

# Hypothese 3

*Silas Nöttling & Maximilian Kuttner*

*14.4.2020*

## Deskriptive Statistik - Einzelflüge

```
## $`Flug: Amsterdam-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##               Preis      Device
## -----
##      N              40        40
##      Missing          0         0
##      Mean            97.8
##      Median           88.0
##      Standard deviation 15.3
##      Minimum          87.0
##      Maximum          141
## -----
##
##
## $`Flug: Berlin-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##               Preis      Device
## -----
##      N              40        40
##      Missing          0         0
##      Mean            92.8
##      Median           88.0
##      Standard deviation 12.8
##      Minimum          87.0
##      Maximum          123
## -----
##
##
## $`Flug: Lissabon-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##               Preis      Device
## -----
##      N              40        40
```

```

##      Missing              0          0
##      Mean                257
##      Median              253
##      Standard deviation   8.22
##      Minimum             252
##      Maximum             273
## -----
##
##
## $`Flug: London-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean           144
##      Median          150
##      Standard deviation 37.8
##      Minimum         105
##      Maximum         204
## -----
##
##
## $`Flug: Bangkok-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean           800
##      Median          810
##      Standard deviation 79.6
##      Minimum         666
##      Maximum         945
## -----
##
##
## $`Flug: New York-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40

```

```

##      Missing              0          0
##      Mean                593
##      Median              553
##      Standard deviation   105
##      Minimum             473
##      Maximum             738
## -----
##
##
## $`Flug: Tokio-AUA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean            850
##      Median           823
##      Standard deviation 116
##      Minimum          747
##      Maximum         1169
## -----
##
##
## $`Flug: Amsterdam-KLM`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean            144
##      Median           158
##      Standard deviation 30.5
##      Minimum          99.0
##      Maximum          180
## -----
##
##
## $`Flug: Berlin-EZY`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40

```

```

##      Missing              0          0
##      Mean                64.3
##      Median              64.5
##      Standard deviation   5.87
##      Minimum             50.0
##      Maximum             71.0
## -----
##
##
## $`Flug: Lissabon-LDM`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40      40
##      Missing        0      0
##      Mean           104
##      Median          106
##      Standard deviation 19.2
##      Minimum         66.0
##      Maximum         136
## -----
##
##
## $`Flug: London-BAW`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40      40
##      Missing        0      0
##      Mean           111
##      Median          112
##      Standard deviation 3.05
##      Minimum         108
##      Maximum         119
## -----
##
##
## $`Flug: Bangkok-THA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40      40

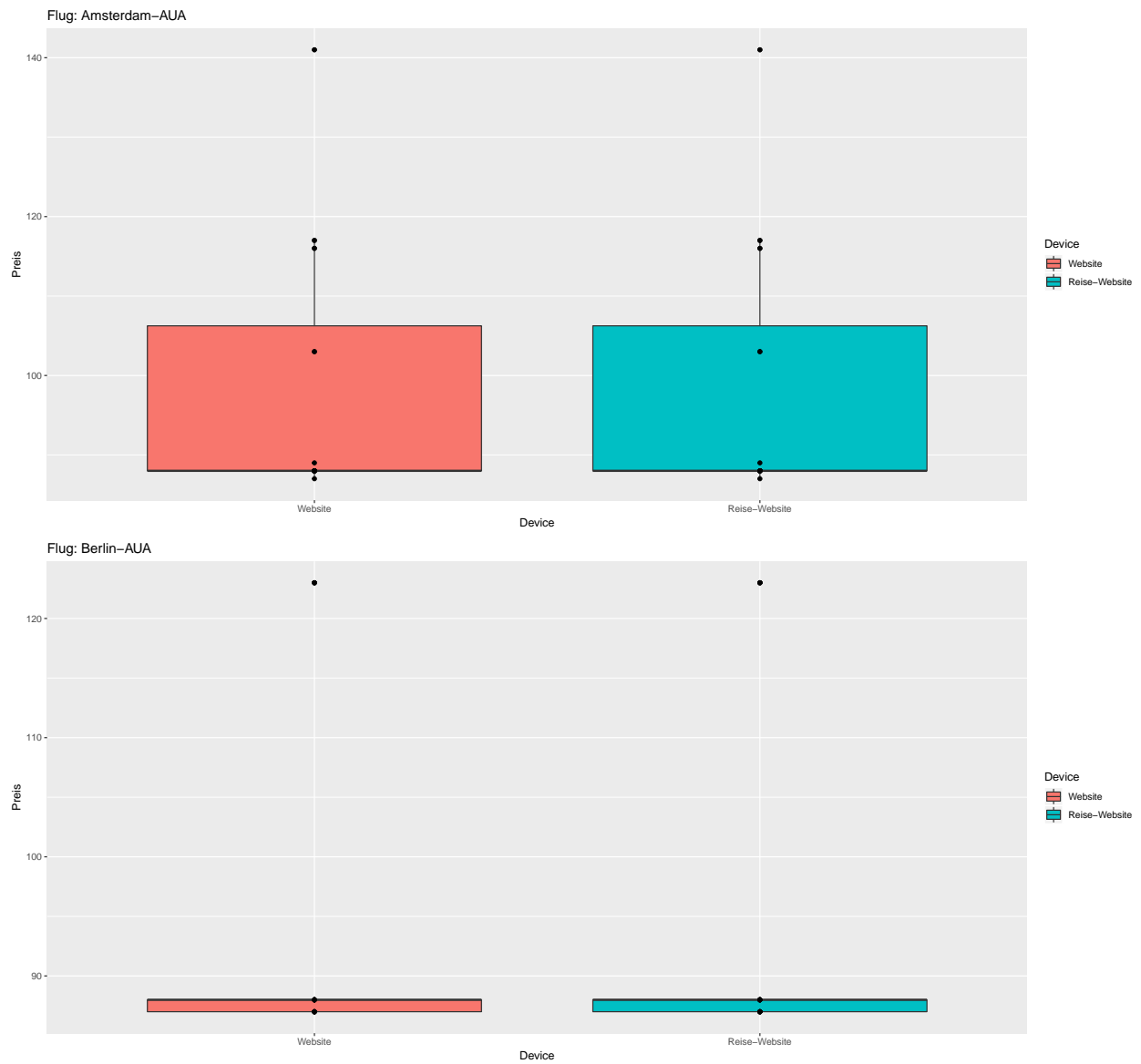
```

