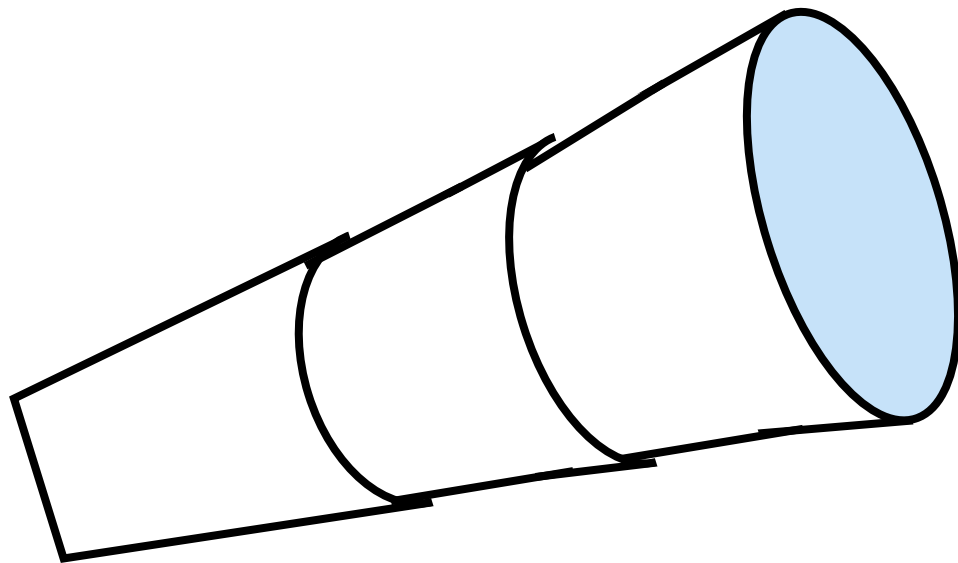


Antonia Bonaccorso, Franziska Klarer

Analysis of questions – an additional quiz report



The vision



Improved quality in
formative and
summative tests



The idea

The users

The plugin

Your turn – questions & suggestions

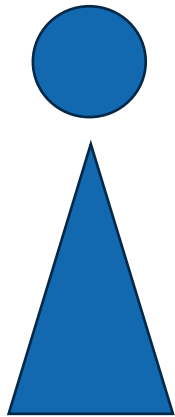
A good start

...but not sufficient

The idea

Every teacher can easily check the quality of questions

The users



one table

Bea Basic

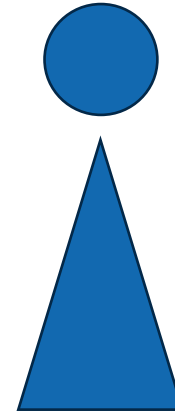
Few exams
Efficient analysis



filter

Ann Advanced

Many exams
Analysis of subsets of
questions



export

Eva Expert

Many exams
In depth statistical
Analysis

The plugin – supported question types

Only closed questions

- Multiple choice
- True/False
- Matching
- Short answer
- Numerical
- Calculated
- Calculated simple
- Drag and drop into text
- Drag and drop markers
- Drag and drop onto image
- Kprime (ETH)
- Multiple True False (ETH)
- Select missing words
- Single Choice (ETH) with limited informative value, since it is not possible for responses that were excluded (crossed out; scoring method Aprime or Subpoints).

The plugin – where to start



Exam Rohdatenexport

Quiz Settings Questions **Results** Question bank More ▾

- Grades ▾
- Grades
- Responses
- Analysis of questions**
- Statistics
- Manual grading
- Group quiz

An additional quiz report

The plugin – structure of the page

Analysis settings – the filter

Download data – the export

Scatterplot of questions – facility vs. discrimination index

Analysis of questions and responses – the table

The plugin – the filter functions

Default Setting:

Quiz Settings Questions **Results** Question bank More ▾

Analysis of questions ▾

Separate groups All participants ▾

Analysis settings

Analyse questions on each student's highest graded attempt ▾

Grade item ? all grade items ▾

Include attempts from ... to ... ?

0 97 0

32,23 (1) 88,00 (2)

Show report

based on grade items (available since 4.4; MDL-74610)

The plugin – the export

Download data

Students' responses



Comma separated values (.csv)



Download

Responses of individual students

Students' comments



Comma separated values (.csv)



Download

Comments aggregated for questions

Analysis of questions and responses



Comma separated values (.csv)



Download

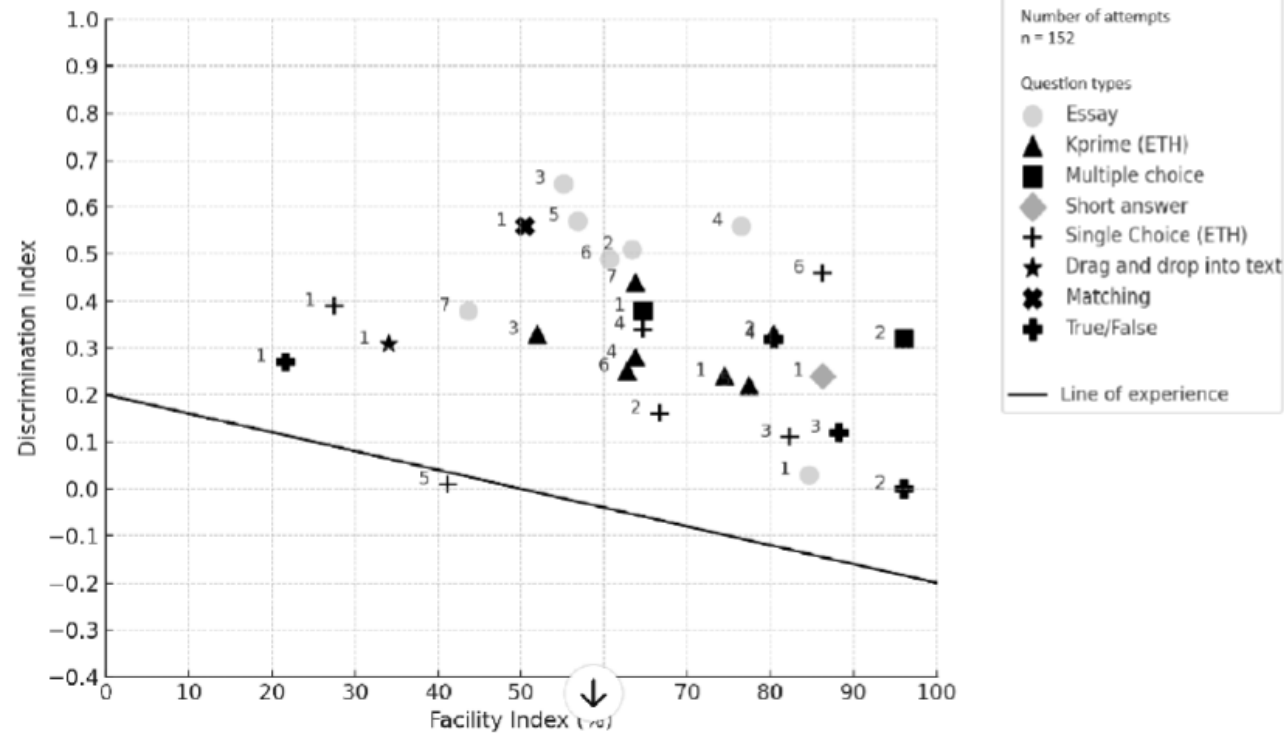
Complete table with frequencies of answer options

Exports in standard Moodle formats: csv, xlsx, HTML table, json, pdf, ods

Comments are collected via qbahviour_deferredfeedbackexplain

The plugin – the scatterplot

Scatter plot of questions: Facility index vs. discrimination index



The closer a question to the line, the more it's quality is low

The plugin – the analysis table

Shows which options receives how many points

Amount of students who chose answer

Q#	Question name	Grade item	Attempts	Facility index	Discrimination index	Review progress	Expand / Collapse	Part of question	Model response	Actual response	Partial credit	Count	Frequency	Frequency graph
1	AfL - SC 1/0 - 1 pt	Competence x	2	0.00%	0.00%	Reviewed	▲							
									Grading and marking students.		0.00%	0	0.00%	
									Monitoring the teaching staff.		0.00%	1	50.00%	
									Supporting the students' learning process.		100.00%	1	50.00%	
									Evaluating school facilities.		0.00%	0	0.00%	
									Ranking students based on performance.		0.00%	0	0.00%	
									[No response]	[No response]	0.00%	0	0.00%	

Question number

Grade item attempts

Review progress

Part of question (an identifier)

Question name

Action menu

Question type

Facility and discrimination index

Options can be expanded / collapsed (default)

options

Graphic showing the frequency: correct, false, missing

The state of the project

Specification ready

Waiting for quotes

Open for suggestions

Planned Moodle version: 4.4 or 4.5

Planned start of development: October 24

questions

&

suggestions