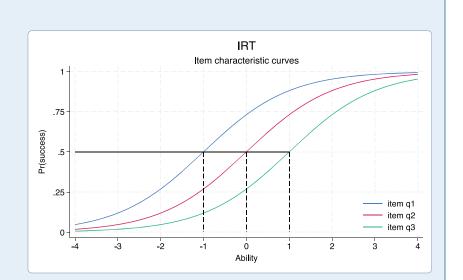


Item response theory (IRT)

- Binary response models
 - One-parameter logistic (1PL)
 - Two-parameter logistic (2PL)
 - Three-parameter logistic (3PL)
- Ordinal response models
 - Graded response
 - Partial credit
 - Rating scale
- Categorical response models
 - Nominal response
- Hybrid models with differing response types
- Multiple-group models
- Graphs
 - Item characteristic curve
 - Test characteristic curve
 - Item information function
 - Test information function
- Differential item functioning (DIF)



Fit the model

1PL model for items q1-q8

. irt 1pl q1-q8

2PL model for q1-q8

. irt 2pl q1-q8

Partial credit model for q9-q15

. irt pcm q9-q15

Rating scale model for q9-q15

. irt rsm q9-q15

Graded response model for q9-q15

. irt grm q9-q15

Hybrid model

. irt (2pl q1-q8) (grm q9-q15)

Multiple-group model

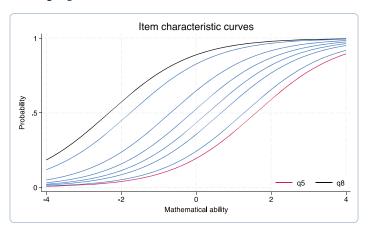
. irt 2pl q1-q8, group(grp)

<					
-0				Dialog ▼ A	lso see ▼ Jum
	1			Number of	f obs = 800
Coefficient	Std. err.	z	P> z	[95% conf.	. interval]
.8926881	.0497697	17.94	0.000	.7951412	.990235
6826695	.1000551	-6.82	0.000	8787739	486565
1177849	.0930488	-1.27	0.206	3001572	.0645875
-1.754276	.1356766	-12.93	0.000	-2.020197	-1.488355
.3101872	.0943281	3.29	0.001	.1253074	.4950669
1.595213	.1288328	12.38	0.000	1.342705	1.847721
.6694488	.0997334	6.71	0.000	.4739748	.8649227
1.279229	.1167531	10.96	0.000	1.050397	1.508061
-2.328184	.1640633	-14.19	0.000	-2.649742	-2.006625
	logistic mode d = -3669.4715 Coefficient .892688168266951177849 -1.754276 .3101872 1.595213 .6694488 1.279229	logistic model d = -3669.4715 Coefficient Std. err8926881 .0497697 6826695 .1000551 1177849 .0930488 -1.754276 .1356766 .3101872 .0943281 1.595213 .1288328 .6694488 .0997334 1.279229 .1167531	logistic model d = -3669.4715 Coefficient Std. err. z .8926881 .0497697 17.94 6826695 .1000551 -6.82 1177849 .0930488 -1.27 -1.754276 .1356766 -12.93 .3101872 .0943281 3.29 1.595213 .1288328 12.38 .6694488 .0997334 6.71 1.279229 .1167531 10.96	1	Dialog A

Graph the results

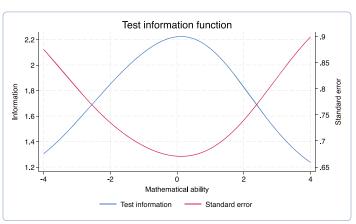
Item characteristic curves

. irtgraph icc ...



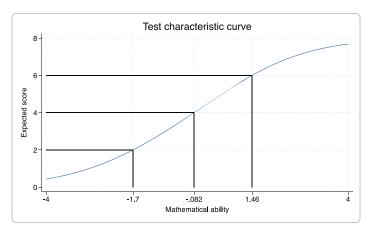
Test information function

. irtgraph tif, se



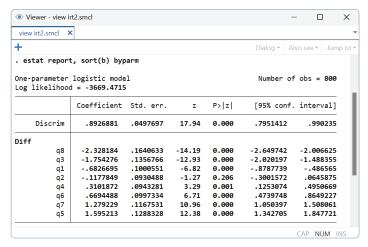
Test characteristic curve

. irtgraph tcc, scorelines(2 4 6)



Explore the results

Sort items by difficulty



Use commands or the IRT Control Panel

