

A brief introduction into the Custom Question-Type Editor



What is this editor for?

For creating, prototyping and administering custom question types

Pre-Requisites and Requirements

Minimum skills and knowledge in: EFS Survey, CSS, HTML5, SMARTY2, JQUERY, JAVASCRIPT

When developing advanced applications: PHP, MySQL, EFS Module Knowledge and whatever you think of

Overview

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The overview page offers the following actions:

- Create a new custom question type from an empty template skeleton
- Import an archived custom questiontype (zip file) into the questiontype editor
- Copy an existing custom questiontype
- Preview an existing custom questiontype
- Delete an existing custom questiontype

Create a custom question type:

+ New -	New	U DED	8
+ New	Name	MyNewQT	
Import STC	Layout version	Responsive layout 2 <	
NAME	Category	single •	
	Cancel	<mark>single</mark> multi matrix	Save
	<u>full</u>	text special	

By clicking the "New"-split-button above the overview list, you open the "New"-dialog. In the opened dialog you have to name your new CQT. In the second step you can choose the layout version. Finally, you have to select a category and click the save button. For the moment there are five categories to choose:

Category	Question-Type's Base Data Model
Single	111
Multi	121
Matrix	311
Text	143
Special	911



Let's start with a single CQT to explain the next steps.

myNewQT and	⊙ § @ 些 前
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After saving the dialog a new entry will occur in the overview. Now, click on the link as shown above. At the beginning the question type contains some empty presets.



The editor

<u>₿</u> + <u>∆</u> ⊡ ⊙ ←	Toolbar (1)			
DESCRIPTION	qt.css			
qt.css 💊	1		*	Here you fill in your question text.
qt.js	3		_	Here you explain how the question has to be
qt.tpl				filled in (optional).
qtinfo.json				C Answer option 1
FILE SELECT BOX				Answer option 2
(2)				Answer option 3
				Answer option 3
RESOURCES	EDIT	OR WINDOW		PREVIEW WINDOW
ALCOUNDED		(3)		
		3		
RESOURCE SELECT BOX				
			Save	



The Toolbar

The editor toolbar contains four icons:

8+	Back to overview
Δ	Upload file
	Open pop-up preview window
0	Toggle preview window to maximize or minimize editor window

😃 Upload dialog

When clicking the upload file icon a new dialog pops up.

		8
Upload file		
index	assets <	
File	Datei auswählen Keine ausgewählt	
#Overwrite file if exists		
#Is preview image 🚯		
		Upload

Here you can manage all files your CQT uses. BTW, when you have access to the server, you can put the files directly to the CQT folder. You can find your currently created custom question type folder by regarding the following rule:

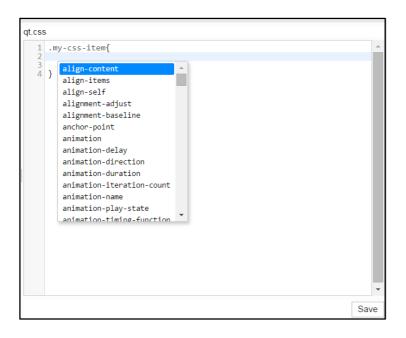
/{rootdir-of-

installation}/uc/custom/tpl_layout_responsive2/questiontypes/single/myNewQT/ Behind the scene



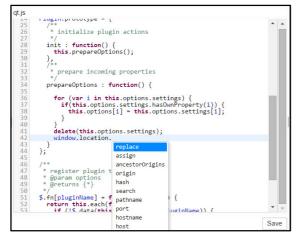
There are different editors managing your code in the editor window:

CSS files are edited with CodeMirror which supports syntax highlighting and gives you hints when dealing with css elements and attributes. The example below gives you an image what you can do with these autocompleting hints in a css environment. But, you need to know what CSS is for. When you do not know what CSS is for, then skip the whole tutorial.



CodeMirror supports JS (Javascript) files by giving you some basic hints for common Javascript browser objects and syntax highlighting the source code.

By pressing Ctrl-Space right after the dot an inline autosuggest pop-up appears. It contains some basic Javascript commands.



6



If you open a Smarty template file the editor will highlight your smarty code. You can use EMMET autocompletion to write html snippets quickly.



What is EMMET? Go to the emmet homepage here...

A brief description of Emmet:

Emmet is a plugin for many popular text editors which greatly improves HTML & CSS workflow:

HTML from CSS: You've already known how to use Emmet abbreviations: its syntax is inspired by CSS selectors.

Dynamic snippets: Each abbreviation is transformed in runtime: just slightly change its

name to get a different result.

Ultra-fast coding: With Emmet you can quickly write a bunch of code, wrap code with new tags, quickly traverse and select important code parts and more!

When clicking on the qtinfo.json file the configuration dialog will open in the editor window.

DESCRIPTION	Categories	Scales It	ems Feature	
qt.css	outegenes		enis reduie	
qt.js	Type 🖿 Cate	egory Text		+ Add
qt.tpl				
qtinfo.json	Options			
		CATEGORY	KATEGORIE	
		Options	Optionen	
RESOURCES				
				Save



Each of the different CQT comes along with a specific setup of this configuration dialog. Behind the scene it is an overlay to the qtinfo.json file. The php description file (not shown in the picture) is being generated from the settings in the json file.

