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Manual:Semantic MediaWiki/Examples

A [quality version](#) of this page, [approved](#) on *25 February 2021*, was based off this revision.

2 Example: Customer data

A [quality version](#) of this page, [approved](#) on *22 December 2020*, was based off this revision.

In this example for SMW, we create a query for customer data. The collected information is shown at the beginning of each customer page.

Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

Example: Customer data

This requires 4 steps:

1. Defining properties
2. Creating a template
3. Creating a form
4. Creating a category

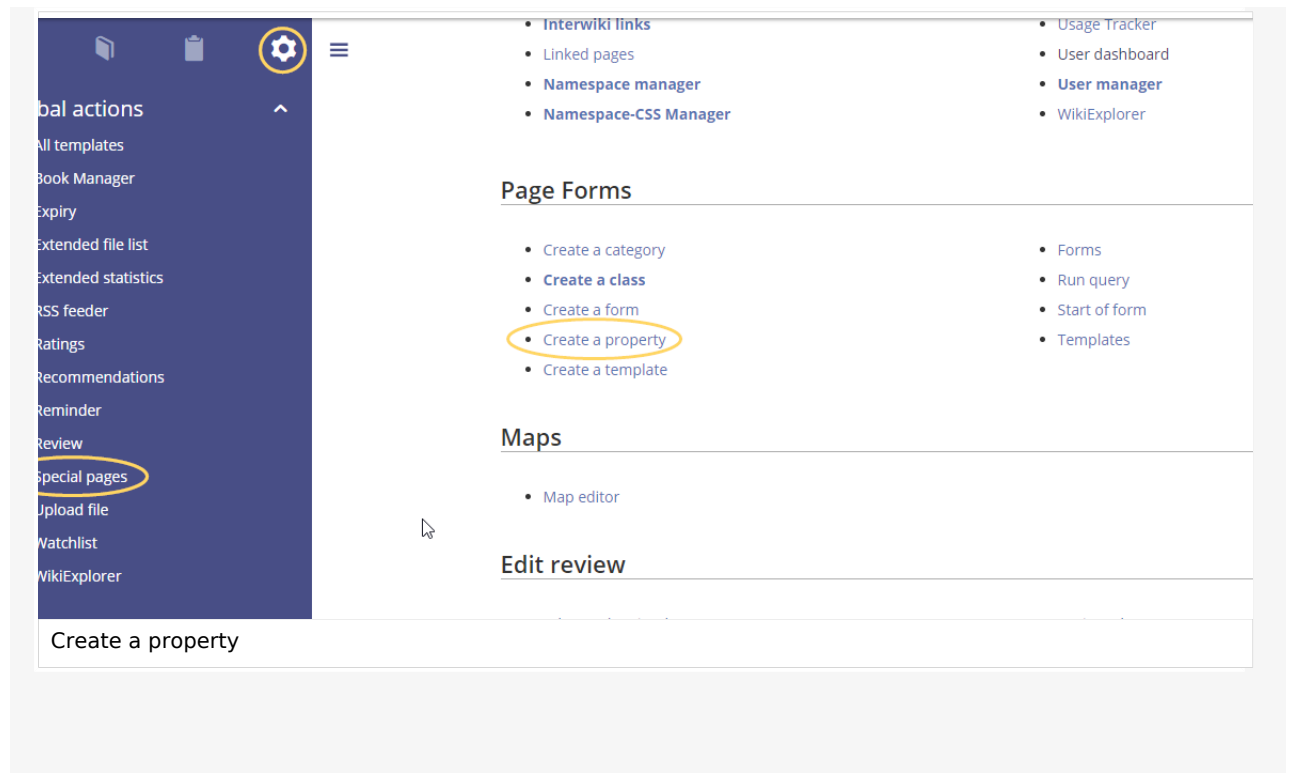
Defining properties

For our customer query, we define 3 properties:

- Location
- Contact person
- Date of first contact

1

Switch to *Special pages* in the navigation menu *Global Actions*. Scroll down to section **Page Forms**.