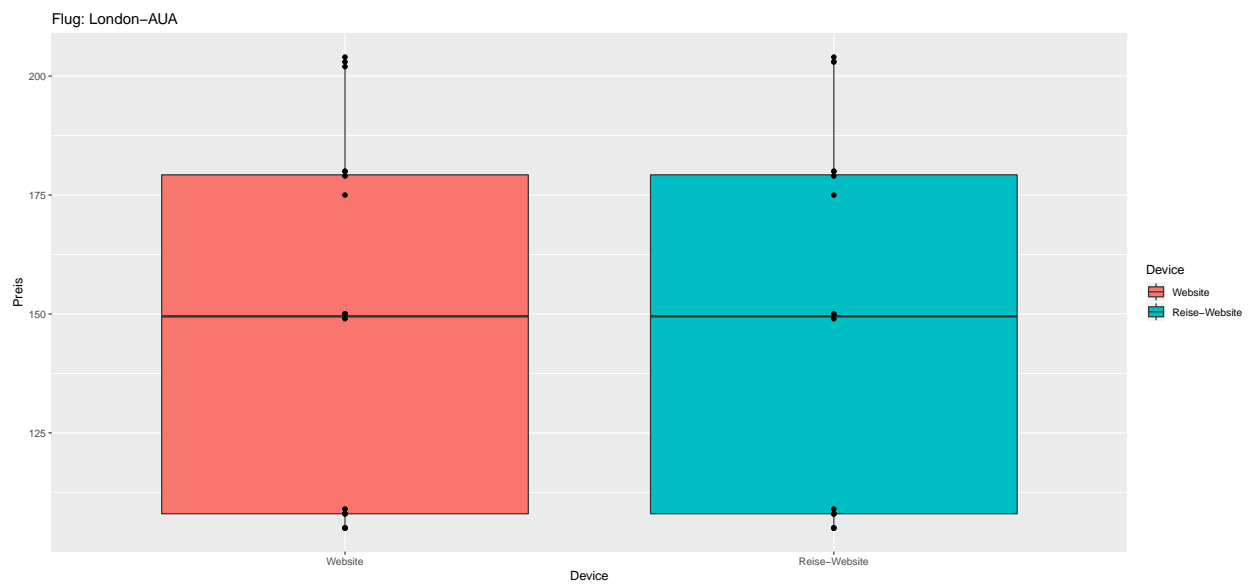
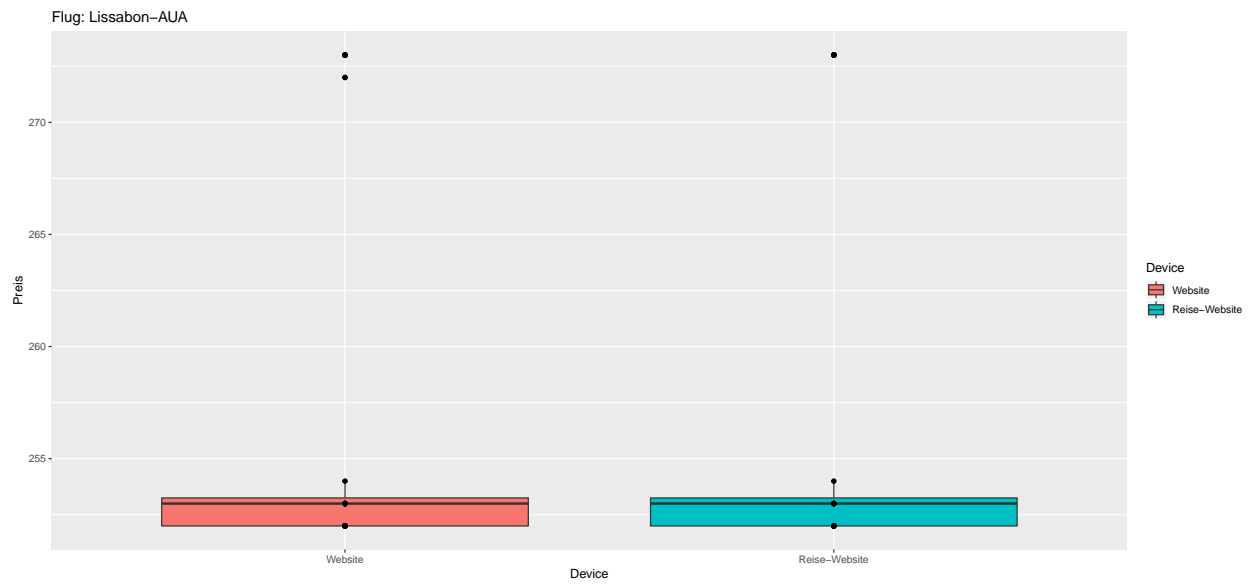
```

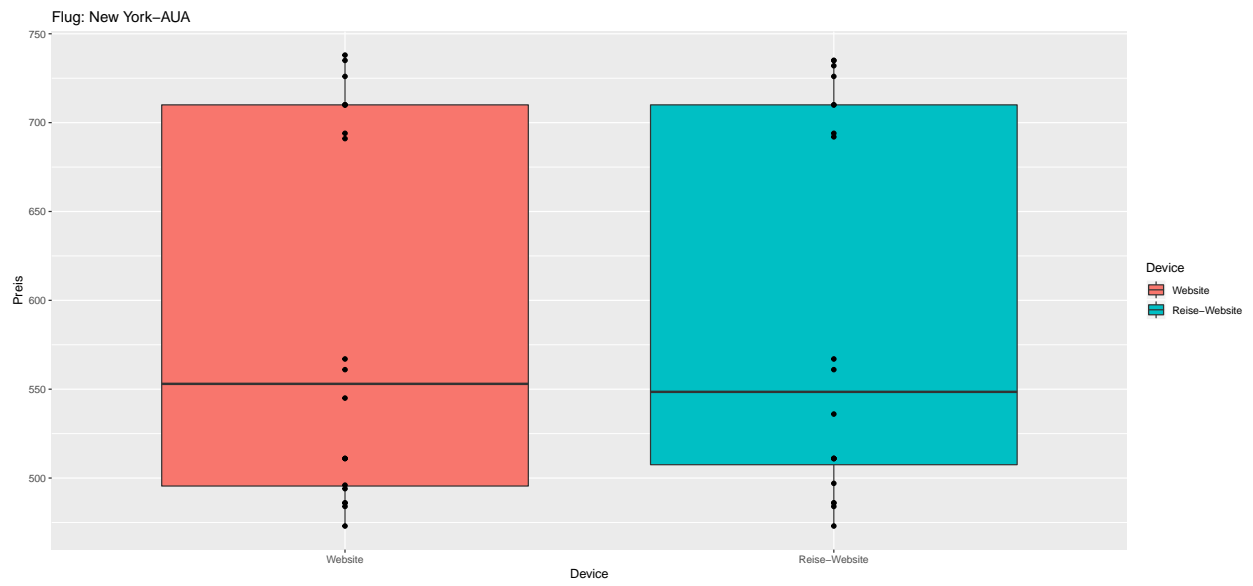
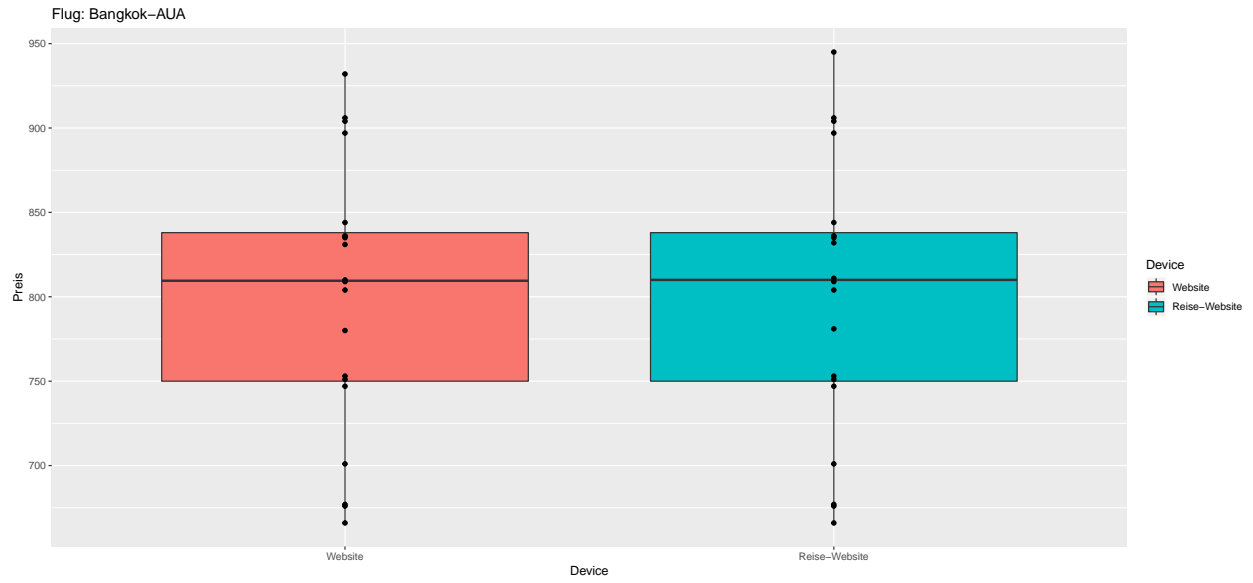
##      Missing              0          0
##      Mean                979
##      Median              954
##      Standard deviation   88.8
##      Minimum             864
##      Maximum             1193
## -----
##
##
## $`Flug: New York-UAL`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean           620
##      Median          640
##      Standard deviation 130
##      Minimum          430
##      Maximum          767
## -----
##
##
## $`Flug: Tokio-ANA`
##
## DESCRIPTIVES
##
## Descriptives
## -----
##              Preis      Device
## -----
##      N              40        40
##      Missing         0         0
##      Mean           687
##      Median          655
##      Standard deviation 62.8
##      Minimum          648
##      Maximum          894
## -----

```

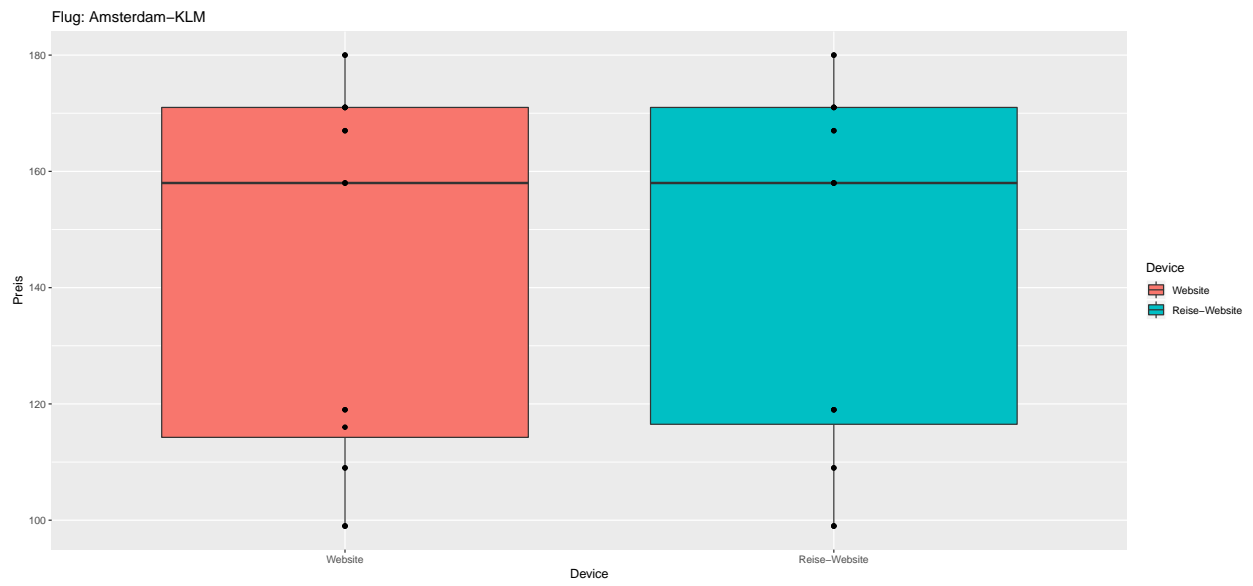
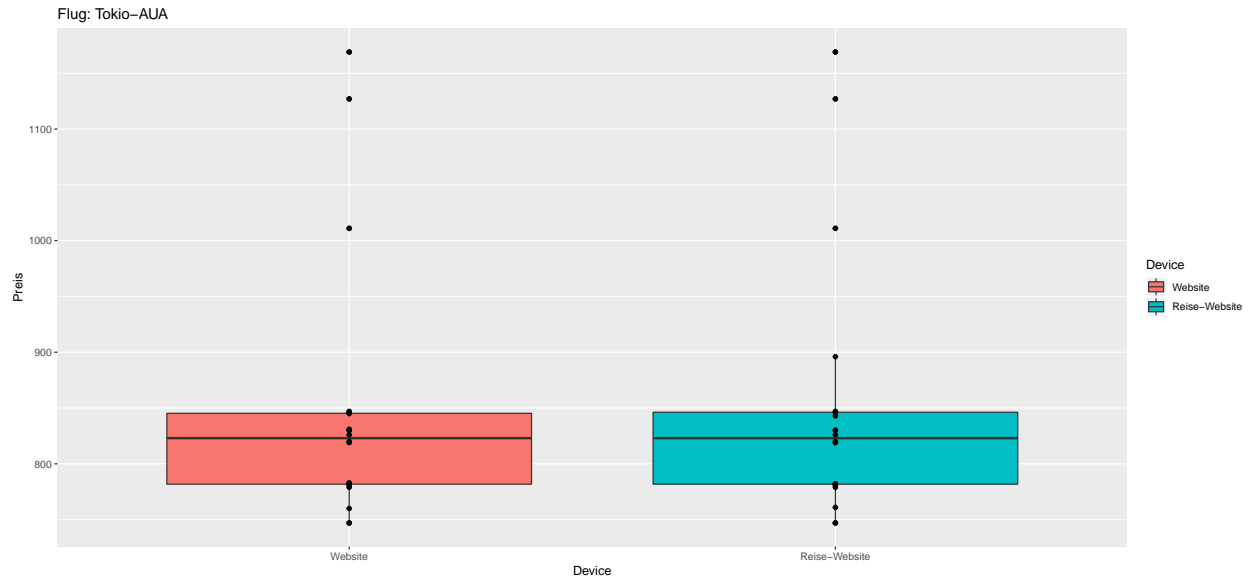
## Box-Plot - Einzelflüge

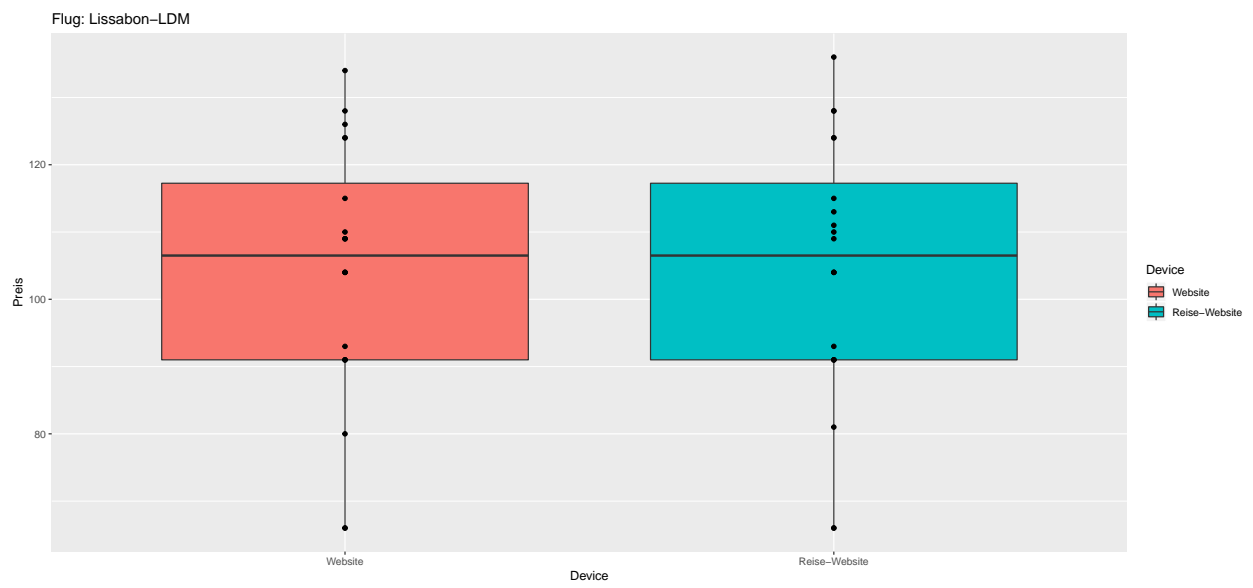
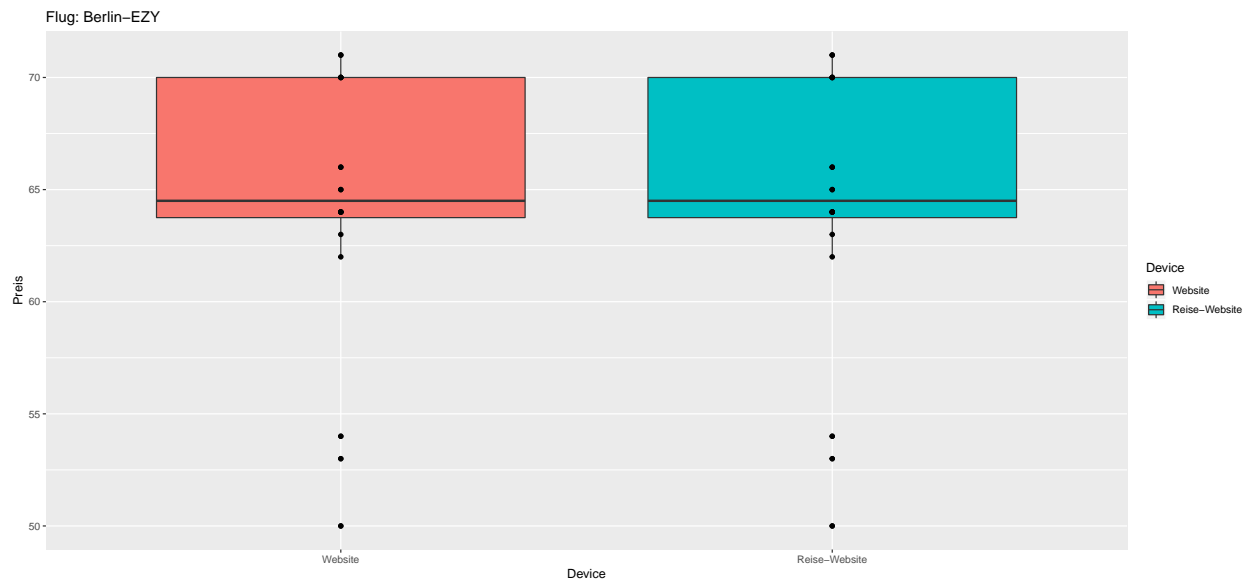


