

Základy psychometrie

Úvod do práce s jamovi

Téma 1

Reliabilita





McDonaldova omega, 1999
colorized

Reliabilita

□ Factor -> Reliability analysis

- Deskriptivy škál a položek
 - Ukazatele vnitřní konzistence (alfa, omega)
 - Item-rest korelace (= korigovaná item-total r)
 - Vizualizace korelací mezi položkami
 - Funkce pro práci s inverzními položkami
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Reliability Analysis



- P02
 - P03
 - P04
 - P05
 - P06
 - P07
 - P08
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Scale Statistics

- Cronbach's α
- McDonald's ω
- Mean
- Standard deviation

Additional Options

- Correlation heatmap

Item Statistics

- Cronbach's α (if item is dropped)
- McDonald's ω (if item is dropped)
- Mean
- Standard deviation
- Item-rest correlation

Reliability Analysis

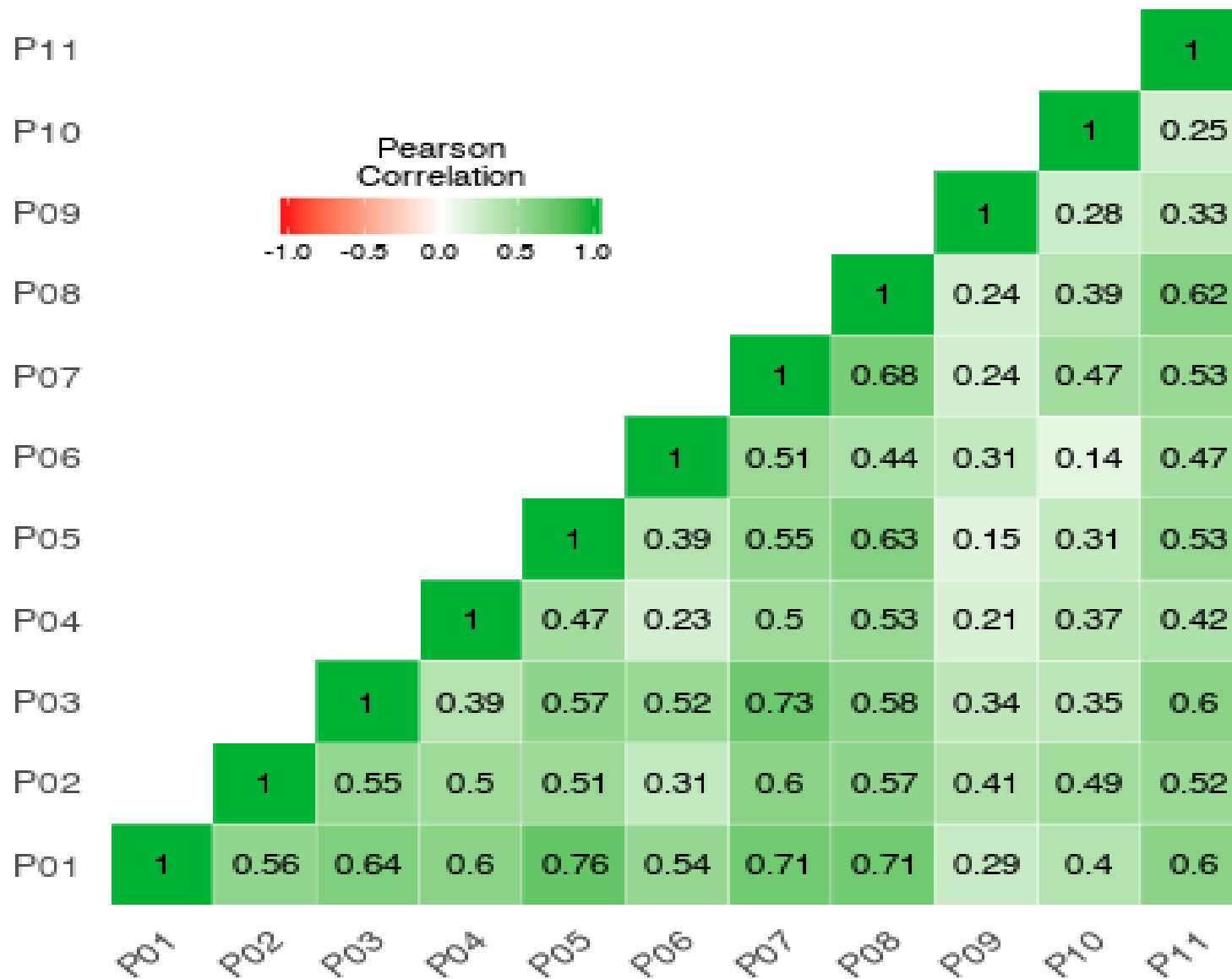
Scale Reliability Statistics

	mean	sd	Cronbach's α	McDonald's ω
scale	2.64	1.06	0.903	0.909

Item Reliability Statistics

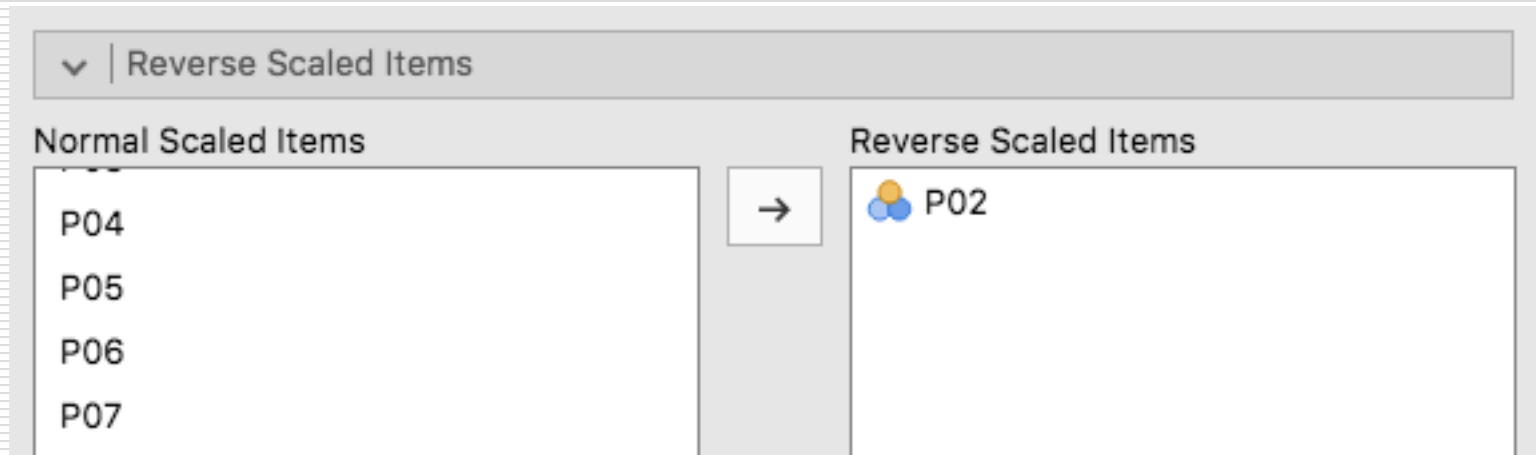
	mean	sd	item-rest correlation	if item dropped	
				Cronbach's α	McDonald's ω
P01	1.88	1.62	0.835	0.883	0.891
P02	1.58	1.37	0.703	0.892	0.899
P03	3.81	1.32	0.735	0.890	0.896
