

SDAPS Creator

Tutorial

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1 Introduction

1.1 SDAPS - Automated Mark Recognition

SDAPS is an Open Source Software created by Benjamin Berg (SDAPS Homepage <http://www.sdaps.org>), that allows an automated mark recognition of filled paper and pencil questionnaires by scanning and processing the scanned filled questionnaires with SDAPS.

SDAPS provides two input file types for the SDAPS questionnaires

- **LaTeX** and
- **Open-/LibreOffice**.

A novice of SDAPS seems to prefer the Office Product for creating a questionnaire.

Even if the Office product seems to be more convenient for editing the questionnaire for novice users of SDAPS, the LaTeX files seem to be the better choice for the source questionnaire file.

On the other hand novice users/authors might not be used to the syntax of LaTeX.

1.2 SDAPS Creator – Authoring Support

SDAPS-Creator is a tool to support users in creating a **SDAPS** questionnaire in LaTeX format. SDAPS Creator is *What You See Is What You Get* (WYSIWYG) environment programmed in Javascript and HTML, that needs just a Firefox Browser to create the Questionnaire. The LaTeX output is generated without the need to edit the LaTeX source files by pressing the export-Button **[Export LaTeX]**.

1.3 SDAPS-Creator & SDAPS

SDAPS-Creator is a support software for **SDAPS** to create the LaTeX-questionnaire, but SDAPS-Creator is not necessary to use SDAPS. Questionnaire authors that are used to LaTeX might want to use SDAPS without the SDAPS-Creator.

If you want to check the features of SDAPS-Creator proceed with the Quickstart section.

2 Quickstart

- a) Install the Firefox Browser, if not already installed.
- b) Test SDAPS-Creator with that Browser, if it meets your requirements
<http://math.uni-landau.de/javascript/SDAPSCreator/index.html>
- c) Download <http://math.uni-landau.de/javascript/SDAPSCreator.zip>

- d) Unzip the ZIP-file in your home directory.
- e) Load the file [index.html](#) in the folder [/SDAPScreator](#) with your Firefox browser.
- f) Load a predefined Questionnaire by pressing the **[Load Questionnaire]** Button in the SDAPScreator Menu (e.g. [questionnaire1demo.html](#)).
- g) Press **[Edit-Structure]** to see how the questionnaire is split into separate Qnode.
- h) Select you on the Qnodes in List and press the **[Edit Title]** Button.
- i) Change the [Q_TITLE](#) in the Edit box of the form and press the **[Update Title]** Button.
- j) Press **[Show Questionnaire]** Button display the alterations in whole questionnaire.

3 Folders

The folder [/SDAPScreator](#) contain several subfolder. This sections explains where to find which files, so that you can modify SDAPS-Creator according to your requirements and constraints.

3.1 /questionnaires

The Folder [/questionnaires](#) contains predefined Questionnaires, that can be loaded.

3.2 /qnodes

The Folder [/qnodes](#) contains predefined Questions and content elements, that can be loaded and added to the questionnaire. All questionnaires consist of list of qnodes.

3.3 /library

The Folder [/library](#) contains all defined classes of the SDAPScreator software package, the Javascript-Classes are imported in the File [index.html](#).

3.4 /frames

The Folder [/frames](#) contains HTML-files, that can be loaded in the main frame of [index.html](#) and the HTML-file triggers a certain processing of the SDAPScreator. The name of the frames indicated the purpose of the HTML-File in the Folder [frames](#)..

Remark [/qnodes](#)-Folder:

The folder contains QNodes in the language English. If the author wants to create questionnaires in a different languages (e.g. German), it is recommended to make a **copy of the folder [/qnodes](#)** in e.g. the folder [/qnodes_DE](#), and the templates of the QNodes in that folder. For the questionnaires in the folder it is determined in the questionnaire-file, from which folder the QNodes are selected, when the authors press **[Add NEW QNode]** Button. This feature allows, that GERMAN questionnaire load predefined QNodes from the

folder [/qnodes_DE](#) instead of. the default folder [/qnodes](#). All folders with QNodes independent of the language must contain a file [_qnodesselector.html](#). (see section about Files SDAPSCreator

4 Files

In general the SDAPS Creator needs files that provides a selection of Options to the users.

- [_questionnaire_loader.html](#): Select a pre-defined Questionnaire for loading.
- [_qnodeselector.html](#): Select a Qnode (e.g. a new Question) from a list of pre-defined QNodes.

To distinguish these SELECTOR-files from other files with the content in the same folder, these SELECTOR-file have a the default name with a leading underscore "[_](#)"

4.1 /questionnaire_loader.html

The file [_questionnaire_loader.html](#) defines which Questionnaires in the folder [/questionnaires/](#) will be listed when the author of the questionnaire.presses the **[Load Questionnaire]** Button.

If you edit this HTML file [_questionnaire_loader.html](#) look for the following lines.

```
//-----  
//-----QUESTIONNAIRE LOADER-----  
//-----
```

After this lines you can add a new questionnaire by using the

```
vQuestionnaire.push(new Array('My Questionnaire Name','myfilename.html'));
```

After reload of the SDAPSCreator in the Browser the questionnaire is ready to loading.

4.2 /qnodes/_qnodeselector.html

The questionnaire consistis of QNodes, These QNodes are stored in the folder [/qnodes](#). The file determines, which QNode Tempates are listed, when the Author presses the **[Add NEW QNode]** Button.

If you edit this HTML file [_qnodeselector.html](#) look for the following lines.

```
//-----  
//-----INSERT Available QNodes for Questionnaire HERE-----  
//-----
```

After this lines you can add a new questionnaire by using the

```
vQNodes.push(new Array("QNode Name", "myqnode"));
```

After reload of the SDAPSCreator in the Browser the questionnaire is ready to loading.

Remark [_qnodeselector.html](#):

First of all It is important, that a Qnode-File [myqnode.html](#) exists in the folder [/qnodes](#). if you the following line to [_qnodeselector.html](#) .

```
vQNodes.push(new Array("QNode Name", "myqnode"));
```

Futhermore it is necessary to remove the filename extension `.html` form the second parameter. This is necessary because `myqnode` is used a name for the Qnode-Type (e.g. `MYQNODE`) as well.