2

Click *Create a property*. In the form, enter the name and data type for the first property Has location:: - Property name (1): Hat Location - Data type (2): Text

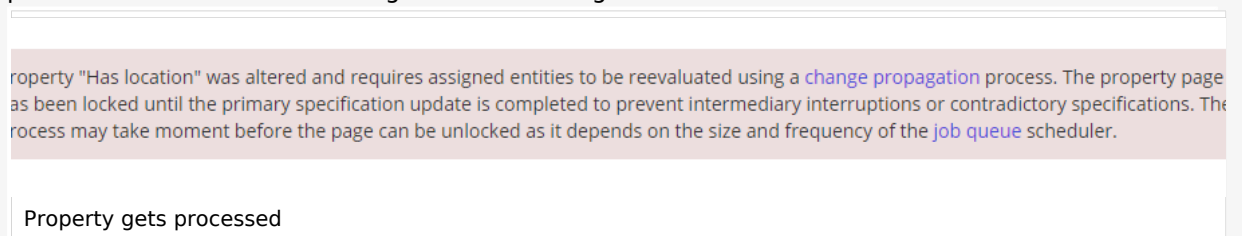
Property name: 1 Type: 2

only allow certain values, enter the list of values, separated by commas (if a value contains a comma, replace it with "\","):

3

Create the first property

Click *Save page* (3). A message box appears that shows you that the property is now being processed in the wiki. You can ignore this message.



For each property, a page is created in the namespace Property in the wiki. This page contains the information about the data type.

3 Switch back to the page Wechseln Sie erneut zur Seite *Spezial:CreateProperty*. Create the property ***Has contact person*** with data type ***Text*** as shown before.

4 Switch back to *Special:CreateProperty*. Create the property ***Has First contact*** with data type ***Date***.

Tip: In your **personal navigation**, you can create a quick link to the Page Forms section of the special pages main page. Just enter the following link: `**[[Special:SpecialPages#Page_Forms]]`

You can review the properties in your wiki by going to the page *Special:Properties*.

SpecialPages: [Properties](#)

Properties

This page lists [properties](#) and their usage counts available for this wiki. For up-to-date count statistics it is recommended that the [property statistics](#) maintenance script is run on a regular basis. For a differentiated view, see the [unused](#) or [wanted properties](#) special pages.

Options

Showing below up to 9 results starting with #1.

View (previous 50 | next 50) (20 | 50 | 100 | 250 | 500)

Display properties that contain:

List of properties

1. Has First contact + [?](#) of type [Date](#) (0 uses) [?](#)
2. Has contact person + [?](#) of type [Text](#) (0 uses) [?](#)
3. Has location + [?](#) of type [Text](#) (0 uses) [?](#)

Special page: [Properties](#)

The necessary properties for data collection are now available. In the next step, we create the template that will be included in our customer pages to display the customer data.

Create the template

Related info

- https://www.semantic-mediawiki.org/wiki/Help:Properties_and_types

Manual:Semantic MediaWiki/Examples/Customer data /Customer page

Location	Berlin
Contact	David Wang
First contact	2020/12/18

2.3 Manual:Semantic MediaWiki/Examples/Customer data /Form

A [quality version](#) of this page, [approved](#) on *22 December 2020*, was based off this revision.

With the page *Special:CreateForm*, we now create the data entry form.

Page Forms

- [Create a category](#)
- [Create a class](#)
- [Create a form](#)
- [Create a property](#)
- [Create a template](#)

- [Forms](#)
- [Run query](#)
- [Start of form](#)
- [Templates](#)

[Create a form](#)

Creating the form

1

On the "Create a form" page, enter a name for your new form. Since we create it for template *Customer data*, we give the form the same name (1). Select the template *Customer data* from the choice menu and click *Add* (2).

Form name (the form is usually given the same name as its main template):
Customer data 1

Add elements

Add template: Customer data Add 2

Select template

2

The customer data fields from the template *Customer data* are automatically integrated in the form. To facilitate the data entry for the date field, change the input type of the field *firstcontact* to *datepicker*. (1) Then, click *Save page* (2).

Field: firstcontact

This field defines the property Has First contact, of type Date.

Form label:
First contact Input type: datepicker 1

Other parameters

Remove template

Add elements

Add template: Archive:ServiceCenter Example Before: At end Add

Add section:
Section name
Before: At end Add section

2
Save page Preview

Selecting the input type

Now the form is available for data entry. It can be found in the namespace *Form*.

