

Facets 3.64.0 Enhancements and Bug Fixes - June 2008: <http://www.winsteps.com/>

Output Tables

Table 7 Measure Table

1. Table 7:  
Totalscore=yes  
make the default  
  
and one-character wider score  
column.

Table 7.1.1 Children Measurement Report (arranged by mN).

Total Score	Total Count	Obsvd Average	Fair-M Average	Model Measure	Infit S.E.	Outfit MnSq	Estim. ZStd	Corr. Discrm	Nu Children				
14	18	.8	.98	5.74	.94	1.95	1.6	.89	2.4	-.05	.61	27	Girl
14	18	.8	.98	5.74	.94	.96	.0	.39	2.3	1.12	.66	30	Girl
13	18	.7	.95	4.85	.95	.36	-1.4	.15	1.2	1.66	.78	15	Boy
12	18	.6	.87	3.93	.98	1.61	1.1	.67	.8	.59	.77	5	Boy
12	18	.6	.87	3.93	.98	.66	-.5	.22	.6	1.37	.84	6	Boy
12	18	.6	.87	3.93	.98	1.75	1.3	.71	.8	.50	.76	14	Boy
12	18	.6	.87	3.93	.98	.52	-.9	.18	.5	1.46	.85	31	Girl
11	18	.6	.71	2.90	1.06	.99	.2	.32	.1	1.11	.88	9	Boy
11	18	.6	.71	2.90	1.06	.39	-1.0	.13	.0	1.43	.92	10	Boy
11	18	.6	.71	2.90	1.06	.99	.2	.32	.1	1.11	.88	11	Boy
11	18	.6	.71	2.90	1.06	.39	-1.0	.13	.0	1.43	.92	19	Girl

2. Table 7:  
New default is:  
Pt-biserial correlation = Measure  
  
Other options  
Pt-biserial correlation = Yes  
Pt-biserial correlation = Include  
Pt-biserial correlation = No

In Table 7: Pt-biserial = Measure

Correlation	PtMea	PtExp	Nu Children
.60	.68	.27	Girl
.69	.68	.30	Girl
.81	.75	.15	Boy
.78	.81	.05	Boy

This shows the point-measure (PtMea) and its expected value (PtExp).

3. Table 7:  
Show decimals due to weighting in  
Models= specifications

Table 7.1.1 Teams Measurement Report

Total Score	Total Count	Obsvd Average	Fair-M Average	Me
77.5	7	11.1	13.65	
77.5	7	11.1	13.52	
77	7	11.0	13.24	
77	7	11.0	11.93	

4. Table 7 revised format  
"Corr." for "Correlation" with Point-Biserial.

Table 7.1.1 Children Measurement Report (arranged by mN).

Total Score	Total Count	Obsvd Average	Fair-M Average	Model Measure	Infit S.E.	Outfit MnSq	Estim. ZStd	Corr. PtBis	Nu Children				
14	18	.8	.98	5.74	.94	1.95	1.6	.89	2.4	-.05	.61	27	Girl
14	18	.8	.98	5.74	.94	.96	.0	.39	2.3	1.12	.66	30	Girl
13	18	.7	.95	4.85	.95	.36	-1.4	.15	1.2	1.66	.78	15	Boy
12	18	.6	.87	3.93	.98	1.61	1.1	.67	.8	.59	.77	5	Boy
12	18	.6	.87	3.93	.98	.66	-.5	.22	.6	1.37	.84	6	Boy
12	18	.6	.87	3.93	.98	1.75	1.3	.71	.8	.50	.76	14	Boy
12	18	.6	.87	3.93	.98	.52	-.9	.18	.5	1.46	.85	31	Girl

5. Table 7:  
Report displacements if >0.25\*S.E.

Applies particularly to anchored analyses

Other Tables

6. Table 6:  
Partial credit items:  
Facet name added to scale  
description under rulers

Table 6.0 All Facet Vertical "Rulers".

....