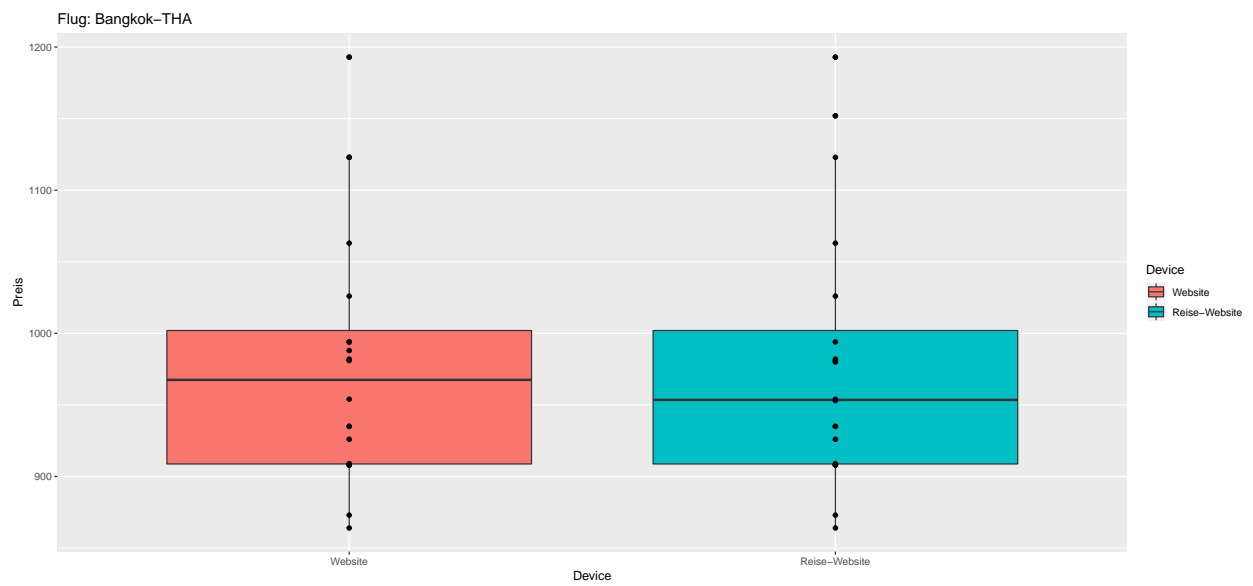
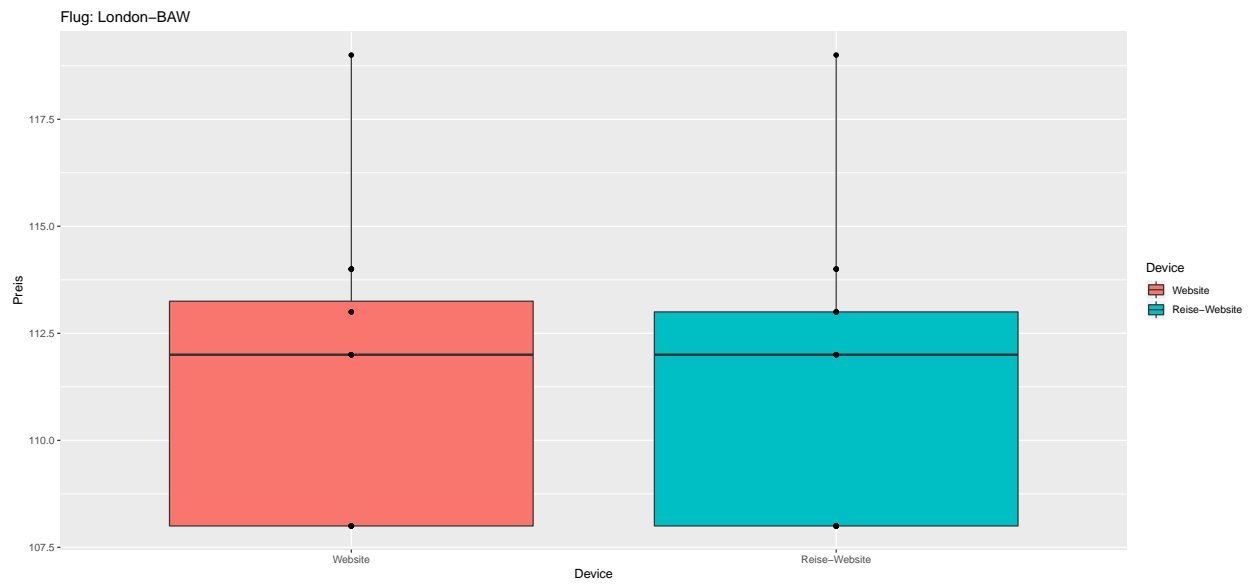


