## Hypothese5

Silas Nöttling 19 4 2020

## Deskriptive Statistik - Einzelflüge

```
## $`Flug: Amsterdam-AUA`
##
   DESCRIPTIVES
##
##
##
  Descriptives
##
##
                         Preis Cookies
##
                                     560
##
                            560
##
     Missing
                            0
                                       0
##
     Mean
                            396
##
     Median
                            228
##
     Standard deviation
                            332
##
     Minimum
                           50.0
##
     Maximum
                          1193
##
##
##
   FREQUENCIES
##
##
##
   Frequencies of Cookies
##
             Counts % of Total Cumulative %
##
##
                280 50.0
##
     Zugelassen
                                                     50.0
                         280
                                     50.0
                                                   100.0
##
     Zurueckgesetzt
##
##
##
  $`Flug: Berlin-AUA`
##
##
   DESCRIPTIVES
##
##
##
  Descriptives
##
##
                          Preis
                                 Cookies
##
##
                            560
                                       560
##
     Missing
                            0
                                         0
                            396
##
     Mean
##
     Median
                            228
##
     Standard deviation
                           332
##
     Minimum
                           50.0
##
     {\tt Maximum}
                           1193
```

```
##
##
  FREQUENCIES
##
##
## Frequencies of Cookies
##
  ______
              Counts % of Total Cumulative %
##
##
    Zugelassen
                      280
                                50.0
                                             50.0
                                            100.0
##
    Zurueckgesetzt
                      280
                                50.0
##
##
##
## $`Flug: Lissabon-AUA`
##
##
  DESCRIPTIVES
##
##
  Descriptives
##
##
                      Preis
                             Cookies
##
   _____
##
                        560
                                 560
##
                                   0
    Missing
                         0
##
    Mean
                        396
##
    Median
                        228
##
    Standard deviation
                       332
##
    Minimum
                       50.0
##
    Maximum
                       1193
##
##
##
##
   FREQUENCIES
##
##
   Frequencies of Cookies
##
##
              Counts % of Total Cumulative %
    Levels
##
##
    Zugelassen
                      280
                                50.0
                                             50.0
                                50.0
##
    Zurueckgesetzt
                      280
                                             100.0
##
##
##
## $`Flug: London-AUA`
##
##
  DESCRIPTIVES
##
##
   Descriptives
##
   _____
##
                      Preis Cookies
##
##
                        560
                                 560
##
    Missing
                         0
                                  0
                        396
##
    Mean
##
    Median
                        228
```

```
Standard deviation
##
##
     Minimum
                          50.0
##
     Maximum
                         1193
##
##
##
##
   FREQUENCIES
##
##
   Frequencies of Cookies
##
##
     Levels
                    Counts % of Total Cumulative %
##
##
                        280
     Zugelassen
                                    50.0
                                                   50.0
     Zurueckgesetzt 280
                                    50.0
##
                                                  100.0
##
##
##
  $`Flug: Bangkok-AUA`
##
   DESCRIPTIVES
##
##
##
  Descriptives
##
##
                         Preis
                                 Cookies
##
                           560
##
                                     560
##
     Missing
                           0
                                       0
##
     Mean
                           396
##
     Median
                           228
##
     Standard deviation
                          332
##
     Minimum
                          50.0
##
     Maximum
                         1193
##
##
##
   FREQUENCIES
##
##
##
   Frequencies of Cookies
##
   ______
##
                              % of Total
                     Counts
                                           Cumulative %
##
##
     Zugelassen
                       280
                                   50.0
                                                  50.0
                                50.0
     Zurueckgesetzt 280
##
                                                100.0
##
##
##
## $`Flug: New York-AUA`
##
   DESCRIPTIVES
##
##
##
  Descriptives
##
##
                         Preis Cookies
##
```

```
##
                         560
                                  560
##
     Missing
                         0
                                     0
                         396
##
     Mean
##
     Median
                         228
##
     Standard deviation
                         332
##
     Minimum
                        50.0
##
     Maximum
                        1193
##
##
##
   FREQUENCIES
##
##
##
   Frequencies of Cookies
##
##
               Counts % of Total Cumulative %
##
##
                       280
                                  50.0
                                                50.0
     Zugelassen
                     280
                                 50.0
                                              100.0
##
     Zurueckgesetzt
##
##
##
## $`Flug: Tokio-AUA`
##
##
  DESCRIPTIVES
##
##
  Descriptives
##
##
                       Preis Cookies
##
##
                         560
                                   560
                                    0
##
     Missing
                         0
##
     Mean
                         396
##
     Median
                         228
##
     Standard deviation
                         332
##
     Minimum
                        50.0
##
     Maximum
                        1193
##
   ______
##
##
  FREQUENCIES
##
##
##
  Frequencies of Cookies
##
   ______
##
   Levels Counts % of Total Cumulative %
##
##
                       280
                                 50.0
                                              50.0
     Zugelassen
##
                       280
                                  50.0
     Zurueckgesetzt
                                               100.0
##
##
##
## $`Flug: Amsterdam-KLM`
##
## DESCRIPTIVES
```