S.1: Model = ?,4,MYDICHOTOMY ; Tapping items: 1-3-4

S.2: Model = ?,5,MYDICHOTOMY ; Tapping items: 2-1-4

S.3: Model = ?,6,MYDICHOTOMY ; Tapping items: 3-4-1

S.4: Model = ?,7,MYDICHOTOMY ; Tapping items: 1-4-3-2

S.5: Model = ?,8,MYDICHOTOMY ; Tapping items: 1-4-2-3

S.6: Model = ?,9,MYDICHOTOMY ; Tapping items: 1-3-2-4

S.7: Model = ?,10,MYDICHOTOMY ; Tapping items: 2-4-3-1

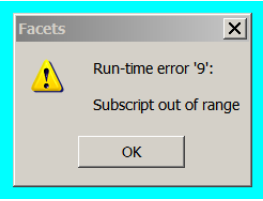
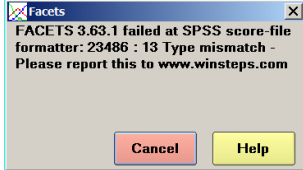
S.8: Model = ?,11,MYDICHOTOMY ; Tapping items: 1-3-1-2-4

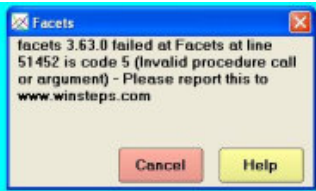
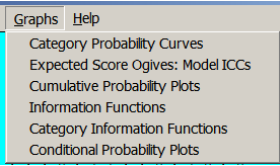
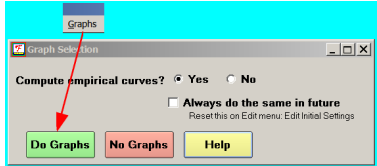
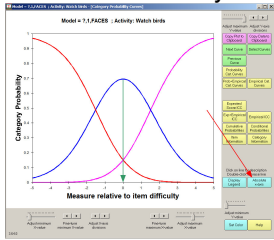
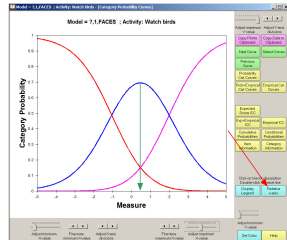
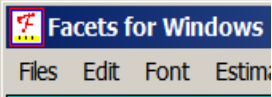
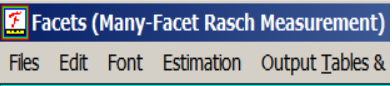
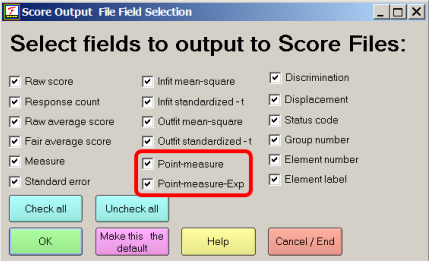
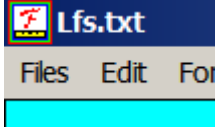
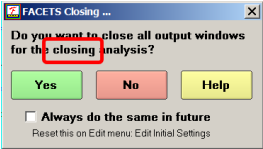
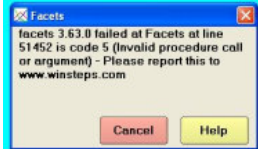
7. Table 13 Bias/interactions:  
show degrees of freedom and  
probabilities for bias sizes.

Table 13.2.1 Bias/Interaction Calibration Report (arranged by mN).

Bias/Interaction: 3. Round, 4. Judges (higher score = higher bias measure)

Obsvd Score	Exp. Score	Obsvd Count	Obs-Exp Average	Bias Size	Model S.E.	t	d.f.	Prob.	Infit MnSq	Outfit MnSq	Round	Judges	measr	N	J	measr	
130	124.7	11	.48	.26	1.31	10	.2184	1.8	1.7	20	2	round 2	.00	7	7	-.35	
137	131.0	12	.50	.34	.24	1.40	11	1.891	.5	.4	2	2	round 2	.00	1	1	-.23
119	115.8	11	.29	.19	.25	.78	10	4.547	.6	.6	7	1	round 1	.00	3	3	-.11
129	126.5	12	.21	.14	.23	.58	11	5.717	.6	.6	11	2	round 2	.00	4	4	.02
124	121.6	12	.20	.13	.23	.55	11	5.930	.7	.7	14	2	round 2	.00	5	5	.28
118	115.8	11	.20	.13	.24	.52	10	6.115	1.3	1.3	6	3	round 3	.00	2	2	.04
126	124.2	12	.15	.10	.23	.42	11	6.796	.9	.9	17	2	round 2	.00	6	6	-.14
119	117.4	11	.15	.10	.25	.40	10	7.002	.7	.7	10	1	round 1	.00	4	4	.02

