



```

name: <unnamed>
log: P:\Zofar\0_matrix_exp\results\oMatEx-Gesamt_results2_2023-04-13.smcl
log type: smcl
opened on: 13 Apr 2023, 17:49:28

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```

1 .
2 . *****
3 . ** Projekt/ Studie: Experiment offene Matrix
4 . *****
5 . ** Beschreibung Experiment:
6 . ** Erhebung der Verwendung von Stunden auf verschiedene Aktivitäten im aktuellen (bzw. letzten) Semester
7 . **** zlvwo (zlvwo2): Lehrveranstaltungen
8 . **** zseswo (zseswo2): Selbststudium
9 . **** zerwo (zerwo2): Erwerbstätigkeit
10 . **** zcarwo (zcarwo2): Pflege von Verwandten/Bekannten
11 . **** zchiwo (zchiwo2): Kinderbetreuung
12 . // "im letzten Semester" nur sichtbar, wenn HS-Semester (ssemhs)>1
13 .
14 . **** dkinja: Haben Sie Kinder? (1) nein/ (2) ja
15 . **** ssemhs: In welchem Hochschulsemester befinden Sie sich?
16 .
17 . ** verschiedene Ansichten der offenen Matrix:
18 . **** view_a56: Seitendarstellung nach Funktionalität: 0=Matrix-Ansicht, 1= Carousel, 2=scroll down
19 .
20 . ** [1.] für Befragungsabbruch:
21 . **** a56max: maximaler Seitenfortschritt, 0= mind. bis 79, 1= 79 (A_56/Matrix/Carousel), 80 (A_56c/scroll down, scroll
> rousel spaltenweise) oder 82 (A_56a/scroll down, zeilenweise)
22 . **** a56last: Seitenabbruch auf A_56/A_56a/A_56b/A_56c, 0= mind. bis 79, 1= Abbruch auf Seite 79 (A_56), 80 (A_56c)
> 6a)
23 .
24 . ** [2.] für Item-Nonresponse:
25 . **** m2_zeitmiss: Anzahl Missing-Werte mit HS>1 (zwei Spalten), ohne Kinder (0-8)
26 . **** zeitmiss: Anzahl der Missing-Werte bei den Variablen zlvwo - zchiwo2 (0-10) (wenn HS-Semester> 1 und Kinder=
27 . **** zeit1miss: Anzahl der Missing-Werte bei den Variablen zlvwo - zchiwo (nur 'dieses Semester')
28 . **** zeit2miss: Anzahl der Missing-Werte bei den Variablen zlvwo2 - zchiwo2 (nur 'letztes Semester')
29 . **** a56miss: Missing-Vorkommen dichotom, 0= keine Missings, 1=mind. 1 Missing für dieses und letztes Semester (z
> 2)
30 .
31 . ** [3.] für Bearbeitungszeit/ Verweildauer
32 . **** A56_dauer: Seitenverweildauer zusammengefasst von p79 bis p82
33 .
34 .
35 . ** ggf. Kontrollvariablen
36 . **** vd1_20: Selbsteinschätzung digitaler Kompetenz
37 . **** pbigintro, pbigextro, pbigtraum, pbigkrit, pbiggenau, pbigfaul, pbigruh, pbignerv, pbigkrea, pbignoku: Big F
38 . **** digflehr1 - digflehr6
39 . **** pswskill, pswkraft, pswaufg: Selbstwirksamkeitserwartungen
40 .
41 . tab survey

```

survey	Freq.	Percent	Cum.
[1] SiD-Corona	45,298	72.44	72.44
[2] Überbrückungshilfe	17,231	27.56	100.00
Total	62,529	100.00	

```

42 .
43 . /// nur Auswertungen von "normaler" Aufsplittung
> drop if convview==3 | convview==4
(4,934 observations deleted)

```

```

44 . *
45 . * _____ Deskriptive Statistiken _____
46 . * _____
47 .
48 . tab survey