##

4

```
Descriptives
##
   _____
##
                      Preis
##
##
                        560
                                 560
##
    Missing
                        0
                                   0
##
    Mean
                        396
##
    Median
                        228
##
    Standard deviation
                       332
##
    Minimum
                       50.0
##
    {\tt Maximum}
                      1193
##
##
##
##
   FREQUENCIES
##
##
   Frequencies of Cookies
##
   ______
##
                  Counts % of Total Cumulative %
   _____
##
##
    Zugelassen
                     280
                                50.0
                                             50.0
    Zurueckgesetzt 280
##
                               50.0
##
##
##
## $`Flug: Berlin-EZY`
##
##
  DESCRIPTIVES
##
##
   Descriptives
##
##
                      Preis
                             Cookies
##
##
    N
                        560
                                560
##
    Missing
                        0
                                  0
##
    Mean
                        396
    Median
##
                        228
##
    Standard deviation
                       332
##
    Minimum
                       50.0
##
                       1193
    Maximum
##
##
##
   FREQUENCIES
##
##
   Frequencies of Cookies
##
##
                   Counts % of Total Cumulative %
##
                      280
##
     Zugelassen
                                50.0
    Zurueckgesetzt
##
                     280
                               50.0
                                           100.0
##
```

## ##

5

```
## $`Flug: Lissabon-LDM`
##
  DESCRIPTIVES
##
##
## Descriptives
##
                       Preis Cookies
##
   _____
##
                          560
                                  560
##
                          0
                                     0
     Missing
##
     Mean
                          396
##
     Median
                          228
     Standard deviation
##
                         332
##
     Minimum
                         50.0
##
     Maximum
                       1193
##
##
##
  FREQUENCIES
##
##
## Frequencies of Cookies
##
##
                           % of Total Cumulative %
                 Counts
##
##
                      280
     Zugelassen
                                  50.0
                                                50.0
                                              100.0
##
     Zurueckgesetzt
                      280
                                  50.0
##
##
##
## $`Flug: London-BAW`
##
## DESCRIPTIVES
##
##
  Descriptives
##
##
                       Preis Cookies
##
   _____
##
                          560
                                   560
##
     Missing
                          0
                                     0
##
     Mean
                         396
##
     Median
                         228
     Median
Standard deviation
##
                         332
##
     Minimum
                         50.0
##
     Maximum
                        1193
##
##
##
   FREQUENCIES
##
##
   Frequencies of Cookies
##
##
                   Counts % of Total Cumulative %
##
```

