DATASET ACTIVATE DataSet5.

ONEWAY FindTime LocateMinMax CompareValues CompareRanges BY VisType /STATISTICS DESCRIPTIVES /MISSING ANALYSIS /POSTHOC=BONFERRONI ALPHA(0.0125).

Oneway ANOVA - Exp2 - AC

Notes

Output Created		26-AUG-2020 10:11:
Comments		
Input	Data	/Users/niklas/Document s/Doktorandhandlednin g/Kahin/radvis/statistik/ exp2_ac.sav
	Active Dataset	DataSet5
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	153
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY FindTime LocateMinMax CompareValues CompareRanges BY VisType /STATISTICS DESCRIPTIVES /MISSING ANALYSIS /POSTHOC=BONFERRO NI ALPHA(0.0125).
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

 $\label{localization} $$[DataSet5] / Users/niklas/Documents/Doktorandhandledning/Kahin/radvis/statistik/exp2_a c.sav$

Descriptives

						95% Confidence
		N	Mean	Std. Deviation	Std. Error	Lower Bound
FindTime	Ovr	51	.9882	.03254	.00456	.9791
	Lay	51	.9961	.01960	.00275	.9906
	Ros	51	.5902	.43784	.06131	.4671
	Total	153	.8582	.31573	.02553	.8077
LocateMinMax	Ovr	51	.9314	.12551	.01757	.8961
	Lay	51	.9412	.09901	.01386	.9133
	Ros	51	.9837	.06014	.00842	.9667
	Total	153	.9521	.10057	.00813	.9360
CompareValues	Ovr	51	.8137	.26383	.03694	.7395
	Lay	51	.8137	.29935	.04192	.7295
	Ros	51	.6569	.32389	.04535	.5658
	Total	153	.7614	.30395	.02457	.7129
CompareRanges	Ovr	51	.9118	.13480	.01888	.8739
	Lay	51	.9020	.13407	.01877	.8643
	Ros	51	.9150	.11725	.01642	.8821
	Total	153	.9096	.12823	.01037	.8891

Descriptives

		95% Confidence Interval for		
		Upper Bound	Minimum	Maximum
FindTime	Ovr	.9974	.90	1.00
	Lay	1.0016	.90	1.00
	Ros	.7133	.00	1.00
	Total	.9086	.00	1.00
LocateMinMax	Ovr	.9667	.50	1.00
	Lay	.9690	.67	1.00
	Ros	1.0006	.67	1.00
	Total	.9681	.50	1.00
CompareValues	Ovr	.8879	.00	1.00
	Lay	.8979	.00	1.00
	Ros	.7480	.00	1.00
	Total	.8100	.00	1.00
CompareRanges	Ovr	.9497	.50	1.00
	Lay	.9397	.50	1.00
	Ros	.9480	.67	1.00
	Total	.9301	.50	1.00

ANOVA

		Sum of Squares	df	Mean Square	F
FindTime	Between Groups	5.495	2	2.748	42.675
	Within Groups	9.657	150	.064	
	Total	15.152	152		
LocateMinMax	Between Groups	.079	2	.039	4.052
	Within Groups	1.459	150	.010	
	Total	1.537	152		
CompareValues	Between Groups	.837	2	.418	4.751
	Within Groups	13.206	150	.088	
	Total	14.042	152		
CompareRanges	Between Groups	.005	2	.002	.142
	Within Groups	2.495	150	.017	
	Total	2.499	152		

ANOVA

		Sig.
FindTime	Between Groups	.000
	Within Groups	
	Total	
LocateMinMax	Between Groups	.019
	Within Groups	
	Total	
CompareValues	Between Groups	.010
	Within Groups	
	Total	
CompareRanges	Between Groups	.868
	Within Groups	
	Total	