Score and Measure Output File																																																														
8.	Score file Point measure; Additional column for Point-Measure expected value	<table border="1"> <thead> <tr> <th></th> <th>OutfitZ</th> <th>PtMea</th> <th>PtMeExp</th> <th>Discrim</th> </tr> </thead> <tbody> <tr> <td></td> <td>.00</td> <td>.00</td> <td>.00</td> <td>1.00</td> </tr> <tr> <td></td> <td>.00</td> <td>.00</td> <td>.00</td> <td>1.00</td> </tr> <tr> <td></td> <td>.00</td> <td>.00</td> <td>.00</td> <td>1.00</td> </tr> <tr> <td></td> <td>.83</td> <td>.53</td> <td>.51</td> <td>1.08</td> </tr> <tr> <td></td> <td>.59</td> <td>.55</td> <td>.55</td> <td>1.00</td> </tr> <tr> <td></td> <td>.64</td> <td>.53</td> <td>.57</td> <td>.86</td> </tr> <tr> <td></td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>		OutfitZ	PtMea	PtMeExp	Discrim		.00	.00	.00	1.00		.00	.00	.00	1.00		.00	.00	.00	1.00		.83	.53	.51	1.08		.59	.55	.55	1.00		.64	.53	.57	.86		---	---	---	---																				
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9.	Bug fix: Score file: heading problem	<table border="1"> <thead> <tr> <th colspan="3">Was:</th> <th colspan="3">Now:</th> </tr> <tr> <th>Status</th> <th>Group</th> <th>Numbering items</th> <th>Group</th> <th colspan="2">Number Tapping items</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td>0</td> <td>1 1-4</td> <td>0</td> <td colspan="2">1 1-4</td> </tr> <tr> <td>-2</td> <td>0</td> <td>2 2-3</td> <td>0</td> <td colspan="2"></td> </tr> <tr> <td>-2</td> <td>0</td> <td>3 1-2-4</td> <td>0</td> <td colspan="2">2 2-3</td> </tr> <tr> <td>-1</td> <td>0</td> <td>4 1-3-4</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>-</td> <td>-</td> <td>- - - -</td> <td></td> <td colspan="2"></td> </tr> </tbody> </table>	Was:			Now:			Status	Group	Numbering items	Group	Number Tapping items		-2	0	1 1-4	0	1 1-4		-2	0	2 2-3	0			-2	0	3 1-2-4	0	2 2-3		-1	0	4 1-3-4				-	-	- - - -																					
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10.	Interaction/DIF plotting	Improved performance with Excel 2007																																																												
Specification and Data Files																																																														
11.	Excel 2007 Import .xlsx data files	<pre> Assigning models to 'creativity.xlsx' Importing datafile= C:\Facets\examples\Creativity.xlsx Waiting for imported datafile ... First active data line is: 1 1 1-5a 5 5 3 5 3 Processed as: 1, 1, 1-5a, 5,5,3,5,3 ----- Total lines in data file = 24 Total data lines = 24 </pre>																																																												
12.	Specification file: Models = ? or ?? # or ## allows double symbols to avoid some formatting problems	<p>Facets =3 Models = ?, ?, #, R3 is the same as Models = ??, ??, ##, R3</p>																																																												
Estimation Process																																																														
13.	Estimation: adjustments to allow for more awkward designs and tighter estimation: may produce very slightly different estimates.	<table border="1"> <thead> <tr> <th colspan="3">Was:</th> <th colspan="3">Now:</th> </tr> <tr> <th>Iteration</th> <th>Max. Score Residual Elements</th> <th>Max. Logit Change % Categories Elements Steps</th> <th>Iteration</th> <th>Max. Score Residual Elements</th> <th>Max. Logit Change % Categories Elements Steps</th> </tr> </thead> <tbody> <tr> <td>PROX 1</td> <td>Recount required</td> <td>-4.5711</td> <td>PROX 1</td> <td>Recount required</td> <td>-4.5711</td> </tr> <tr> <td>PROX 2</td> <td>Recount required</td> <td>-3.8658</td> <td>PROX 2</td> <td>Recount required</td> <td>-3.8658</td> </tr> <tr> <td>PROX 3</td> <td></td> <td>-.6844</td> <td>PROX 3</td> <td></td> <td>-.6844</td> </tr> <tr> <td>JMLE 4</td> <td>12.0411 35.4</td> <td>.0000 .8840 .0000</td> <td>JMLE 4</td> <td>12.0411 35.4</td> <td>.0000 .8840 .0000</td> </tr> <tr> <td>JMLE 5</td> <td>9.8921 29.1</td> <td>.0000 .4794 .0000</td> <td>JMLE 5</td> <td>9.8921 29.1</td> <td>.0000 .4794 .0000</td> </tr> <tr> <td>JMLE 39</td> <td>.0709 .4</td> <td>.0000 .0106 .0000</td> <td>JMLE 39</td> <td>.0678 .4</td> <td>.0000 .0114 .0000</td> </tr> <tr> <td>JMLE 39</td> <td>.0659 .4</td> <td>.0000 .0100 .0000</td> <td>JMLE 40</td> <td>.0625 .4</td> <td>.0000 .0108 .0000</td> </tr> <tr> <td></td> <td></td> <td></td> <td>JMLE 41</td> <td>.0532 .3</td> <td>.0000 .0096 .0000</td> </tr> </tbody> </table> <p>Subset connection O.K.</p>	Was:			Now:			Iteration	Max. Score Residual Elements	Max. Logit Change % Categories Elements Steps	Iteration	Max. Score Residual Elements	Max. Logit Change % Categories Elements Steps	PROX 1	Recount required	-4.5711	PROX 1	Recount required	-4.5711	PROX 2	Recount required	-3.8658	PROX 2	Recount required	-3.8658	PROX 3		-.6844	PROX 3		-.6844	JMLE 4	12.0411 35.4	.0000 .8840 .0000	JMLE 4	12.0411 35.4	.0000 .8840 .0000	JMLE 5	9.8921 29.1	.0000 .4794 .0000	JMLE 5	9.8921 29.1	.0000 .4794 .0000	JMLE 39	.0709 .4	.0000 .0106 .0000	JMLE 39	.0678 .4	.0000 .0114 .0000	JMLE 39	.0659 .4	.0000 .0100 .0000	JMLE 40	.0625 .4	.0000 .0108 .0000				JMLE 41	.0532 .3	.0000 .0096 .0000
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14.	Bug fix: Stop estimation if no changes	<i>Applies particularly to anchored analyses</i>																																																												
15.	Bug fix: Interrater= caused crash when pointing to a facet with no elements																																																													
16.	Bug fix: in SPSS output																																																													