P04	1.79	1.74	0.587	0.899	0.905
P05	2.42	1.82	0.685	0.893	0.899
P06	3.48	1.35	0.518	0.901	0.907
P07	3.28	1.56	0.782	0.887	0.893
P08	2.27	1.57	0.764	0.888	0.895
P09	3.36	1.28	0.365	0.908	0.914
P10	1.71	1.53	0.472	0.904	0.910
P11	3.48	1.07	0.679	0.895	0.900

Correlation Heatmap



Reliabilita

- Jamovi upozorní na inverzní položky a samo umožní rychlou opravu přetažením položky v nabídce *Reverse scaled items*



Scale Reliability Statistics

	mean	sd	Cronbach's α	McDonald's ω
scale	2.81	0.889	0.819	0.866

Note. item 'P02' correlates negatively with the total scale and probably should be reversed

Item Reliability Statistics

	mean	sd	item-rest correlation	if item dropped	
				Cronbach's α	McDonald's ω
P01	1.88	1.62	0.845	0.766	0.829
P02 ^a	3.42	1.37	-0.703	0.892	0.899

P06					1	0.51	0.44	0.31	0.14	0.47	
P05				1	0.39	0.55	0.63	0.15	0.31	0.53	
P04			1	0.47	0.23	0.5	0.53	0.21	0.37	0.42	
P03		1	0.39	0.57	0.52	0.73	0.58	0.34	0.35	0.6	
P02	1	-0.55	-0.5	-0.51	-0.81	-0.6	-0.57	-0.41	-0.49	-0.52	
P01	1	-0.56	0.64	0.6	0.76	0.54	0.71	0.71	0.29	0.4	0.6
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11

Ale pozor – jsou-li korelace položky s ostatními blízké nule, inverze může být zbytečná. Záleží i na absolutní hodnotě.