Post Hoc Tests

Bonferroni

Dependent Variable	(I) VisType	(J) VisType	Mean Difference (I-J)	Std. Error	Sig.
FindTime	Ovr	Lay	00784	.05025	1.000
T III OT III O	011	Ros	.39804*	.05025	.000
	Lov	Ovr	.00784	.05025	1.000
	Lay		.40588*		
		Ros		.05025	.000
	Ros	Ovr	39804*	.05025	.000
		Lay	40588 [*]	.05025	.000
LocateMinMax	Ovr	Lay	00980	.01953	1.000
		Ros	05229	.01953	.025
	Lay	Ovr	.00980	.01953	1.000
		Ros	04248	.01953	.093
	Ros	Ovr	.05229	.01953	.025
		Lay	.04248	.01953	.093
CompareValues	Ovr	Lay	.00000	.05876	1.000
		Ros	.15686	.05876	.025
	Lay	Ovr	.00000	.05876	1.000
		Ros	.15686	.05876	.025
	Ros	Ovr	15686	.05876	.025
		Lay	15686	.05876	.025
CompareRanges	Ovr	Lay	.00980	.02554	1.000
		Ros	00327	.02554	1.000
	Lay	Ovr	00980	.02554	1.000
		Ros	01307	.02554	1.000
	Ros	Ovr	.00327	.02554	1.000
		Lay	.01307	.02554	1.000

Bonferroni

Bomerion				
			98.75% Confi	dence Interval
Dependent Variable	(I) VisType	(J) VisType	Lower Bound	Upper Bound
FindTime	Ovr	Lay	1541	.1384
		Ros	.2518	.5443
	Lay	Ovr	1384	.1541
		Ros	.2597	.5521
	Ros	Ovr	5443	2518
		Lay	5521	2597
LocateMinMax	Ovr	Lay	0666	.0470
		Ros	1091	.0045
	Lay	Ovr	0470	.0666
		Ros	0993	.0143
	Ros	Ovr	0045	.1091
		Lay	0143	.0993
CompareValues	Ovr	Lay	1710	.1710
		Ros	0141	.3278
	Lay	Ovr	1710	.1710
		Ros	0141	.3278
	Ros	Ovr	3278	.0141
		Lay	3278	.0141
CompareRanges	Ovr	Lay	0645	.0841
		Ros	0776	.0710
	Lay	Ovr	0841	.0645
		Ros	0874	.0612
	Ros	Ovr	0710	.0776
		Lay	0612	.0874

^{*.} The mean difference is significant at the 0.0125 level.

GRAPH

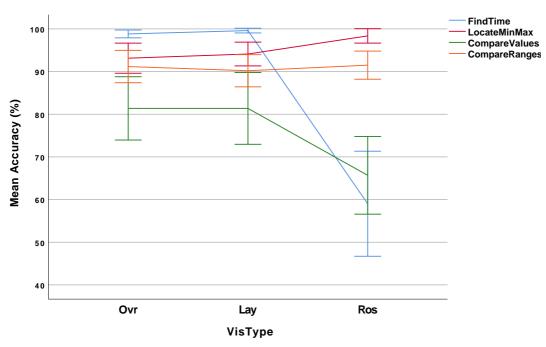
/LINE(MULTIPLE) = MEAN(FindTime) MEAN(LocateMinMax) MEAN(CompareValues) MEAN(CompareR anges) BY
VisType

VisType /MISSING=LISTWISE /INTERVAL CI(95.0).

Graph

Notes

Output Crea	ated	26-AUG-2020 10:13:
Comments		
Input	Data	/Users/niklas/Document s/Doktorandhandlednin g/Kahin/radvis/statistik/ exp2_ac.sav
	Active Dataset	DataSet5
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	153
Syntax		GRAPH /LINE(MULTIPLE) =MEAN(FindTime) MEAN (LocateMinMax) MEAN (CompareValues) MEAN (CompareRanges) BY VisType /MISSING=LISTWISE /INTERVAL CI(95.0).
Resources	Processor Time	00:00:00.15
	Elapsed Time	00:00:00.00



Error bars: 95% CI

DATASET ACTIVATE DataSet6.