```

survey	Freq.	Percent	Cum.
[1] SiD-Corona	45,298	78.65	78.65
[2] Überbrückungshilfe	12,297	21.35	100.00
Total	57,595	100.00	

```

49 .
50 . tab split_zeit survey

```

split_zeit	survey [2] Überb	Total
1	4,299	4,299
2	4,328	4,328
3	1,798	1,798
4	1,872	1,872
Total	12,297	12,297

```

51 .
52 . tab mobile_a56 survey

```

A_56 Mobilansic ht (Breite < 768)	survey		Total
	[1] SiD-C	[2] Überb	
0	28,894	7,412	36,306
1	16,404	4,885	21,289
Total	45,298	12,297	57,595

```

53 .
54 . tab view_a56 survey

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	survey		Total
	[1] SiD-C	[2] Überb	
matrix	11,177	7,412	18,589
carousel	4,864	2,473	7,337
scroll down	4,798	2,412	7,210
Total	20,839	12,297	33,136

```

55 .
56 . tab view_a56 split_zeit if survey==2

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	split_zeit				Total
	1	2	3	4	
matrix	1,826	1,916	1,798	1,872	7,412
carousel	2,473	0	0	0	2,473
scroll down	0	2,412	0	0	2,412
Total	4,299	4,328	1,798	1,872	12,297

```
57 .
58 . table view_a56, contents(mean A56_dauer n A56_dauer) format(%9.2f)
```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(A56_da~r)	N(A56_da~r)
matrix	96.55	17,918
carousel	79.75	5,665
scroll down	104.05	5,510

```
59 .
60 . *
61 . * _____ Auswertungen _____
62 . * _____
63 .
64 . * //////////////////////////////////////
65 . * _____ [1.] Befragungsabbruch _____
66 . * //////////////////////////////////////
67 .
68 . tab a56max view_a56, col exp V nokey chi2
```

Befragungs abbruch bei offener Matrix (mit maxpage)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	17,915 17,788.9 99.27	5,676 5,715.4 97.90	5,534 5,620.8 97.05	29,125 29,125.0 98.58
1	131 257.1 0.73	122 82.6 2.10	168 81.2 2.95	421 421.0 1.42
Total	18,046 18,046.0 100.00	5,798 5,798.0 100.00	5,702 5,702.0 100.00	29,546 29,546.0 100.00

Pearson chi2(2) = **175.7859** Pr = **0.000**
Cramér's V = **0.0771**

```
69 . tab a56last view_a56, col exp V nokey chi2
```

Befragungs abbruch bei offener Matrix (mit lastpage)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	17,918 17,789.5 99.29	5,675 5,715.6 97.88	5,533 5,620.9 97.04	29,126 29,126.0 98.58
1	128 256.5 0.71	123 82.4 2.12	169 81.1 2.96	420 420.0 1.42
Total	18,046 18,046.0 100.00	5,798 5,798.0 100.00	5,702 5,702.0 100.00	29,546 29,546.0 100.00

Pearson chi2(2) = **182.3902** Pr = **0.000**
 Cramér's V = **0.0786**

```
70 .
71 . *////////////////////
72 . *_____ [2.] Item-Nonresponse _____
73 . *////////////////////
74 .
75 . *_____ Verteilung ob Missing-Vorkommen (keine Kinder, mind. 2. Sem.)
76 . tab a56miss view_a56, exp V nokey chi2 col
```

a56miss	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	12,855	4,056	5,335	22,246
	12,479.8	4,925.7	4,840.5	22,246.0
	69.15	55.28	73.99	67.14
1	5,734	3,281	1,875	10,890
	6,109.2	2,411.3	2,369.5	10,890.0
	30.85	44.72	26.01	32.86
Total	18,589	7,337	7,210	33,136
	18,589.0	7,337.0	7,210.0	33,136.0
	100.00	100.00	100.00	100.00