280

##

Zugelassen

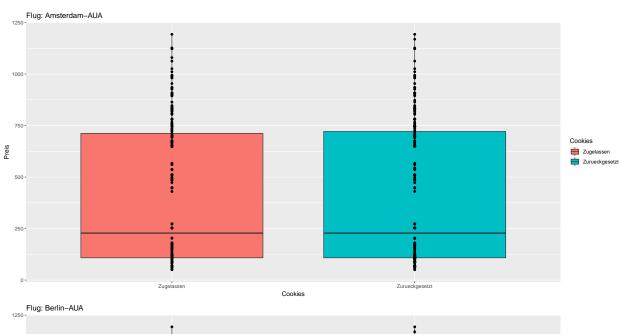
50.0

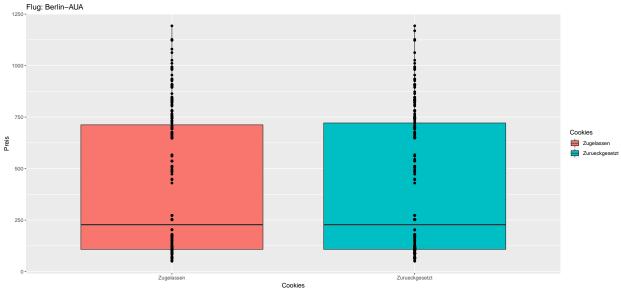
50.0

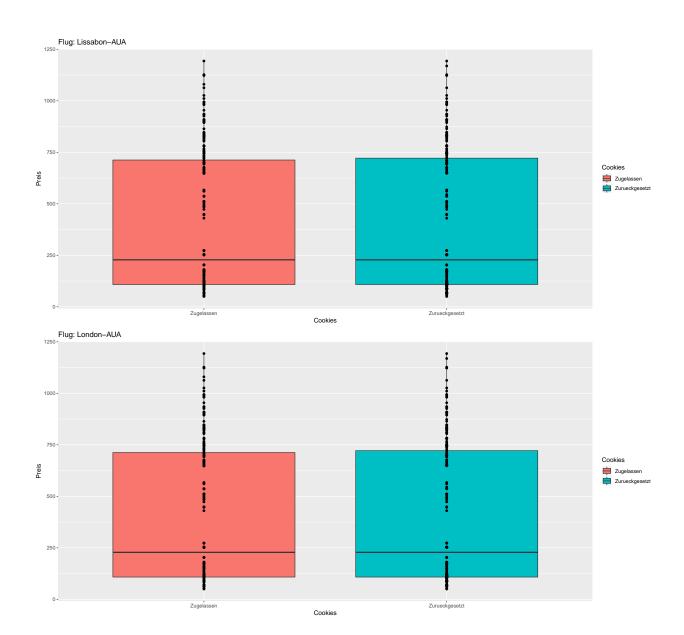
# Zurueckgesetzt #	280	50.0	100.0
‡			
‡ 4. ΦΣΕΙ ΒΙΙ ΤΙΙΑΣ			
# \$`Flug: Bangkok-THA` #			
DESCRIPTIVES			
<b>‡</b>			
# Descriptives #			_
‡ ‡	Preis	Cookies	
; N	560		_
Missing	0	0	
Mean Median	396 228		
Standard deviation			
Minimum	50.0		
Maximum	1193		
			-
FREQUENCIES			
Frequencies of Cooki	les 		
Levels	Counts	% of Total	Cumulative %
	280	50.0	50.0
Zurueckgesetzt	280	50.0	100.0
\$`Flug: New York-UAL`			
_			
DESCRIPTIVES			
Doggriptivos			
Descriptives			_
	Preis	Cookies	
		F60	_
N Missing	560 0	560 0	
Mean	396	J	
Median	228		
Standard deviation			
Minimum	50.0		
Maximum	1193		
			-
FREQUENCIES			
Frequencies of Cooki	es		

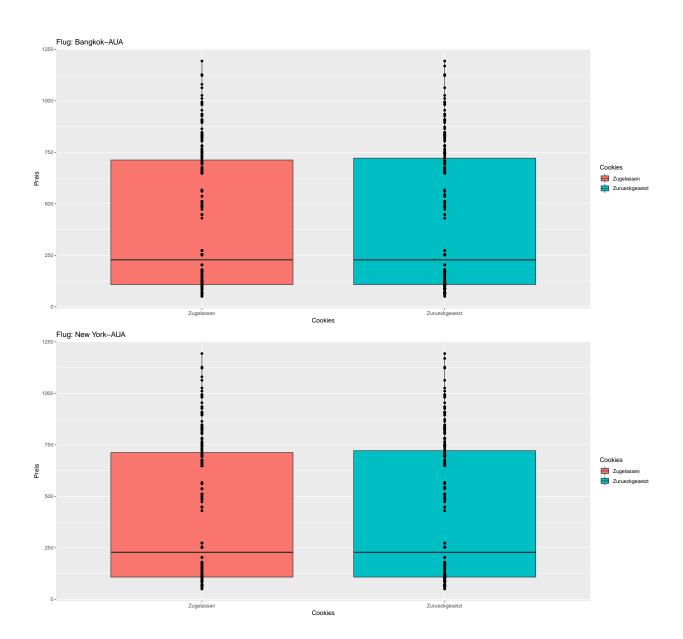
Levels	Counts	% of Total	Cumulative %
Zugelassen	280	50.0	50.0
Zurueckgesetzt	280	50.0	100.0
\$`Flug: Tokio-ANA`			
DESCRIPTIVES			
Descriptives			
	Preis	Cookies	
N	560	560	•
Missing	0	0	
Mean	396		
Median	228		
Standard deviation			
Minimum	50.0		
Maximum	1193		
			•
FREQUENCIES			
Frequencies of Cook	ies		
Levels	Counts	% of Total	Cumulative %
Zugelassen	280	50.0	50.0
Zurueckgesetzt	280	50.0	100.0