17.	Bug fix: Network drive problem		
<b>User Interface</b>			
18.	Change to graphs menu: usually jumps direct to the Graphs screen	<b>Was:</b> 	<b>Now:</b> 
19.	“Relative to item difficulty” and “Absolute on latent trait” plots for partial credit items	<b>Relative to item difficulty:</b> 	<b>Relative to latent trait:</b> 
20.	“Facets for Windows” now “Facets (Many-Facet Rasch Measurement)”	<b>Was:</b> 	<b>Now:</b>  Note also the change in icon
21.	Point-measure expectation added to Scorefile= field selection		
22.	Keep specification file name on screen		
23.	Clarify the “closing” message. Now displayed before the next Facets launches.		
24.	Bug fix: click on “Cancel” crash		

Example Data Files		
25.	SPSS example files: Guilford.sav Creativity.sav Creativity.txt	now agree with Guilford.txt
26.	New data file: Olympics.txt data file of Pairs Figure Skating at the Salt Lake City Olympic games	<pre>Title = "Pairs Skating: Winter Olympics, Facets = 4 ; Facets are Judges, Skat Convergence= 12.0, .001 ; convergence whe Positive = 1, 2, 3, 4 ; all Facets posit Models = ?,?,?,?, ISU ; keep unobserved interae * Rating scale = ISU, R60, Keep 59 = 5.9 ; all observed ratings multipli *  Labels= 1, Judge ; leniency 1= Rus ;Mrs. Marina SABAIA : RUSSIA 2= Chn ;Mr. Jiasheng YANG : CHINA 3= USA ;Mrs. Lynn RUFFMAN : USA</pre>
Help and Documentation		
27.	“Dummy facet” added to special topics  And many other Help file improvements	<p><a href="#">Dummy facets for interactions</a></p> <p>Dummy facets are facets intended only for investigating ir All the elements of a dummy facet are anchored at 0.</p> <p>This feature is useful for <a href="#">dummy</a> facets removing classific These may be used to partition fit, detect bias or select ra</p> <p><b>Specifying dummy facets:</b></p> <pre>Labels= 2=Classifier,A ; anchoring wanted 1=Type A, 0 ; anchor at 0, so doesn't affect measu 2=Type B, 0</pre>