Pearson chi2(2) = **655.3293** Pr = **0.000**
 Cramér's V = **0.1406**

```
77 .
78 . *_____ Verteilung ob Missing-Vorkommen unterteilt nach Survey (keine Kinder, mind. 2. Sem.)
79 . bysort survey: tab a56miss view_a56, exp V nokey chi2 col
```

-> survey = [1] SiD-Corona

a56miss	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	7,571	1,970	3,261	12,802
	6,866.4	2,988.1	2,947.6	12,802.0
	67.74	40.50	67.97	61.43
1	3,606	2,894	1,537	8,037
	4,310.6	1,875.9	1,850.4	8,037.0
	32.26	59.50	32.03	38.57
Total	11,177	4,864	4,798	20,839
	11,177.0	4,864.0	4,798.0	20,839.0
	100.00	100.00	100.00	100.00

Pearson chi2(2) = **1.2e+03** Pr = **0.000**
 Cramér's V = **0.2373**

-> survey = [2] Überbrückungshilfe

a56miss	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	5,284	2,086	2,074	9,444
	5,692.4	1,899.2	1,852.4	9,444.0
	71.29	84.35	85.99	76.80
1	2,128	387	338	2,853
	1,719.6	573.8	559.6	2,853.0
	28.71	15.65	14.01	23.20
Total	7,412	2,473	2,412	12,297

7,412.0	2,473.0	2,412.0	12,297.0
100.00	100.00	100.00	100.00

Pearson chi2(2) = 319.6836 Pr = 0.000
Cramér's V = 0.1612

```
80 .
81 . ///////////////
> * _____ Verteilung von Item-Nonresponse (keine Kinder, mind. 2. Sem.)
82 . tab m2_zeitmiss view_a56, exp V nokey chi2 col
```

Anzahl Missing-We rte mit HS>1, ohne Kinder (0-8)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	9,767	1,499	2,825	14,091
	8,743.6	2,696.2	2,651.1	14,091.0
	63.01	31.36	60.11	56.41
1	244	16	18	278
	172.5	53.2	52.3	278.0
	1.57	0.33	0.38	1.11
2	1,390	351	460	2,201
	1,365.7	421.2	414.1	2,201.0
	8.97	7.34	9.79	8.81
3	177	13	28	218
	135.3	41.7	41.0	218.0
	1.14	0.27	0.60	0.87
4	905	377	275	1,557
	966.1	297.9	292.9	1,557.0
	5.84	7.89	5.85	6.23
5	111	11	19	141
	87.5	27.0	26.5	141.0
	0.72	0.23	0.40	0.56
6	273	1,715	110	2,098
	1,301.8	401.4	394.7	2,098.0
	1.76	35.88	2.34	8.40
7	22	33	11	66
	41.0	12.6	12.4	66.0
	0.14	0.69	0.23	0.26
8	2,612	765	954	4,331
	2,687.4	828.7	814.8	4,331.0
	16.85	16.00	20.30	17.34
Total	15,501	4,780	4,700	24,981
	15,501.0	4,780.0	4,700.0	24,981.0
	100.00	100.00	100.00	100.00

Pearson chi2(16) = 6.2e+03 Pr = 0.000
Cramér's V = 0.3531

83 .
 84 . * _____ Verteilung von Item-Nonresponse unterteilt nach Survey (keine Kinder, mind. 2. Sem.)
 85 . bysort survey: tab m2_zeitmiss view_a56 , exp V nokey chi2 col

-> survey = [1] SiD-Corona

Anzahl Missing-We rte mit HS>1, ohne Kinder (0-8)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	6,043 5,236.8 62.63	1,105 2,170.4 27.63	2,391 2,131.8 60.87	9,539 9,539.0 54.27
1	141 92.2 1.46	11 38.2 0.28	16 37.5 0.41	168 168.0 0.96
2	880 829.0 9.12	269 343.6 6.73	361 337.5 9.19	1,510 1,510.0 8.59
3	108 70.8 1.12	5 29.4 0.13	16 28.8 0.41	129 129.0 0.73
4	565 599.5 5.86	301 248.5 7.53	226 244.0 5.75	1,092 1,092.0 6.21
5	54 42.3 0.56	8 17.5 0.20	15 17.2 0.38	77 77.0 0.44
6	140 1,004.1 1.45	1,590 416.1 39.76	99 408.8 2.52	1,829 1,829.0 10.41
7	12 28.5 0.12	30 11.8 0.75	10 11.6 0.25	52 52.0 0.30
8	1,706 1,745.8 17.68	680 723.5 17.00	794 710.7 20.21	3,180 3,180.0 18.09
Total	9,649 9,649.0 100.00	3,999 3,999.0 100.00	3,928 3,928.0 100.00	17,576 17,576.0 100.00

