

## EXT: Semantic Templates

Extension Key: nr\_semantic\_templates

Language: en

Keywords: semantic web, templates, forEditors, forAdmins

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The content of this document is related to TYPO3  
- a GNU/GPL CMS/Framework available from [www.typo3.org](http://www.typo3.org)

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# Introduction

## What does it do?

The “*Semantic Templates*” extension displays HTML templates from a *LESS* installation in TYPO3 pages.

*LESS* is a web application to create HTML templates and fill them with data from the semantic web (linked data: RDF, RDFa; and SPARQL query results).

You can use it to display data from i.e. the Wikipedia on your TYPO3 page. Your page updates automatically when the data in Wikipedia change, and with LESS you have a central place to manage the layout of your template. Other people can improve your templates or add new ones, ready for you to use.

Apart from Wikipedia, you can make use of any data that are available as Linked Data (RDF/RDFa) or via SPARQL queries. FOAF profiles of people are a good example for RDF data.

## Screenshots

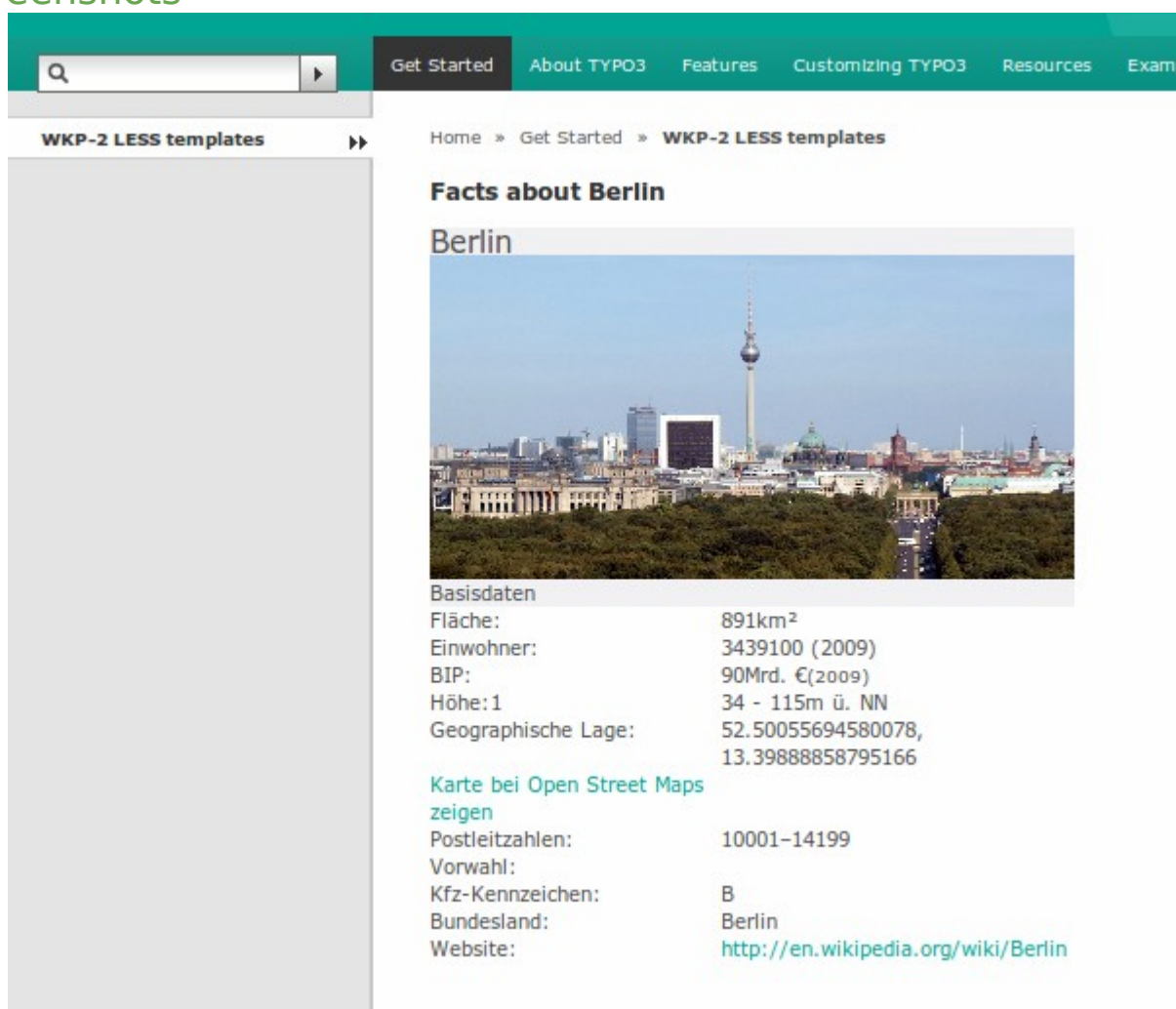



Abbildung 1: Facts from the "Berlin" Wikipedia page on a TYPO3 page

### Edit Page Content "Facts about Berlin" on page "WKP-2 LESS templates"

General
Plugin
Access
Appearance
Behaviour

**Selected Plugin**

 Semantic Template

**Plugin Options**

General Settings
Basic settings

Template name

cw-City Fact Box

Template version

Latest version

Data URI

http://dbpedia.org/resource/Berlin

Enable debug output

☐

Abbildung 2: Editing a semantic template in the TYPO3 backend



**LESS** - The Data Web for Humans

Integrate Linked Data into your website, blog, wiki ...

