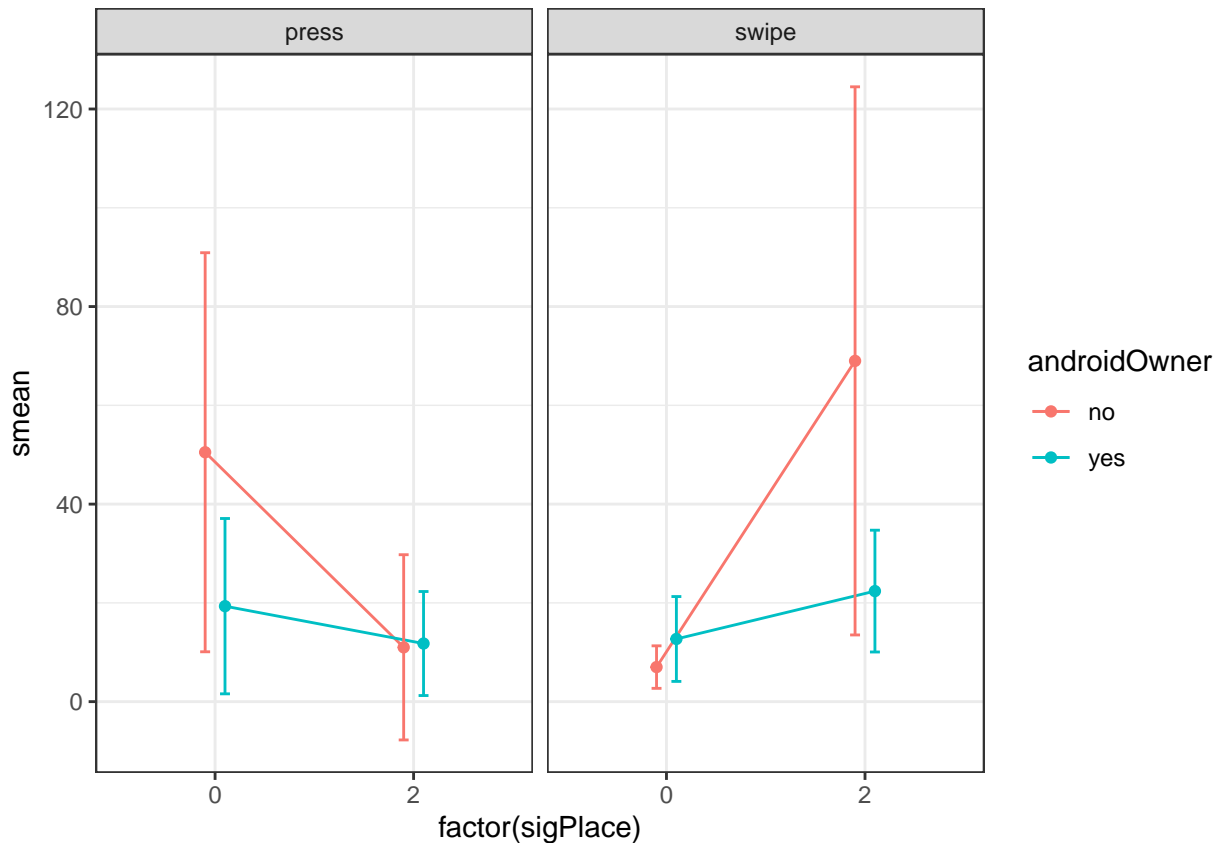


```
## Warning: Removed 2 rows containing non-finite values (stat_qq).
```

```
## Warning: Removed 2 rows containing non-finite values (stat_qq_line).
```