The Configuration Dialog

				The screen contains a tab
Categories	Scales Items	Feature	_	
Type 🖿 Cate	gory Text •	+ Add		section where you switch
Options				between the different
	CATEGORY Options			configuration features:
	Options	opionen	111	The categories tab holds the
				-
				form for defining option headers
				and its fields. An option header is
				a collapsible section in the
				survey's question editor page.
			•	
				▼ Options ⊕
				Color #0008 # Color 2 #000000 # Countries DE CB US NO.BR.RU RO.B #
				Height 340
				Background color ##### Ø
				Background Image
Categories Sca	les Items Feature	Categories Scales Items Feat	ure	Categories Scales Items Feature
Setup items easily by	using the select-box widget's pre-defined	DEFAULT FALLBACK		FEATURE NAME OPTION
data templates or use comma-separated data Scales	the massimport field by inserting tab or	Dimension Dimension		List Group Enable groupings. 🗸 Rotation Enable rotation 🖌
+ CODE EN ((FALLBACK) DE			Hide rotation Hide rotation View Resource: select rotation
	wer option 1 Antwortoption 1 wer option 2 Antwortoption 2			Missing Enable missings FEATURE_COLUMN_BREAK
	wer option 3 Antwortoption 3			Mass Import Enable mass import form
				FEATURE_INSIDE_TITLE FEATURE_CAT_AND_TEXT
1				

The scales tab is for the definition of scale items, in the items tab you change the settings for item lists. And, the feature tab holds the checkboxes for activating features per custom question type.



Adding controls

Categories	Scales	Items	Feature	
Type 🖿 Categ	ory Text	•	+	Add
Options	CATEGOR Options Color Editor Date Transl Resou	box atable Text	onen	

The categories tab contains two areas: The toolbar and the controls section.

By clicking the Category button you can add a new option header to the categories tab.

Category Text Add Options	Categories	Scales	ltems Fe	ature
Options2 CATEGORY KATEGORIE	ype 🖿 Categ	ory Text	٣	+ Add
CATEGORY KATEGORIE	Options			
	Options2			
¥ Options2 Optionen2		CATEGORY	KATEGORIE	
	×	Options2	Optioner	n2

Each option header becomes a collapsible area in the question editor.

The text field control

Options	CATEGORY		KATEGORIE	
	Options		Optionen	
Text	Name:	Value:	 	*
Translation:			 Positive	-
Additional:			 Range Text	
Additional.			Text	

Height	340	

The text field control is defined by 7 single fields:

- Name of control
- Value of control
- GUI Translation default
- GUI Translation fallback
- Additional default
- Addition fallback

This is control is deletable by clicking the x-Button.

The textarea / editor control

Categories	Scales	ltems	Feature	
Type 🖿 Catego	Texta	rea 🔹		+ Add
Options				
	CATEGORY		KATEGORIE	
	Options		Optionen	
Textarea	Name:	Value:		×
				•
Translation:			Text	
Additional:				

The textarea/ editor control is defined by these fields:

- Name of control
- Value of control
- GUI Translation default
- GUI Translation fallback



- Additional default
- Addition fallback

This control is deletable by clicking the x-Button. The difference to the text field control is the missing validator type for the editor field. In the future the editor field will be taken for complex editors being used in the question editor.

The o	color field contro		Backgrour	nd color	#fffff	2
Categories Type Categ Options	Scales Items Featur	e KATEGORIE	+ Add	Name	d control is define of control	ed by 4 fields:
Color Translation	Options Name: Default:	Optionen	*	GUI Tr	anslation default	

This is control is deletable by clicking the x-Button.

The select / radio control

Translation:	EN (Fallback)		DE	
	NAME (FALLBACK)	NAME	VALUE	ACTION
\bigcirc				×
\bigcirc				×
+				

The select /radio control defines a selectbox/radio group widget in the question editor.

Мар	World	T
Mode	 Alpha Beta 	

You have to name the field and its translation properties. This time there also is a plus button of the control, which can be used to add options to the control widget. Each option has two input fields for text translation, a radio field to define the default option and a delete button for removing the option from the list.



Further fieldtypes:

- Date control
- Translatable text control
- Resource control

The scales tab

ategoi	ries	Scales	Items	Feature	
		ily by using th comma-separa		widget's pre-defi	ned data templates or use the massi
Scales	-		•		
+	CODE	EN (FALLB	ACK)		DE
×	1	Germany			Deutschland
×	2	United King	jdom		Vereingtes Königreich
×	3	USA			USA
×	4	Norway			Norwegen
×	5	Brazil			Brasilien
×	6	Russia			Rußland
×	7	Romania		Rumänien	
×	8	Belgium			Belgien
×	9	Netherland	_		Niederlande

The scales tab is self-explanatory. Here you can add items to a scale used by the CQT. To delete an item simply click on the left-hand x-Button. Each scale item consists of three input fields.

Atop there is a select box with some pre-defined scales. Once selected the scale tab will be filled with the scale set behind the selected option.

The items tab

In the items tab you can create entries for your item list. Each category has its special setup for this section. A CQT based on the single category has only a single changeable item.



Category: Single

Categories	Scales	Items	Feature	
DEFAULT				FALLBACK

Category: Matrix

	ories	Scales	ltems	Feature	
				widget's pre-def	ined data templates or use
tab or	comma	-separated data DEFAULT	l.		FALLBACK
×	1	Dimension	1		Dimension 1
×	2	Dimension	2		Dimension 2
× 2 × 3		Dimension	Dimension 3		

The items form works the same way as the scale form works.



The feature tab

Categories	Scales	Items	Feature	
FEATURE NAM List	IE			
Group Item rotation		Enable gro	upings.	 ✓
Rotation Item hiding		Enable rota	ation	✓
Hide rcat Resource: selec Resource: selec		Enable hid	ing of rcats	
Missing Mass Import FEATURE_INS FEATURE_CAT	_	Enable mis Enable ma	sings ss import form element.	

The feature tab offers a variable amount of checkboxes which are used to enable question type features in the question editor. Each category has its specific feature set according to the definition of a question model.