ONEWAY FindTime LocateMinMax CompareValues CompareRanges BY VisType /STATISTICS DESCRIPTIVES /MISSING ANALYSIS

Oneway ANOVA - Exp2 - CT

Notes

Output Created		26-AUG-2020 10:16:
Comments		
Input	Data	/Users/niklas/Document s/Doktorandhandlednin g/Kahin/radvis/statistik/ exp2_ct.sav
	Active Dataset	DataSet6
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	153
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY FindTime LocateMinMax CompareValues CompareRanges BY VisType /STATISTICS DESCRIPTIVES /MISSING ANALYSIS /POSTHOC=BONFERRO NI ALPHA(0.0125).
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

 $[DataSet6] \ / Users/niklas/Documents/Doktorandhandledning/Kahin/radvis/statistik/exp2_c t.sav$

Descriptives

						95% Confidence
		N	Mean	Std. Deviation	Std. Error	Lower Bound
FindTime	Ovr	51	4.3217	1.70216	.23835	3.8429
	Lay	51	3.2180	1.02510	.14354	2.9296
	Ros	51	5.2451	2.35385	.32961	4.5831
	Total	153	4.2616	1.95257	.15786	3.9497
LocateMinMax	Ovr	51	7.2870	3.55557	.49788	6.2870
	Lay	51	6.8939	3.21263	.44986	5.9903
	Ros	51	5.6994	2.34740	.32870	5.0392
	Total	153	6.6268	3.13449	.25341	6.1261
CompareValues	Ovr	51	10.1136	7.48131	1.04759	8.0095
	Lay	51	14.5212	7.12304	.99743	12.5179
	Ros	51	13.9326	7.35291	1.02961	11.8645
	Total	153	12.8558	7.53183	.60891	11.6528
CompareRanges	Ovr	51	9.5839	6.06888	.84981	7.8770
	Lay	51	10.0983	5.42742	.75999	8.5718
	Ros	51	8.4883	3.98094	.55744	7.3686
	Total	153	9.3901	5.24139	.42374	8.5530

Descriptives

		95% Confidence Interval for		
		Upper Bound	Minimum	Maximum
FindTime	Ovr	4.8004	2.42	13.47
	Lay	3.5063	1.84	6.53
	Ros	5.9071	2.61	12.94
	Total	4.5735	1.84	13.47
LocateMinMax	Ovr	8.2871	2.69	22.08
	Lay	7.7975	2.49	22.79
	Ros	6.3596	1.90	12.28
	Total	7.1274	1.90	22.79
CompareValues	Ovr	12.2178	3.44	44.16
	Lay	16.5246	5.10	35.89
	Ros	16.0006	3.81	34.50
	Total	14.0588	3.44	44.16
CompareRanges	Ovr	11.2908	3.77	33.38
	Lay	11.6248	3.52	24.83
	Ros	9.6079	3.51	22.50
	Total	10.2273	3.51	33.38

ANOVA

		Sum of Squares	df	Mean Square	F
FindTime	Between Groups	105.066	2	52.533	16.609
	Within Groups	474.440	150	3.163	
	Total	579.506	152		
LocateMinMax	Between Groups	69.735	2	34.867	3.674
	Within Groups	1423.667	150	9.491	
	Total	1493.402	152		
CompareValues	Between Groups	584.081	2	292.041	5.449
	Within Groups	8038.648	150	53.591	
	Total	8622.730	152		
CompareRanges	Between Groups	68.969	2	34.485	1.260
	Within Groups	4106.803	150	27.379	
	Total	4175.772	152		

ANOVA

		Sig.
FindTime	Between Groups	.000
	Within Groups	
	Total	
LocateMinMax	Between Groups	.028
	Within Groups	
	Total	
CompareValues	Between Groups	.005
	Within Groups	
	Total	
CompareRanges	Between Groups	.287
	Within Groups	
	Total	