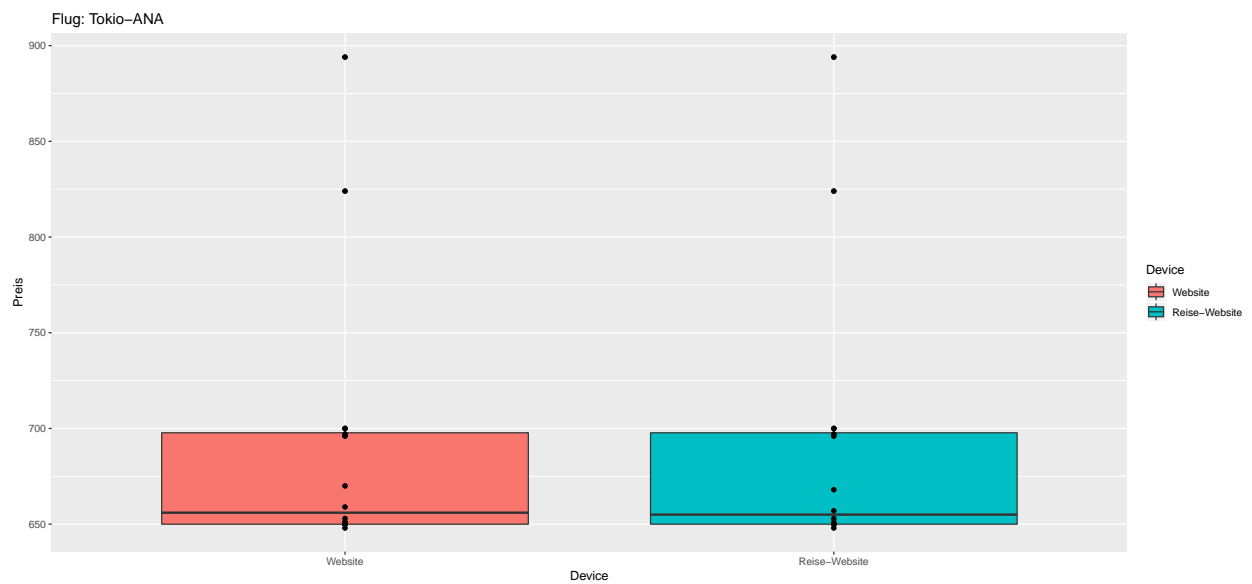
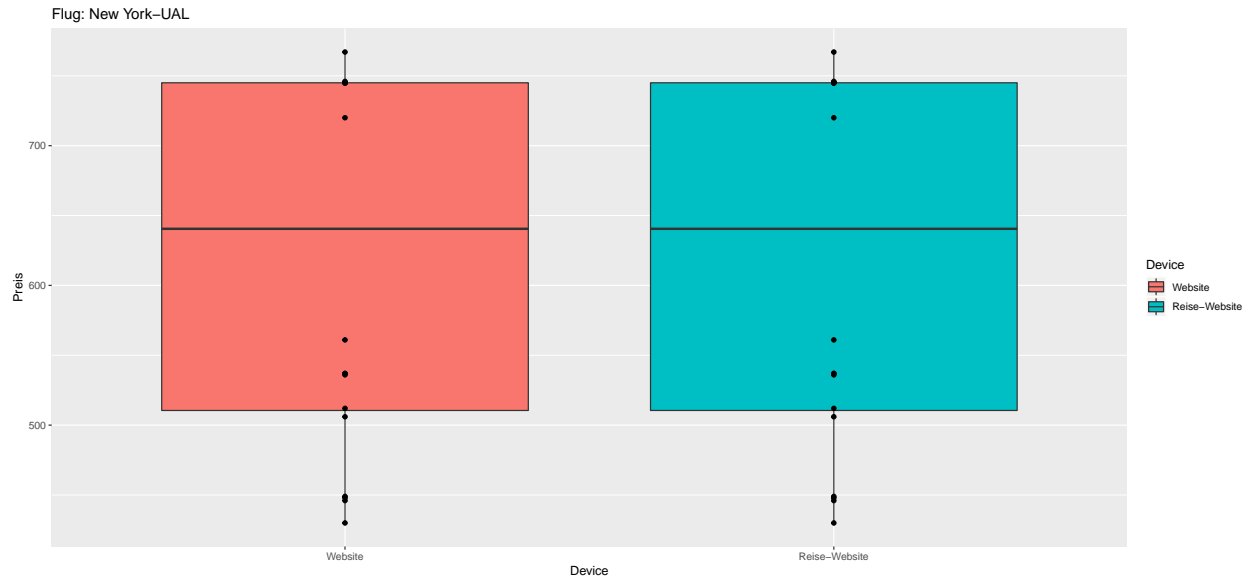