Using the form

When we create a new customer page, we can now use the form page to create the page and to automatically include the customer data template in the page. The form page has the name *Form:Customer data*.

1

To create a customer page, enter a page name in the form field (1) and click *Create or edit* (2).

Customer data

Last edited 42 minutes ago by MLR ☆ Watch 🔔 No status information

This is the "Customer data" form. To create a page with this form, enter the page name below; if a page with that name already exists, you will be sent to a form to edit that page.

Hallo Welt GmbH **1** Create or edit **2**

Create a customer page

2

Enter the customer data (1). You can additionally create some free text (2). Click *Save page* after editing the page (3).

Create a customer page

Create Customer data: Hallo Welt GmbH

Location:

Contact person: 1

First contact:

Free text: 2

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Since 2007 Hallo Welt! builds collaborative platforms of knowledge for organisations – especially solutions for knowledge management, online documentation and quality management.

Summary:

This is a minor edit [Watch this page](#)

[Cancel](#)

Dateneingabe während Seitenerstellung

Now you have created a customer page that collects customer data and shows the entered data on the page.

(Pages): [Hallo Welt GmbH](#) Page ▾ Discussion

Customer data

Hallo Welt GmbH

🕒 Last edited one hour ago by MLR
☆ Watch 🗨️ No status information

Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

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Customer page with semantic template

Note: You can [customize the template style](#) later. First, you should integrate the form with the customer pages.

Next step

As the next step, we add the form edit mode option to pages that include the *Customer data* template.

Edit pages in form edit mode

Related info

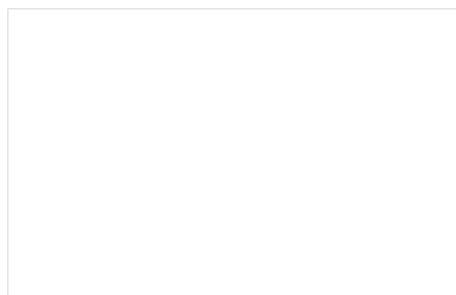
- https://www.mediawiki.org/wiki/Extension:Page_Forms/Quick_start_guide Help page for the extension *PageForms*

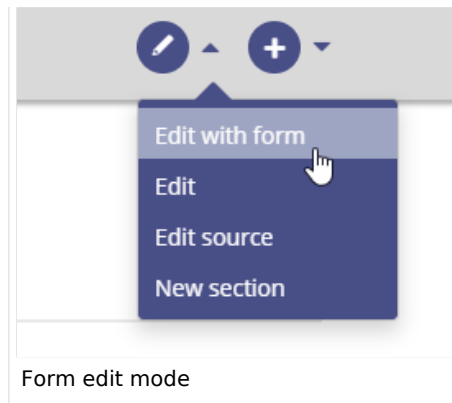
2.4 Integrating the form edit mode

A [quality version](#) of this page, [approved](#) on *7 January 2021*, was based off this revision.

With the page *Special:CreateCategory*, we now connect the category *Customer data* with the form *Customer data*.

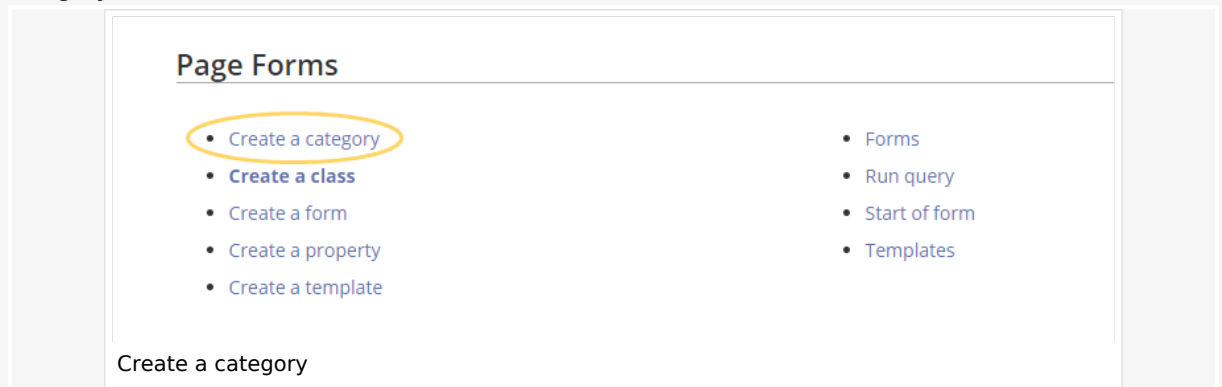
This adds a **form edit link** to all pages that use the **template** *Customer data*. Additionally, it makes it possible to list pages that include customer data all throughout the wiki.