Pearson chi2(16) = 5.2e+03 Pr = 0.000
 Cramér's V = 0.3834

-> survey = [2] Überbrückungshilfe

Anzahl Missing-We rte mit HS>1, ohne Kinder (0-8)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			Total
	matrix	carousel	scroll do	
0	3,724 3,597.3 63.64	394 480.1 50.45	434 474.6 56.22	4,552 4,552.0 61.47
1	103	5	2	110

	86.9 1.76	11.6 0.64	11.5 0.26	110.0 1.49
2	510 546.1 8.71	82 72.9 10.50	99 72.0 12.82	691 691.0 9.33
3	69 70.3 1.18	8 9.4 1.02	12 9.3 1.55	89 89.0 1.20
4	340 367.5 5.81	76 49.0 9.73	49 48.5 6.35	465 465.0 6.28
5	57 50.6 0.97	3 6.8 0.38	4 6.7 0.52	64 64.0 0.86
6	133 212.6 2.27	125 28.4 16.01	11 28.0 1.42	269 269.0 3.63
7	10 11.1 0.17	3 1.5 0.38	1 1.5 0.13	14 14.0 0.19
8	906 909.6 15.48	85 121.4 10.88	160 120.0 20.73	1,151 1,151.0 15.54
Total	5,852 5,852.0 100.00	781 781.0 100.00	772 772.0 100.00	7,405 7,405.0 100.00

Pearson chi2(16) = **468.7390** Pr = **0.000**
Cramér's V = **0.1779**

```
86 .
87 .
88 . *////////////////////////////////////
89 . * _____[3.] Bearbeitungsdauer (ohne Missings)_____
90 . *////////////////////////////////////
91 . preserve
```

```
92 . //// Fälle entfernen mit Bearbeitungsdauer von mehr als 10 Minuten
> drop if A56_dauer>600
(17,904 observations deleted)
```

```
93 .
94 . table view_a56 if m2_zeitmiss==0 & A56_dauer!=. , contents(mean A56_dauer n A56_dauer max A56_dauer p25 A56_dauer
> f)
```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(A56_~r)	N(A56_dauer)	max(A56_d~r)	p25(A56_d~r)	p90(A56_d~r)
matrix	95.54	9,640	596.66	49.31	181.35
carousel	103.33	1,472	587.85	60.85	180.66
scroll down	97.88	2,754	597.87	56.24	170.98

```
95 .
96 . * _____ T-Test (nur mobile vs. non-mobile)
97 . ttest A56_dauer if m2_zeitmiss==0 , by(mobile_a56)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,667	97.33826	.6106789	76.43739	96.14126	98.53526
1	4,226	99.78059	1.095197	71.19625	97.63343	101.9278
Combined	19,893	97.8571	.5343023	75.35936	96.80982	98.90438
diff		-2.442331	1.306178		-5.002548	.1178872

diff = mean(0) - mean(1) t = -1.8698
H0: diff = 0 Degrees of freedom = 19891

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0308 Pr(|T| > |t|) = 0.0615 Pr(T > t) = 0.9692

```
98 .
99 . * _____ Varianzanalyse
100 . anova A56_dauer view_a56 if m2_zeitmiss==0
```

Number of obs =		13,866	R-squared =	0.0011	
Root MSE =		73.9479	Adj R-squared =	0.0009	
Source	Partial SS	df	MS	F	Prob>F
Model	81361.406	2	40680.703	7.44	0.0006
view_a56	81361.406	2	40680.703	7.44	0.0006
Residual	75806832	13,863	5468.2848		
Total	75888193	13,865	5473.3641		

```
101 .
102 . table view_a56 if m2_zeitmiss==0, contents(mean A56_dauer p50 A56_dauer p25 A56_dauer p75 A56_dauer n A56_dauer) +
```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(A56_~r)	med(A56_d~r)	p25(A56_d~r)	p75(A56_d~r)	N(A56_dauer)
matrix	95.54	72.11	49.31	113.16	9,640
carousel	103.33	83.15	60.85	118.39	1,472
scroll down	97.88	77.51	56.24	111.75	2,754

```
103 . /// nur Befragte ohne Item-Nonresponse um die Beobachtung konstant zu halten, da item-nonresponse abhängig von Vi
>
104 . restore

105 .
106 . *////////////////////////////////////
```



```

107 . * _____[4.] Angaben_____
108 . * //////////////////////////////////////
109 .
110 . *----- Angaben zu diesem Semester (nur ohne Missings) -----
111 . // Lehrveranstaltungen
112 . ttest zlvwo if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	12.32827	.0825619	10.40411	12.16644	12.49011
1	4,324	13.86309	.1796956	11.81626	13.51079	14.21539
Combined	20,204	12.65675	.0755599	10.74015	12.50865	12.80485
diff		-1.534815	.183918		-1.895309	-1.174321

```

diff = mean(0) - mean(1)
H0: diff = 0
Ha: diff < 0
Pr(T < t) = 0.0000
Ha: diff != 0
Pr(|T| > |t|) = 0.0000
Ha: diff > 0
Pr(T > t) = 1.0000
t = -8.3451
Degrees of freedom = 20202

```

```

113 . oneway zlvwo view_a56 if m2_zeitmiss==0, scheffe

```

Analysis of variance					
Source	SS	df	MS	F	Prob > F
Between groups	4793.34986	2	2396.67493	19.14	0.0000
Within groups	1764423.07	14088	125.242978		
Total	1769216.42	14090	125.565395		

Bartlett's equal-variances test: chi2(2) = 48.8006 Prob>chi2 = 0.000

Comparison of
Zeitbudget - dieses Semester (Std. pro (typ.) Woche: Lehrveranstaltungen
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	1.84469	0.000
scroll d	.650801	-1.19389
	0.025	0.004

```

114 . table view_a56 if m2_zeitmiss==0, contents(mean zlvwo n zlvwo sd zlvwo) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zlvwo)	N(zlvwo)	sd(zlvwo)
matrix	12.80	9,767	10.91
carousel	14.64	1,499	12.37
scroll down	13.45	2,825	11.49

```

115 .
116 . // Selbststudium
117 . ttest zseswo if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	20.90882	.1182701	14.90391	20.67699	21.14064
1	4,324	20.34736	.2327679	15.30615	19.89102	20.80371
Combined	20,204	20.78866	.1054749	14.99229	20.58192	20.9954
diff		.5614526	.2571449		.0574275	1.065478

diff = mean(0) - mean(1) t = 2.1834
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9855 Pr(|T| > |t|) = 0.0290 Pr(T > t) = 0.0145

```

118 . oneway zseswo view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	2223.62948	2	1111.81474	4.83	0.0080
Within groups	3241384.1	14088	230.081211		
Total	3243607.73	14090	230.206368		

Bartlett's equal-variances test: chi2(2) = 2.5787 Prob>chi2 = 0.275

Comparison of
Zeitbudget - dieses Semester (Std. pro (typ.) Woche: Selbststudium
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix	carousel
carousel	-1.28913 0.009	
scroll d	-.339819 0.577	.949309 0.147

```

119 . table view_a56 if m2_zeitmiss==0, contents(mean zseswo n zseswo sd zseswo) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zseswo)	N(zseswo)	sd(zseswo)
matrix	21.02	9,767	15.11
carousel	19.73	1,499	15.01
scroll down	20.68	2,825	15.45

```

120 .
121 . // Erwerbstätigkeit
122 . ttest zerwo if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	7.491908	.081474	10.26701	7.33221	7.651606
1	4,324	7.922988	.168963	11.11052	7.591734	8.254242
Combined	20,204	7.584167	.0735502	10.45448	7.440002	7.728331
diff		-.4310799	.1793088		-.7825397	-.0796201

diff = mean(0) - mean(1) t = -2.4041
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0081 Pr(|T| > |t|) = 0.0162 Pr(T > t) = 0.9919

```

123 . oneway zerwo view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	620.137042	2	310.068521	2.79	0.0613
Within groups	1564204.2	14088	111.030962		
Total	1564824.33	14090	111.059215		

Bartlett's equal-variances test: chi2(2) = 42.0216 Prob>chi2 = 0.000

Comparison of
Zeitbudget - dieses Semester (Std. pro (typ.) Woche: Erwerbstätigkeit
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	.330862 0.527	
scroll d	.503998 0.082	.173136 0.876

```

124 . table view_a56 if m2_zeitmiss==0, contents(mean zerwo n zerwo sd zerwo) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zerwo)	N(zerwo)	sd(zerwo)
matrix	7.48	9,767	10.27
carousel	7.81	1,499	10.77
scroll down	7.98	2,825	11.29

```

125 .
126 . // Pflege von Verwandten / Bekannten
127 . ttest zcarwo if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	1.740554	.0425909	5.367126	1.657071	1.824037
1	4,324	1.930851	.0936899	6.160779	1.747171	2.114531
Combined	20,204	1.781281	.0390242	5.546929	1.70479	1.857772
diff		-.1902969	.0951417		-.3767824	-.0038114

diff = mean(0) - mean(1) t = -2.0001
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0227 Pr(|T| > |t|) = 0.0455 Pr(T > t) = 0.9773

```

128 . oneway zcarwo view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	45.3588869	2	22.6794435	0.73	0.4833
Within groups	439395.382	14088	31.1893371		
Total	439440.741	14090	31.1881292		

Bartlett's equal-variances test: chi2(2) = 245.0036 Prob>chi2 = 0.000

Comparison of
Zeitbudget - dieses Semester (Std. pro (typ.) Woche: Pflege von Verwandten/Bekan
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	-.061636 0.924	
scroll d	.125577 0.575	.187213 0.577

```

129 . table view_a56 if m2_zeitmiss==0, contents(mean zcarwo n zcarwo sd zcarwo) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zcarwo)	N(zcarwo)	sd(zcarwo)
matrix	1.87	9,767	5.31
carousel	1.81	1,499	5.20
scroll down	2.00	2,825	6.62

```

130 .
131 . ///////////////////////////////////
    > // Summenindex der Angaben (dieses Semester)
132 . ttest sum_zeit_sem1 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	42.46955	.1731011	21.81348	42.13026	42.80885
1	4,324	44.06429	.3666698	24.11115	43.34543	44.78315
Combined	20,204	42.81085	.1571265	22.33408	42.50287	43.11884
diff		-1.594739	.3829509		-2.345354	-.8441245

diff = mean(0) - mean(1) t = -4.1643
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

```

133 . oneway sum_zeit_sem1 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	2443.08621	2	1221.54311	2.28	0.1025
Within groups	7553021.98	14088	536.1316		
Total	7555465.07	14090	536.228891		

Bartlett's equal-variances test: chi2(2) = 22.1631 Prob>chi2 = 0.000

Comparison of wöchentliches Zeitbudget in diesem Semester (ohne Kinder)
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	.824791 0.438	
scroll d	.940557 0.164	.115766 0.988

```

134 . table view_a56 if m2_zeitmiss==0, contents(mean sum_zeit_sem1 n sum_zeit_sem1 sd sum_zeit_sem1) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(sum_ze~1)	N(sum_ze~1)	sd(sum_ze~1)
matrix	43.16	9,767	22.72
carousel	43.99	1,499	23.86
scroll down	44.10	2,825	24.25

```

135 .
136 . *----- Angaben zum letzten Semester (längere Zeit vergangen)-----
137 . // Lehrveranstaltungen
138 . ttest zlvwo2 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	16.01763	.0832445	10.49013	15.85446	16.1808
1	4,324	17.49167	.1701851	11.19088	17.15802	17.82532
Combined	20,204	16.3331	.0750021	10.66086	16.18609	16.48011
diff		-1.474042	.1825804		-1.831915	-1.11617

diff = mean(0) - mean(1) t = -8.0734
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

```

139 . oneway zlvwo2 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	7618.89069	2	3809.44535	31.27	0.0000
Within groups	1716067.51	14088	121.810584		
Total	1723686.4	14090	122.334024		

Bartlett's equal-variances test: chi2(2) = 23.0252 Prob>chi2 = 0.000

Comparison of
Zeitbudget - letztes Semester (Std. pro (typ.) Woche: Lehrveranstaltungen
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	1.77701 0.000	
scroll d	1.48398 0.000	-.293034 0.708

```

140 . table view_a56 if m2_zeitmiss==0, contents(mean zlvwo2 n zlvwo2 sd zlvwo2) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zlvwo2)	N(zlvwo2)	sd(zlvwo2)
matrix	15.91	9,767	10.97
carousel	17.68	1,499	11.93
scroll down	17.39	2,825	10.78

```

141 .
142 . // Selbststudium
143 . ttest zseswo2 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	17.1818	.1038421	13.08576	16.97826	17.38534
1	4,324	15.93929	.1996436	13.12799	15.54789	16.3307
Combined	20,204	16.91588	.0921931	13.10439	16.73518	17.09659
diff		1.242509	.2246206		.802234	1.682783

diff = mean(0) - mean(1) t = 5.5316
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

```

144 . oneway zseswo2 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	9319.50339	2	4659.7517	25.56	0.0000
Within groups	2568710.27	14088	182.333211		
Total	2578029.78	14090	182.968756		

Bartlett's equal-variances test: chi2(2) = 9.5071 Prob>chi2 = 0.009

Comparison of
Zeitbudget - letztes Semester (Std. pro (typ.) Woche: Selbststudium
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	-1.87715 0.000	
scroll d	-1.69846 0.000	.178691 0.918

```

145 . table view_a56 if m2_zeitmiss==0, contents(mean zseswo2 n zseswo2 sd zseswo2) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zseswo2)	N(zseswo2)	sd(zseswo2)
matrix	17.70	9,767	13.67
carousel	15.82	1,499	13.11
scroll down	16.00	2,825	13.14

```

146 .
147 . // Erwerbstätigkeit
148 . ttest zerwo2 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	8.925756	.0836849	10.54562	8.761724	9.089787
1	4,324	9.480111	.170615	11.21915	9.145618	9.814604
Combined	20,204	9.044397	.0752456	10.69547	8.89691	9.191885
diff		-.5543553	.1834269		-.913887	-.1948237

diff = mean(0) - mean(1) t = -3.0222
H0: diff = 0 Degrees of freedom = 20202

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0013 Pr(|T| > |t|) = 0.0025 Pr(T > t) = 0.9987

```

149 . oneway zerwo2 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	1316.27662	2	658.138308	5.69	0.0034
Within groups	1629670.29	14088	115.677902		
Total	1630986.56	14090	115.754902		

Bartlett's equal-variances test: chi2(2) = 31.1016 Prob>chi2 = 0.000

Comparison of
Zeitbudget - letztes Semester (Std. pro (typ.) Woche: Erwerbstätigkeit
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	-.058072 0.981	
scroll d	.754398 0.005	.81247 0.061