Welcome cw@netresearch.de

logout

[Browse](#) | [Create New](#)

Template Repository

[About](#) | [Help](#)

**Tags**  
city factbox facts foaf list  
person profile wikipedia  
**RdfClasses**  
yago:CapitalsInEurope yago:CitiesInGermany  
yago:European-CapitalsOfCulture  
yago:Geoclass-CapitalOfAPolitical-Entity

< Previous | 1 | Next >
Sort by: template name

**City Fact Box** by admin | [View](#)  
Usage (last 7 days): 0  
Rate template:  
☆☆☆☆☆ (0 ratings)  
Tags: city factbox wikipedia  
> [Users comments](#) (0)



Abbildung 3: The LESS installation's website



LESS - The Data Web for Humans

Integrate Linked Data into your website, blog, wiki ...

Welcome cw@netresearch.de

logout

[Browse](#) | [Create New](#)

Template Builder

[About](#) | [Help](#)

URI Datasource | [SPARQL query](#)

☐ restrict iteration by

[Update Properties](#)

[Update preview](#)

Template Code

```
<table width="330">
  <tr>
    <th align="center" colspan="2" style="background-
color:#f2f2f4;"><font size="+1">{{dc:title@de}}</font>
    </th>
  </tr>
  <tr>
    <th colspan="2"><a href="{{foaf:depiction}}"></a>
    </th>
  </tr>
  <tr>
```

Properties for data source (ns):

dbpedia-owl:areaTotal^^xsd:double  
dbpedia-owl:elevation^^xsd:double  
dbpedia-owl:leaderParty  
dbpedia-owl:leaderTitle@en  
dbpedia-owl:populationAsOf^^xsd:d  
dbpedia-owl:populationMetro^^xsd:  
dbpedia-owl:populationTotal^^xsd:ir  
dbpedia-owl:postalCode@en  
dbpedia-owl:thumbnail  
foreach dbpedia-owl:wikiPageExtern

User defined parameters:

No parameters defined.

> [Preview \(Popup\)](#)

Details

Name

[Save](#)

[Save As](#)

[Publish](#)

Tags

Description

Caching TTL

Average rating 0 (0 ratings)

> [Users comments](#) (0)

Abbildung 4: Editing a template in LESS

# Users manual

“Semantic Templates” is a simple frontend plugin that you can insert anywhere on a page.

1. In the standard “page” tool, create a new content element
2. Select “Plugins”
3. Click on “Semantic Template”

Now the content element is inserted on the page and can be configured.

1. Visit your LESS installation to get an overview about the available templates. By default, the extension uses <http://less.aksw.org/> so have a look at it.
2. Either pick a template you like or create a new one
3. In the plugin settings, choose your selected template
4. Enter the data URI. If you selected the *city fact box*, try <http://dbpedia.org/resource/Berlin> or <http://dbpedia.org/resource/London>
5. Save and preview your page

If you experience problems, check the “Enable debug output” box and you will get information that hopefully help you solving the issue.

## Using a different LESS installation

By default, *Semantic Templates* uses the official LESS demo installation at <http://less.aksw.org/>

For performance or privacy reasons, you can also obtain the [LESS source code from sourceforge](#) and install it on your own servers.

The LESS URL of each semantic template plugin on a page can be configured on the “Basic settings” tab:

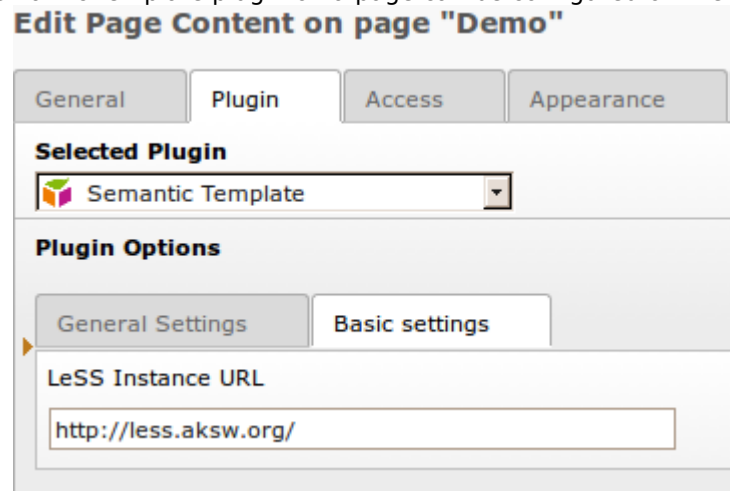


Abbildung 5: Plugin configuration: Basic settings

Since changing that every single time is time consuming, you may define a system wide LESS URL in the extension configuration (via the extension manager):

The screenshot shows the 'Extension Manager' interface. At the top, there are tabs for 'Local Extension List', 'Remote Repository', 'Language Packages', and 'Settings'. Below these is a 'Filter' input field. The main table lists installed extensions:

Extension	Extension Key
News (v3.0.1)	tt_news
Semantic Template Engine Typo3 Extension (v0.2.0)	nr_semantic_templates

Below the table, there are tabs for 'Info', 'Database Update', 'Configuration', 'Files', 'TER upload', and 'Developer Information'. The 'Configuration' tab is active, showing the 'Links and targets' section. It contains two configuration fields:

- Default LESS instance URL** [lessUrl]:
- Default SPARQL endpoint URL** [sparqlEndpoint]:

At the bottom of the configuration section is an 'Update' button.

Abbildung 6: System wide extension configuration

## Caching

Rendered templates are cached for one day on the local server.

If you are logged into the backend or use the `no_cache=1` URL parameter, the cache is not used.

## Links

- [Extension project page on TYPO3 Forge](#) – use it to report bugs and feature requests
- [LESS project page on sourceforge](#)
- [LESS demo installation](#)