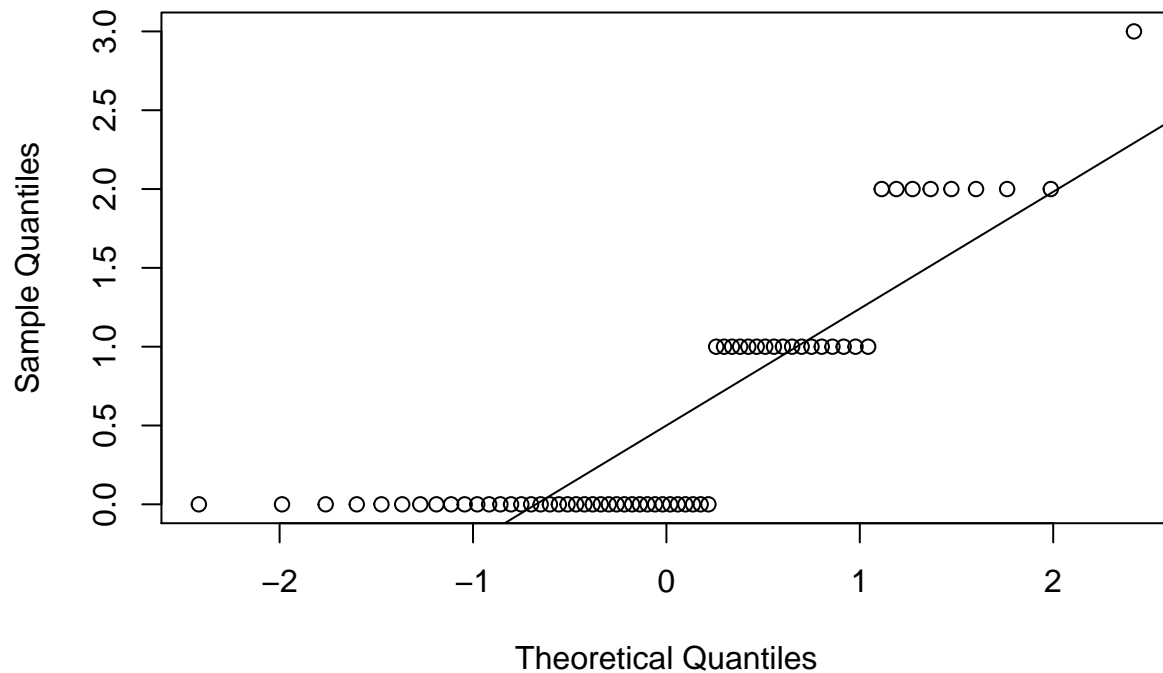


other gestures tried

```
##
## Call:
## glm(formula = effective ~ gesture * sigPlace, family = binomial,
##      data = dfDetails)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -2.35482   0.00008   0.35927   0.35927   0.64442
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)      1.4663     0.6405   2.289  0.0221 *
## gestureswipe     18.0997    2688.5033   0.007  0.9946
## sigPlace          0.6209     0.6076   1.022  0.3069
## gestureswipe:sigPlace -9.0499    1344.2519 -0.007  0.9946
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 35.093  on 63  degrees of freedom
## Residual deviance: 30.405  on 60  degrees of freedom
## AIC: 38.405
##
## Number of Fisher Scoring iterations: 18
```

```
## no differences on completion so what takes least different gestures guesses to success?
```

Normal Q-Q Plot



```
## ## not the best way ;-)- Anyway here's the anova
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## sigPlace    1  0.00   0.000    0.000 1.00000
## gesture      1  0.00   0.000    0.000 1.00000
## sigPlace:gesture 1  4.00   4.000    7.111 0.00983 **
## Residuals   60 33.75   0.562
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
## ## and here's a better way to predict number of tried gestures
```

```
##
```

```
## Call:
```

```
## glm(formula = numOfGesturesTriedB4 ~ sigPlace * gesture, family = "poisson",
##      data = dfDetails)
```

```
##
```

```
## Deviance Residuals:
```

```
##      Min       1Q   Median       3Q      Max
## -1.2748 -0.7906 -0.7906  0.2007  2.0125
```

```
##
```

```
## Coefficients:
```

```
##           Estimate Std. Error z value Pr(>|z|)
## (Intercept)   -0.2076    0.2774  -0.749   0.4541
## sigPlace       -0.4778    0.2631  -1.816   0.0694 .
## gestureswipe   -0.9555    0.5262  -1.816   0.0694 .
## sigPlace:gestureswipe  0.9555    0.3721   2.568   0.0102 *
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## (Dispersion parameter for poisson family taken to be 1)
##
## Null deviance: 70.199 on 63 degrees of freedom
## Residual deviance: 62.833 on 60 degrees of freedom
## AIC: 128.73
##
## Number of Fisher Scoring iterations: 6
```

