

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

Tamara Arutyunants,
INCHER-Kassel, University of Kassel

26 November 2015
International Conference EXLIMA, Bali, Indonesia



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)
- ✓ Online and print preview of questionnaire

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. On the left, there is an 'Admin field' containing a vertical menu with the following options: Options (gear icon), Export (download icon), Import (upload icon), Printable (printer icon), Append page (document with plus icon), Questions (speech bubble icon), Advanced components (hamburger menu icon), Library (book icon), and Trash (trash can icon). To the right of the admin field is the 'Questionnaire structure panel', which shows a tree view of the questionnaire structure: Page 1 (expanded), Page 2, Head, and Foot (expanded). The main area on the right is the 'Preview screen', which 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. A red box labeled 'Admin field' is positioned at the bottom left of the interface. A red box labeled 'Questionnaire structure panel' is positioned in the middle left of the interface. A red box labeled 'Preview screen' is positioned in the middle right of the interface.

Options

Export

Import

Printable

Append page

Questions

Advanced components

Library

Trash

Page 1

Page 2

Head

Foot

login

Page 1

Login

ii

Page 2

Admin field

Questionnaire structure panel

Preview screen

QTAFl 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

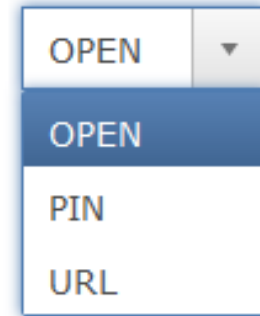
```
<CV id="V032">
  <subject>Gender</subject>
  <text>What is your gender?</text>
  <number>J1</number>
  <layout inputStyle="radio"/>
  <value key="1">Male</value>
  <value key="2">Female</value>
  <variable name="V032"/>
</CV>
```

QTAFI - Design Online Survey

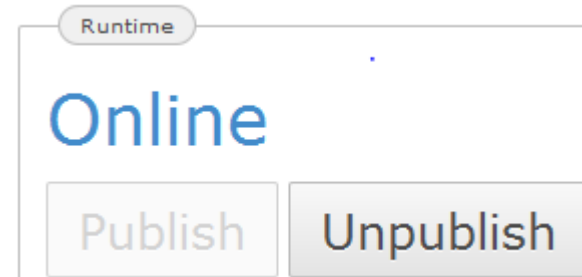
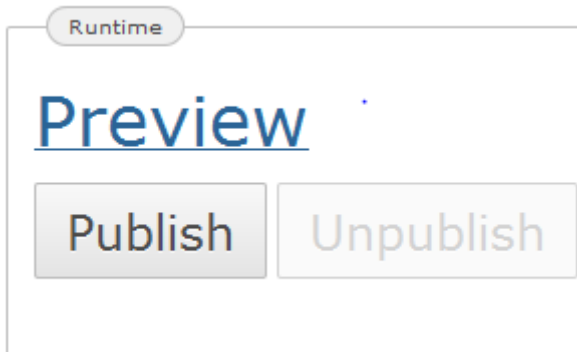
Main menu of the software:

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

Authentication



A dropdown menu for authentication mode. The menu is open, showing four options: OPEN (selected), OPEN, PIN, and URL. The selected 'OPEN' option is highlighted in a darker blue.



■ 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

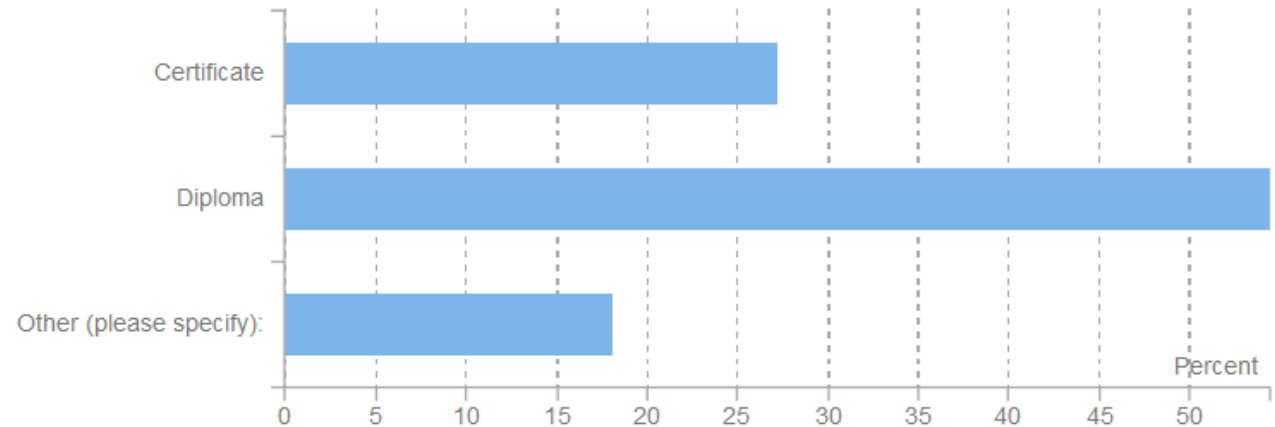
Show Percent
 Count

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**

The screenshot displays the user interface of the QTAFI Handbook. At the top left, there is a logo for 'ETF' (European Training Foundation) with the tagline 'Building together learning for all'. To the right of the logo are links for 'Home' and 'Login'. Below the logo is a login form with fields for 'Name' and 'Password', a 'Remember Me' checkbox, and a 'Login' button. Below the login form, there are two columns of question types, each with a plus icon and a text label:

- Questions**
 - Headline (HL)
 - Single choice (SC)
 - Multiple choice (MC)
 - Ordinal question (OR)
 - Text input (TE)
 - Metric (ME)
 - Date (DATE)
- Advanced components**
 - Image (IMAGE)
 - Navigation button (NavigationButton)
 - Progress bar (ProgressBar)
 - Login (LOGIN)
 - HTML Element (XHTML)
 - Raw HTML element (RAW)

Thank you for your attention!