

Development and use of online questionnaires with the open source software QTAFI

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QTAFI – Questions, Tables and Figures

Online QTAFI – an open source software for design and administration of an online questionnaire / online survey as well as data analysis

- Developed by Harald Schomburg
- Technically implemented by Martin Guist

Development of QTAFI Software

■ International Centre for Higher Education Research (INCHER-Kassel), Germany

❖ Development since 2003 → Version 1

❖ 2006 – 2009 → Version 2

❖ Since 2009 → Version 3

Version 3 – especially built for the demands of graduate survey cooperation project in Germany (KOAB)

- Large scale of combined surveys
- Automatable building of questionnaires

Development of QTAFI Software

■ Year 2015 → new version of Online QTAFI 3

Martin Guist (eoda, Germany) &

European Training Foundation (ETF, Italy)



Tracer studies in Palestine, Macedonia & Kyrgyzstan



[Home](#) > [Login default](#)

Login default

Name	<input type="text"/>
Password	<input type="password"/>
<input type="checkbox"/> Remember Me	<input type="button" value="Login"/>

Objectives of QTAFI Development

■ Main objectives of Online-QTAFI development:

- ✓ *Free open source programme* for developing countries with limited financial resources to conduct online surveys
- ✓ *To invest professional expertise into the software:* e.g. creation of online questionnaires, layout, data analysis
- ✓ *Simple creation and management of online questionnaires/surveys*

Survey:

- ✓ Creation and management of online surveys
- ✓ Unlimited number of surveys, participants
- ✓ Open vs closed survey → PINs or URL creation for the purpose of authentication
- ✓ Saved survey, continue later
- ✓ Response rate documentation of the survey

Questionnaire:

- ✓ Creation of an online questionnaire
- ✓ Different question types and filter commands
- ✓ Layout of the questionnaire
- ✓ Multi-lingual software menu/questionnaires
- ✓ Documentation of the questionnaire including variable names and value labels (codebook)
- ✓ Documentation of online questionnaire view

Data:

- ✓ Data analysis within QTAFI – frequency, crosstabs, bar charts
- ✓ Export of analysed data/tables, bar charts into Word-Document & Excel
- ✓ Download of (raw) data for further analysis if necessary

■ Two ways of creating an online questionnaire:

- ✓ Per mouse-click on the web-form within the questionnaire panel
- ✓ Directly within the codebook by means of XML syntax (extensible markup language)

■ QTAFI questionnaire panel:

The screenshot displays the QTAFI questionnaire design interface, divided into three main sections:

- Admin field:** Located at the bottom left, it contains a vertical list of administrative options: "Options" (gear icon), "Export" (download icon), "Import" (upload icon), "Printable" (printer icon), and "Append page" (document with plus icon).
- Questionnaire structure panel:** Located in the middle left, it shows a hierarchical tree structure for the questionnaire pages and sections:
 - Page 1
 - Page 2
 - Head
 - Foot
- Preview screen:** Located on the right, it shows a preview of the questionnaire design. It features a "login" button in the top left, a "Page 1" label in the top right, and a "Login" button in the middle right. Below this, there is a horizontal line and a "Page 2" label in the bottom right.

Red boxes highlight the "Admin field", "Questionnaire structure panel", and "Preview screen" labels.

QTAFI question editor

Question editor / Type: CV

Question Filter

Id Protected

Subject

Number

Text


Subline

Layout Radioboxes ▼

Variable

Categories

Key	Label



OK Cancel

■ Design questionnaire with XML Syntax

General structure of a single choice question

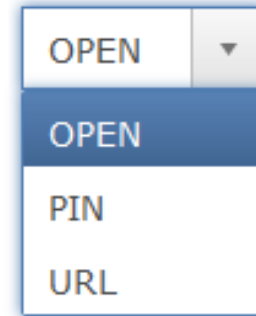
```
<CV id="V032">  
  <subject>Gender</subject>  
  <text>What is your gender?</text>  
  <number>J1</number>  
  <layout inputStyle="radio"/>  
  <value key="1">Male</value>  
  <value key="2">Female</value>  
  <variable name="V032"/>  
</CV>
```

QTAFI - Design Online Survey

Main menu of the software:

- *Create an online questionnaire*
- *Set the authentication mode*
- *Create PINs in case of closed survey*
- *Publish and upload an online questionnaire*

Authentication



■ QTAFI Report panel for data analysis

The screenshot displays the QTAFI Report panel for data analysis, which is divided into three main sections:

- Data analysis panel:** Located on the left, it contains three buttons: "Export Word" (with a download icon), "Export Excel" (with a download icon), and "Printable" (with a printer icon).
- Questionnaire structure panel:** Located in the middle, it shows a list of report sections: Page 1, Page 2, Page 3, Page 4, Page 5, Page 6, Head, and Foot. Each item is preceded by a right-pointing arrow.
- Preview screen:** Located on the right, it is a large empty rectangular area outlined in red, intended for displaying the report's content.

■ QTAFI Report panel for data analysis

VA2 - Which qualification did you achieve at the VET/HE institution? Percent;

Certificate	27,3%
Diploma	54,5%
Other (please specify):	18,2%

Missing cases 21

Total answers 11

QTAFI - Data Analysis - Report properties

Report properties ✕

Title

Layout Chart

Totals Show totals

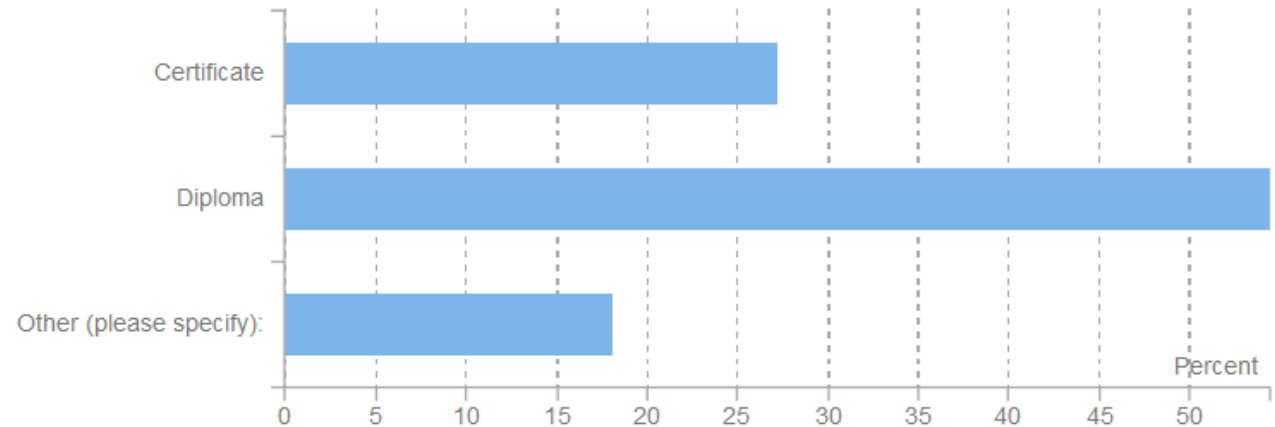
Show Percent
 Count

Break

■ QTAFI Report panel for data analysis

VA2 - Which qualification did you achieve at the VET/HE institution?

Percent;



Missing cases 21

Total answers 11

More information:

QTAFI Handbook

HANDBOOK

Online-QTAFI

**for administration of online survey and
online questionnaires**



Thank you for your attention!

Version Comparison

Criterion	Version 1	Version 2	Version 3
Date	2003-2006	2006-2009	since 2009
Codebook	MS-Word; Questions stored in a database	XML-Document	XML-Document
Server-side	PHP, MySQL	PHP, MySQL	Java-Webserver, MySQL
Client-side, administration	Browser	QTAFI-Client (Java)	Browser, QMS (Java Client)
Conducted surveys	< 50	> 200	> 800