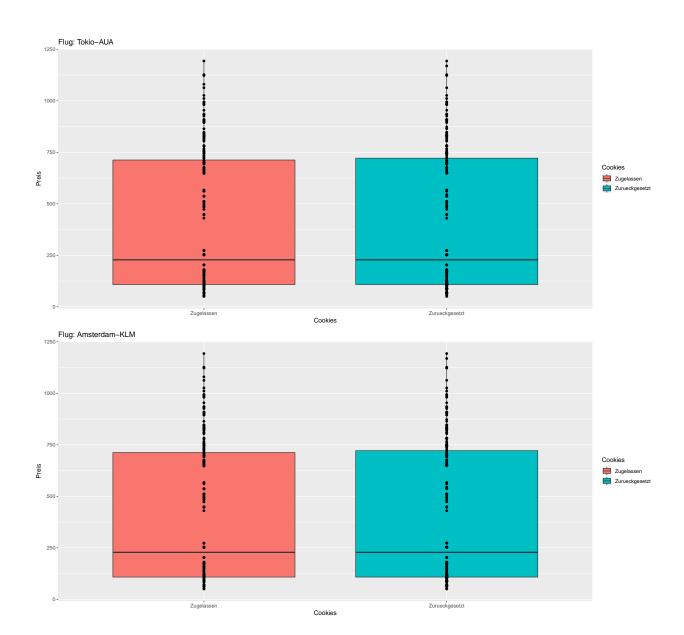
## Box-Plot - Einzelflüge

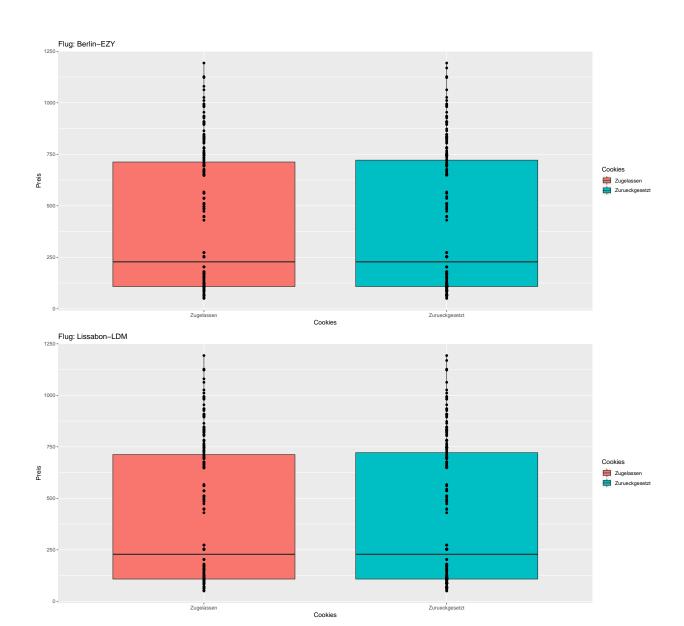


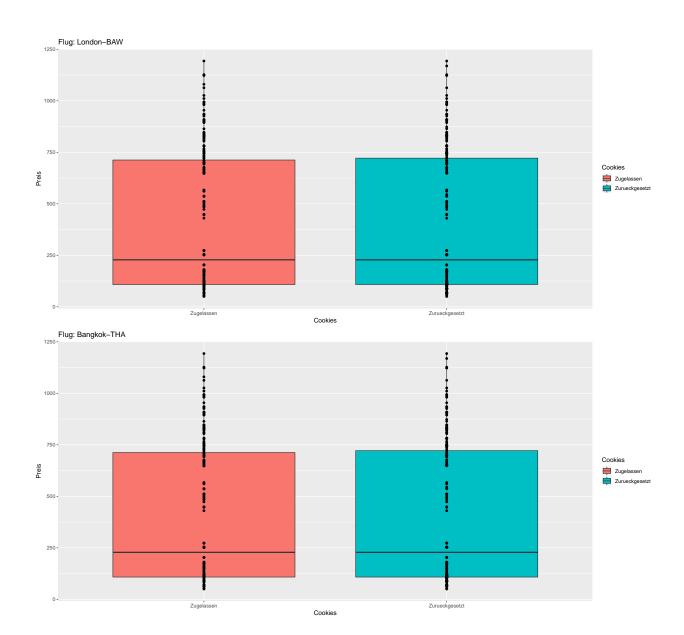


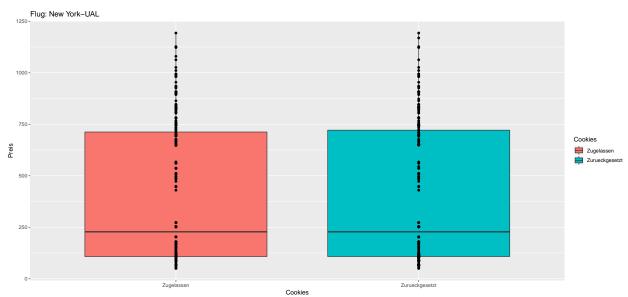


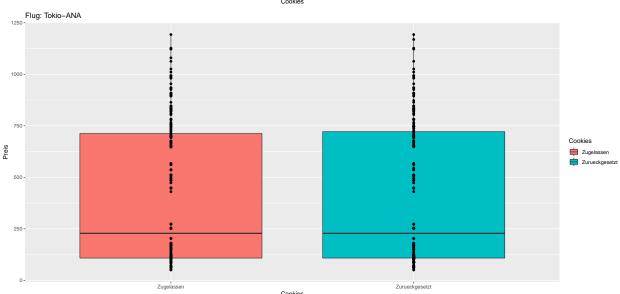












## **ANOVA**

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

## ANOVA

##

ANOVA

##

Cookies 5.21 1 5.21 4.71e-5 0.995 0.000

## Residuals 6.17e+7 558 110573.63

##

##

##

##

## ESTIMATED MARGINAL MEANS

```
##
 COOKIES
##
##
##
 Estimated Marginal Means - Cookies
##
  _____
##
   Cookies
            Mean SE
                          Lower Upper
##
    Zugelassen
               396
                    19.9
                            357
                                  435
    Zurueckgesetzt 396 19.9
##
                            357
                                  435
##
##
##
## $`Flug: Berlin-AUA`
##
##
  ANOVA
##
##
  ANOVA
  ______
##
            Sum of Squares df
                                                     <U+03B7>2p
                             Mean Square F
  ______
##
##
   Cookies
                  5.21
                         1
                                 5.21
                                        4.71e-5 0.995 0.000
   Residuals 6.17e+7 558 110573.63
##
##
##
##
  ESTIMATED MARGINAL MEANS
##
##
  COOKIES
##
  Estimated Marginal Means - Cookies
  _____
##
##
    Cookies
               Mean
                     SE
                          Lower
                                 Upper
##
##
                396
                    19.9
                            357
                                  435
    Zugelassen
    Zurueckgesetzt
                            357
                396 19.9
##
                                 435
##
##
##
## $`Flug: Lissabon-AUA`
##
##
  ANOVA
##
##
  ANOVA
           Sum of Squares df Mean Square F p <U+03B7>2p
##
                   5.21 1
                                  5.21 4.71e-5 0.995 0.000
##
   Cookies
##
   Residuals
                6.17e+7 558
                              110573.63
##
##
##
  ESTIMATED MARGINAL MEANS
##
##
```