Post Hoc Tests

Bonferroni

			Mean	Std. Error				
-	Dependent Variable (I) VisType		(J) VisType Difference (I-J) Lay 1.10372*		Sig.			
FindTime	ndTime Ovr		1.10372	.35219	.006			
		Ros	92345	.35219	.029			
	Lay Ovr		-1.10372 [*]	.35219	.006			
		Ros	-2.02717 [*]	.35219	.000			
	Ros	Ovr	.92345	.35219	.029			
		Lay	2.02717*	.35219	.000			
LocateMinMax	Ovr	Lay	.39315	.61008	1.000			
		Ros	1.58765	.61008	.031			
	Lay	Ovr	39315	.61008	1.000			
		Ros	1.19451	.61008	.156			
	Ros	Ovr	-1.58765	.61008	.031			
		Lay	-1.19451	.61008	.156			
CompareValues	s Ovr	Lay	-4.40761 [*]	1.44969	.008			
		Ros	-3.81892	1.44969	.028			
	Lay	Ovr	4.40761 *	1.44969	.008			
		Ros	.58869	1.44969	1.000			
	Ros	Ovr	3.81892	1.44969	.028			
		Lay	58869	58869 1.44969				
CompareRanges	Ovr	Lay	51441	1.03618	1.000			
		Ros	1.09558	1.03618	.876			
	Lay	Ovr	.51441	1.03618	1.000			
		Ros	1.61000	1.03618	.367			
	Ros	Ovr	-1.09558 1.03	1.03618	.876			
		Lay	-1.61000	1.03618	.367			

Bonferroni

Bomenom								
			98.75% Confi	dence Interval				
Dependent Variable	(I) VisType	(J) VisType	Lower Bound	Upper Bound				
FindTime	Ovr Lay		.0789	2.1285				
		Ros	-1.9483	.1014				
	Lay	Ovr	-2.1285	0789				
		Ros	-3.0520	-1.0023				
	Ros Ovr		1014	1.9483				
		Lay	1.0023	3.0520				
LocateMinMax	Ovr	Lay	-1.3821	2.1684				
		Ros	1876	3.3629				
	Lay	Ovr	-2.1684	1.3821				
		Ros	5808	2.9698				
	Ros	Ovr	-3.3629	.1876				
		Lay	-2.9698	.5808				
CompareValues	Ovr	Lay	-8.6260	1892				
	Ros		-8.0373	.3995				
	Lay	Ovr	.1892	8.6260				
		Ros	-3.6297	4.8071				
	Ros	Ovr	3995	8.0373				
		Lay	-4.8071	3.6297				
CompareRanges	Ovr	Lay	-3.5296	2.5007				
		Ros	-1.9196	4.1107				
	Lay	Ovr	-2.5007	3.5296				
		Ros	-1.4052	4.6252				
	Ros		-4.1107	1.9196				
		Lay	-4.6252	1.4052				

^{*.} The mean difference is significant at the 0.0125 level.

GRAPH

VisType
/MISSING=LISTWISE
/INTERVAL CI(95.0).

Graph

Notes

	Resources	Syntax						Input	Comments	Output Created
Elapsed Time	Processor Time		N of Rows in Working Data File	Split File	Weight	Filter	Active Dataset	Data		ited
00:00:00.00	00:00:00.14	GRAPH /LINE(MULTIPLE) =MEAN(FindTime) MEAN (LocateMinMax) MEAN (CompareValues) MEAN (CompareRanges) BY VisType /MISSING=LISTWISE /INTERVAL CI(95.0).	153	<none></none>	<none></none>	<none></none>	DataSet6	/Users/niklas/Document s/Doktorandhandlednin g/Kahin/radvis/statistik/ exp2_ct.sav		26-AUG-2020 10:17:

