```
                                            ___  ___  ___  ___  ___(R)
                                           /_  /  /__/  /  __/
                                           __/  /  /__/  /  /__/
                                            Statistics/Data analysis
```

                                        Project: oMatEx (gemeinsame Auswertungen)
_____

          name: <unnamed>
           log: P:\Zofar\0_matrix_exp\results\oMatEx-Gesamt_results2_2021-08-31.smcl
      log type: smcl
     opened on: 31 Aug 2021, 10:24:22

```
  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, spal
    > r 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),
 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='j
 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 (zlv
 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 Five
 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 conview==3 | conview==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
```

| | survey | |
split_zeit	[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 Mobilansicht (Breite < 768)	survey [1] SiD-C	[2] Überb	Total
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 [1] SiD-C	[2] Überb	Total
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 1	2	3	4	Total
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	5,676	5,534	29,125
	17,788.9	5,715.4	5,620.8	29,125.0
	99.27	97.90	97.05	98.58
1	131	122	168	421
	257.1	82.6	81.2	421.0
	0.73	2.10	2.95	1.42
Total	18,046	5,798	5,702	29,546
	18,046.0	5,798.0	5,702.0	29,546.0
	100.00	100.00	100.00	100.00

$$\text{Pearson chi2}(2) = 175.7859 \quad Pr = 0.000$$
$$\text{Cramér's V} = 0.0771$$

```
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	5,675	5,533	29,126
	17,789.5	5,715.6	5,620.9	29,126.0
	99.29	97.88	97.04	98.58
1	128	123	169	420
	256.5	82.4	81.1	420.0
	0.71	2.12	2.96	1.42
Total	18,046	5,798	5,702	29,546
	18,046.0	5,798.0	5,702.0	29,546.0
	100.00	100.00	100.00	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
```

	Ansicht A_56 unterteilt: Carousel vs. Scrolling			
a56miss	matrix	carousel	scroll do	Total
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

	Ansicht A_56 unterteilt: Carousel vs. Scrolling			
a56miss	matrix	carousel	scroll do	Total
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

	Ansicht A_56 unterteilt: Carousel vs. Scrolling			
a56miss	matrix	carousel	scroll do	Total
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-Werte 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-Werte mit HS>1, ohne Kinder (0-8)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			
	matrix	carousel	scroll do	Total
0	6,043	1,105	2,391	9,539
	5,236.8	2,170.4	2,131.8	9,539.0
	62.63	27.63	60.87	54.27
1	141	11	16	168
	92.2	38.2	37.5	168.0
	1.46	0.28	0.41	0.96
2	880	269	361	1,510
	829.0	343.6	337.5	1,510.0
	9.12	6.73	9.19	8.59
3	108	5	16	129
	70.8	29.4	28.8	129.0
	1.12	0.13	0.41	0.73
4	565	301	226	1,092
	599.5	248.5	244.0	1,092.0
	5.86	7.53	5.75	6.21
5	54	8	15	77
	42.3	17.5	17.2	77.0
	0.56	0.20	0.38	0.44
6	140	1,590	99	1,829
	1,004.1	416.1	408.8	1,829.0
	1.45	39.76	2.52	10.41
7	12	30	10	52
	28.5	11.8	11.6	52.0
	0.12	0.75	0.25	0.30
8	1,706	680	794	3,180
	1,745.8	723.5	710.7	3,180.0
	17.68	17.00	20.21	18.09
Total	9,649	3,999	3,928	17,576
	9,649.0	3,999.0	3,928.0	17,576.0
	100.00	100.00	100.00	100.00

$$\text{Pearson chi2(16)} = 5.2e+03 \quad \text{Pr} = 0.000$$
$$\text{Cramér's V} = 0.3834$$

-> survey = [2] Überbrückungshilfe

Anzahl Missing-Werte mit HS>1, ohne Kinder (0-8)	Ansicht A_56 unterteilt: Carousel vs. Scrolling			
	matrix	carousel	scroll do	Total
0	3,724	394	434	4,552
	3,597.3	480.1	474.6	4,552.0
	63.64	50.45	56.22	61.47
1	103	5	2	110
	86.9	11.6	11.5	110.0
	1.76	0.64	0.26	1.49
2	510	82	99	691

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

$$\text{Pearson chi2}(\mathbf{16}) = \mathbf{468.7390} \quad Pr = \mathbf{0.000}$$
$$\text{Cramér's V} = \mathbf{0.1779}$$

```
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 p9
```

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
Ho: 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) for
```

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 View/
 >
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)                                   t =  -8.3451
Ho: 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
```

```
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 test for equal variances: 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 0.025	-1.19389 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
Ho: 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

Analysis of Variance

Source	SS	df	MS	F	Prob > F
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 test for equal variances: 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
Ho: 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

	Analysis of Variance				
Source	SS	df	MS	F	Prob > F
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 test for equal variances: 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
Ho: 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 SS	df	MS	F	Prob > F
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 test for equal variances: 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
Ho: 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 SS	df	MS	F	Prob > F
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 test for equal variances: 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
Ho: 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

Analysis of Variance

Source	SS	df	MS	F	Prob > F
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 test for equal variances: 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
Ho: 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

```
                          Analysis of Variance
      Source              SS         df       MS            F       Prob > F
──────────────────────────────────────────────────────────────────────────
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 test for equal variances: 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     .178691
         │      0.000       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
Ho: 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

```
                            Analysis of Variance
      Source              SS          df      MS          F      Prob > F

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 test for equal variances: 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     .81247
            |     0.005       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
Ho: 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

```
                            Analysis of Variance
      Source              SS          df      MS          F      Prob > F

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 test for equal variances: 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     .051185
         |       0.497       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
Ho: 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

```
                      Analysis of Variance
    Source              SS         df      MS          F      Prob > F
───────────────────────────────────────────────────────────────────────
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 test for equal variances:  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_2021-08-31.smcl
  log type: smcl
 closed on: 31 Aug 2021, 10:24:26