## COOKIES

```
##
 Estimated Marginal Means - Cookies
  ______
##
##
                Mean SE
    Cookies
                           Lower
                                  Upper
  _____
##
##
                                    435
    Zugelassen 396 19.9
                             357
    Zurueckgesetzt 396 19.9 357
##
##
##
  $`Flug: London-AUA`
##
  ANOVA
##
##
##
  ANOVA
##
            Sum of Squares df Mean Square F p
                                                       <U+03B7>2p
##
                                   5.21 4.71e-5 0.995 0.000
##
                          1
    Cookies
                   5.21
             6.17e+7 558 110573.63
##
    Residuals
##
##
##
##
  ESTIMATED MARGINAL MEANS
##
##
  COOKIES
##
##
  Estimated Marginal Means - Cookies
##
##
    Cookies
                Mean SE
                           Lower
##
                     19.9
##
    Zugelassen
                 396
                             357
                                    435
                 396 19.9
                             357
                                    435
##
    Zurueckgesetzt
##
##
##
## $`Flug: Bangkok-AUA`
##
 ANOVA
##
##
  ______
##
                                                       <U+03B7>2p
            Sum of Squares df Mean Square F
                                                р
##
                          1
   Cookies
                    5.21
                                    5.21
                                          4.71e-5 0.995 0.000
                 6.17e+7 558 110573.63
##
    Residuals
##
##
  ESTIMATED MARGINAL MEANS
##
##
##
  COOKIES
##
## Estimated Marginal Means - Cookies
```

```
##
           Mean SE Lower Upper
   Cookies
  -----
##
##
                 396
                     19.9
                            357
                                   435
    Zugelassen
    Zurueckgesetzt 396 19.9
##
                            357
##
##
##
## $`Flug: New York-AUA`
##
##
  ANOVA
##
  ANOVA
##
  ______
            Sum of Squares df Mean Square F p <U+03B7>^2p
##
                5.21 1 5.21
6.17e+7 558 110573.63
##
                                  5.21 4.71e-5 0.995 0.000
   Cookies
##
   Residuals
##
##
##
##
  ESTIMATED MARGINAL MEANS
##
##
  COOKIES
##
  Estimated Marginal Means - Cookies
##
  Cookies Mean SE Lower Upper
##
                           357 435
357 435
   Zugelassen 396 19.9
Zurueckgesetzt 396 19.9
##
##
##
##
##
## $`Flug: Tokio-AUA`
##
##
 ANOVA
##
##
  ANOVA
##
  ______
            Sum of Squares df
                             Mean Square F
                                               p
                                                     <U+03B7>2p
##
  ______
                   5.21
##
   Cookies
                         1
                                  5.21
                                        4.71e-5 0.995 0.000
                5.21 1 5.21
6.17e+7 558 110573.63
##
   Residuals
##
##
  ESTIMATED MARGINAL MEANS
##
##
  COOKIES
##
##
##
 Estimated Marginal Means - Cookies
##
                Mean SE Lower Upper
##
   Cookies
```

```
##

      Zugelassen
      396
      19.9
      357
      435

      Zurueckgesetzt
      396
      19.9
      357
      435

##
##
##
##
##
## $`Flug: Amsterdam-KLM`
##
##
   ANOVA
##
##
   ANOVA
##
                                                               p <U+03B7>2p
                Sum of Squares df Mean Square F
   ______
##
                                 1
                                                      4.71e-5 0.995 0.000
    Cookies
                          5.21
                                               5.21
                     6.17e+7 558 110573.63
##
     Residuals
##
##
##
##
   ESTIMATED MARGINAL MEANS
##
##
   COOKIES
##
##
   Estimated Marginal Means - Cookies
##
##
                     Mean
                            SE
                                    Lower
##

      Zugelassen
      396
      19.9

      Zurueckgesetzt
      396
      19.9

##
                                      357
                                              435
##
                                      357
                                               435
##
##
##
  $`Flug: Berlin-EZY`
##
##
   ANOVA
##
##
##
                                       Mean Square F p <U+03B7>2p
##
                 Sum of Squares df
##
   ______
##
                          5.21
                                  1
                                               5.21
                                                      4.71e-5 0.995
                                                                         0.000
     Cookies
##
     Residuals
                      6.17e+7 558 110573.63