```

150 . table view_a56 if m2_zeitmiss==0, contents(mean zerwo2 n zerwo2 sd zerwo2) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zerwo2)	N(zerwo2)	sd(zerwo2)
matrix	9.01	9,767	10.55
carousel	8.95	1,499	10.74
scroll down	9.76	2,825	11.46


```

151 .
152 . // Pflege von Verwandten / Bekannten
153 . ttest zcarwo2 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	1.538602	.0405535	5.110384	1.459113	1.618091
1	4,324	1.574468	.0819078	5.386024	1.413887	1.735049
Combined	20,204	1.546278	.0363759	5.170497	1.474978	1.617578
diff		-.0358661	.0886935		-.2097126	.1379804

diff = mean(0) - mean(1) t = **-0.4044**
H0: diff = 0 Degrees of freedom = **20202**

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = **0.3430** Pr(|T| > |t|) = **0.6859** Pr(T > t) = **0.6570**

```

154 . oneway zcarwo2 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	71.8660907	2	35.9330453	1.27	0.2804
Within groups	398071.012	14088	28.2560344		
Total	398142.878	14090	28.2571241		

Bartlett's equal-variances test: chi2(2) = **51.4760** Prob>chi2 = **0.000**

Comparison of
Zeitbudget - letztes Semester (Std. pro (typ.) Woche: Pflege von Verwandten/Beka
by Ansicht A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

Row Mean- Col Mean	matrix carousel	
carousel	-.185501 0.453	
scroll d	-.134316 0.497	.051185 0.956

```

155 . table view_a56 if m2_zeitmiss==0, contents(mean zcarwo2 n zcarwo2 sd zcarwo2) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(zcarwo2)	N(zcarwo2)	sd(zcarwo2)
matrix	1.73	9,767	5.28
carousel	1.54	1,499	4.82
scroll down	1.59	2,825	5.66

```

156 .
157 .
158 . ///////////////////////////////////
    > // Summenindex der Angaben (letztes Semester)
159 . ttest sum_zeit_sem2 if m2_zeitmiss==0, by(mobile_a56)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	15,880	43.66379	.1648938	20.77923	43.34058	43.987
1	4,324	44.48555	.3413333	22.4451	43.81636	45.15473
Combined	20,204	43.83966	.1487885	21.14891	43.54802	44.1313
diff		-.8217549	.3627389		-1.532753	-.1107571

```

diff = mean(0) - mean(1)                                t = -2.2654
H0: diff = 0                                             Degrees of freedom = 20202

Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.0117          Pr(|T| > |t|) = 0.0235          Pr(T > t) = 0.9883

```

```

160 . oneway sum_zeit_sem2 view_a56 if m2_zeitmiss==0, scheffe

```

Source	Analysis of variance			F	Prob > F
	SS	df	MS		
Between groups	613.608699	2	306.80435	0.62	0.5379
Within groups	6971097.8	14088	494.825227		
Total	6971711.41	14090	494.798539		

```

Bartlett's equal-variances test: chi2(2) = 2.1520 Prob>chi2 = 0.341

```

```

Comparison of wöchentliches Zeitbudget im letzten Semester (ohne Kinder)
by Ansicht_A_56 unterteilt: Carousel vs. Scrolling
(Scheffe)

```

Row Mean- Col Mean	matrix carousel	
carousel	-.343718 0.856	
scroll d	.405594 0.695	.749312 0.574

```

161 . table view_a56 if m2_zeitmiss==0, contents(mean sum_zeit_sem2 n sum_zeit_sem2 sd sum_zeit_sem2) format(%9.2f)

```

Ansicht A_56 unterteilt: Carousel vs. Scrolling	mean(sum_ze~2)	N(sum_ze~2)	sd(sum_ze~2)
matrix	44.34	9,767	22.16
carousel	44.00	1,499	22.80
scroll down	44.75	2,825	22.26

```

162 .
163 .
164 . log close
    name: <unnamed>
    log: P:\Zofar\0_matrix_exp\results\oMatEx-Gesamt_results2_2023-04-13.smcl
    log type: smcl
    closed on: 13 Apr 2023, 17:49:34

```