## ANOVA

```
## $`Flug: Amsterdam-AUA`
```

```
##
```

```
## ANOVA
```

```
##
```

```
## ANOVA
```

```
##
```

	Sum of Squares	df	Mean Square	F	p
Device	0.00	1	0.00	1.18e-29	1.000
Residuals	9141.10	38	240.56		

```
##
```

```
##
```

```
## ESTIMATED MARGINAL MEANS
```

```

##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      97.9    3.47     90.8     105
##      Reise-Website 97.9    3.47     90.8     105
## -----
##
##
## $`Flug: Berlin-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              0.00      1          0.00    1.26e-29    1.000
##      Residuals        6425.10     38         169.08
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      92.9    2.91     87.0     98.7
##      Reise-Website 92.9    2.91     87.0     98.7
## -----
##
##
## $`Flug: Lissabon-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              0.0250      1          0.0250    3.60e-4    0.985
##      Residuals        2636.7500     38         69.3882
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE

```

```

##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      257    1.86      253      260
##      Reise-Website 257    1.86      253      260
## -----
##
##
## $`Flug: London-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              0.0250     1          0.0250    1.70e-5    0.997
##      Residuals        55813.7500    38         1468.7829
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      144    8.57      127      161
##      Reise-Website 144    8.57      127      162
## -----
##
##
## $`Flug: Bangkok-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              6.40     1          6.40    9.83e-4    0.975
##      Residuals       247392.70    38         6510.33
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device

```

```

## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      800    18.0      763      836
##      Reise-Website  801    18.0      764      837
## -----
##
##
## $`Flug: New York-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              21.0      1          21.0    0.00187    0.966
##      Residuals        427247.8    38        11243.4
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper
## -----
##      Website      592    23.7      544      640
##      Reise-Website  593    23.7      545      641
## -----
##
##
## $`Flug: Tokio-AUA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##      Device              99.2      1          99.2    0.00720    0.933
##      Residuals    523463.5    38        13775.4
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##      Device      Mean    SE      Lower    Upper

```

```

## -----
##   Website           848    26.2    795    901
##   Reise-Website     851    26.2    798    904
## -----
##
##
## $`Flug: Amsterdam-KLM`
##
## ANOVA
##
## ANOVA
## -----
##           Sum of Squares    df    Mean Square    F        p
## -----
##   Device           2.50      1        2.50    0.00263    0.959
##   Residuals       36184.60    38        952.23
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##   Device      Mean    SE    Lower    Upper
## -----
##   Website      145    6.90    131    159
##   Reise-Website 144    6.90    130    158
## -----
##
##
## $`Flug: Berlin-EZY`
##
## ANOVA
##
## ANOVA
## -----
##           Sum of Squares    df    Mean Square    F        p
## -----
##   Device           0.00      1        0.00    3.79e-29    1.000
##   Residuals       1344.40    38        35.38
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##   Device      Mean    SE    Lower    Upper
## -----
##   Website      64.3    1.33    61.6    67.0

```



```

##   Reise-Website    64.3    1.33    61.6    67.0
## -----
##
##
## $`Flug: Lissabon-LDM`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##   Device              3.02      1          3.02    0.00798    0.929
##   Residuals          14412.75    38          379.28
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##   Device      Mean    SE      Lower    Upper
## -----
##   Website      104    4.35     95.1     113
##   Reise-Website 104    4.35     95.6     113
## -----
##
##
## $`Flug: London-BAW`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
##   Device              0.0250      1          0.0250    0.00262    0.959
##   Residuals          362.9500    38          9.5513
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
##   Device      Mean    SE      Lower    Upper
## -----
##   Website      111    0.691     110     113
##   Reise-Website 111    0.691     110     113
## -----
##

```

```

##
##
## $`Flug: Bangkok-THA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F        p
## -----
## Device              10.0         1         10.0    0.00124    0.972
## Residuals          307287.1       38         8086.5
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
## Device      Mean    SE      Lower    Upper
## -----
## Website      979    20.1     939     1020
## Reise-Website 978    20.1     938     1019
## -----
##
##
## $`Flug: New York-UAL`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F        p
## -----
## Device              0.00         1         0.00    4.64e-30    1.000
## Residuals          662062.00       38        17422.68
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
## Device      Mean    SE      Lower    Upper
## -----
## Website      620    29.5     561     680
## Reise-Website 620    29.5     561     680
## -----
##
##

```

```

## $`Flug: Tokio-ANA`
##
## ANOVA
##
## ANOVA
## -----
##              Sum of Squares    df    Mean Square    F          p
## -----
## Device              0.625      1          0.625    1.54e-4    0.990
## Residuals        154038.150    38        4053.636
## -----
##
##
## ESTIMATED MARGINAL MEANS
##
## DEVICE
##
## Estimated Marginal Means - Device
## -----
## Device      Mean    SE      Lower    Upper
## -----
## Website      687    14.2    658      716
## Reise-Website 687    14.2    658      716
## -----

```