##
##
   ESTIMATED MARGINAL MEANS
##
##
##
   COOKIES
##
##
   Estimated Marginal Means - Cookies
##
                   Mean SE Lower Upper
##
##
##
     Zugelassen
                      396 19.9
                                      357
                                             435
```

```
Zurueckgesetzt 396 19.9 357 435
##
##
##
##
## $`Flug: Lissabon-LDM`
##
##
  ANOVA
##
##
   ANOVA
##
                                 Mean Square F
##
              Sum of Squares df
                                                      p
                                                              <U+03B7>2p
##
                      5.21
##
    Cookies
                             1
                                        5.21
                                               4.71e-5 0.995
                                                              0.000
                   5.21 1 5.21
6.17e+7 558 110573.63
##
    Residuals
##
##
##
##
   ESTIMATED MARGINAL MEANS
##
   COOKIES
##
##
##
   Estimated Marginal Means - Cookies
##
##
                        SE
    Cookies
                  Mean
                               Lower
##
   ______
##
    Zugelassen
                  396 19.9
                                 357
                                        435
    Zurueckgesetzt 396 19.9 357
##
                                       435
##
##
##
## $`Flug: London-BAW`
##
  ANOVA
##
##
##
   ANOVA
##
##
              Sum of Squares df Mean Square F p <U+03B7>2p
##
                             1
##
    Cookies
                       5.21
                                        5.21
                                               4.71e-5
                                                       0.995
                                                              0.000
##
                    6.17e+7 558
                                    110573.63
    Residuals
##
##
##
##
  ESTIMATED MARGINAL MEANS
##
  COOKIES
##
##
   Estimated Marginal Means - Cookies
##
   ______
##
                  Mean SE
                              Lower Upper
##
    Cookies
##
##
    Zugelassen
                 396 19.9
                               357
                                       435
    Zurueckgesetzt 396 19.9 357 435
##
##
```

```
##
##
## $`Flug: Bangkok-THA`
##
##
  ANOVA
##
##
##
               Sum of Squares df
                                    Mean Square F p
                                                               <U+03B7>2p
##
                               1
##
     Cookies
                       5.21
                                          5.21
                                                  4.71e-5 0.995
                                                                   0.000
                    6.17e+7 558 110573.63
##
    Residuals
##
##
##
##
   ESTIMATED MARGINAL MEANS
##
   COOKIES
##
##
##
   Estimated Marginal Means - Cookies
##
##
               Mean SE
                                Lower Upper
##
                396
                         19.9
##
                                   357
                                           435
    Zugelassen
    Zurueckgesetzt 396 19.9
                                  357
                                          435
##
##
##
## $`Flug: New York-UAL`
##
  ANOVA
##
##
   ANOVA
##
##
                                                                 <U+03B7>2p
               Sum of Squares df Mean Square F p
##
##
                                   5.21
110573.63
##
    Cookies
                       5.21
                              1
                                                  4.71e-5 0.995
                   6.17e+7 558
##
    Residuals
##
##
##
   ESTIMATED MARGINAL MEANS
##
##
##
   COOKIES
##
##
   Estimated Marginal Means - Cookies
##
##
                          SE
                   Mean
                                 Lower
##
                         19.9
                     396
                                   357
                                           435
##
     Zugelassen
    Zurueckgesetzt 396 19.9
                                   357 435
##
##
##
```

##

```
## $`Flug: Tokio-ANA`
##
##
  ANOVA
##
## ANOVA
##
               Sum of Squares df Mean Square F p <U+03B7>^2p
##
                    5.21 1 5.21 4.71e-5 0.995 0.000 6.17e+7 558 110573.63
##
    Cookies
    Residuals
##
##
##
##
##
  ESTIMATED MARGINAL MEANS
##
## COOKIES
##
  Estimated Marginal Means - Cookies
##
  _____
##
              Mean SE
##
    Cookies
                                Lower Upper
   -----
##

      Zugelassen
      396
      19.9
      357
      435

      Zurueckgesetzt
      396
      19.9
      357
      435

##
##
## -----
```