Activating the form edit mode

- 1 Switch again to the page *Special:Special pages*. In the section *Page Forms*, click the link *Create a category*.



- 2 Enter the category name you chose in step "Create template". In our case, this is the category *Customer data* (1). Select the form *Customer data* (2). Click *Save page* (3).

Category name:

Customer data 1

Default form: Customer data 2

Make this a subcategory of another category (optional):

3 Save page

Associate category and form

The category page *Customer data* is now associated with the form *Customer data*.

Category: [Customer data](#) Page ▾ Discussion

🔗 No categories assigned

Customer data ? Help

🕒 Last edited one second ago by MLR ☆ Watch 🗨️ No status information

[Unreviewed pages](#) | [Pending changes](#)

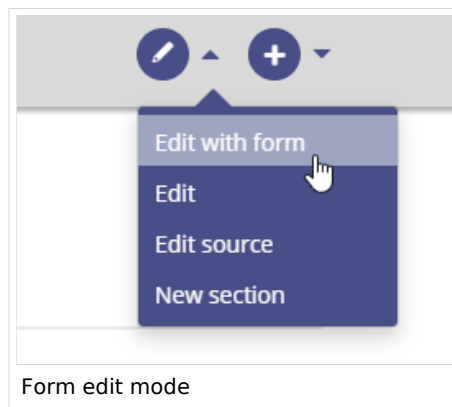
This category uses the form [Customer data](#).

Pages in category "Customer data"

- [Hallo Welt GmbH](#)

Category that is associated with a form

As a result, all pages that contain the template Customer data now have a form edit link available.



Note: If you do not want to use a category to make the "form edit" option available on a page, you can also associate the form with a namespace or simply add the form reference directly to the template. For more information see [the instructions on mediawiki.org](https://www.mediawiki.org/wiki/Manual:Form_edit_mode)

Related info

- [Styling the template](#)
- [Query the collected data](#)
- [Naming conventions for semantic elements](#)

- [Video tutorials for Semantic MediaWiki](#)

4 Semantic data queries

A [quality version](#) of this page, [approved](#) on *22 December 2020*, was based off this revision.

You can query and display the data that you collect in the wiki at at any time on any wiki page.

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2.2 Simple page list	14
3 Adjusting the query	14
3.1 Examples	14
4 Related info	15

"Ask" queries

With the parser function "#ask", we can now use the semantic properties and the category association to show the collected data on our wiki pages.

As an example, we list the pages that collect customer data. You can include this "ask" query on any wiki page:

```
{{#ask:
  [[Category:Customer data]]
  |?Has location
  |?Has contact person
  |?Has First contact
}}
```

This query first defines via the category *Customer data* that only pages within this category should be included in the data query (1).

Then, using the pipe-syntax `|?` we define which property values we want to display (2).

```
{{#ask:|
  [[Category:Customer data]] 1
  |?Has location
  |?Has contact person 2
  |?Has First contact
}}
```

Simple "ask" query

The default results output is in a table format. The page from which the customer data originates is automatically added as a first column (this can be customized as needed).

	Has location	Has contact person	Has First contact
Hallo Welt GmbH	Regensburg	Jane Doe	21 December 2020
Semantic MediaWiki/Examples/Customer data/Custom page	Berlin	David Wang	18 December 2020

Adjusting the output format

The output of the data is very flexible and offers many customizing options. Let's look at some examples.

Table formatting

Output with adjusted table width of 100% (format=broadtable) and with adjusted column labels. The first column also gets a custom label (mainlabel=Customer):

Customer	Location	Contact	Date of first contact
Hallo Welt GmbH	Regensburg	Jane Doe	21 December 2020
Semantic MediaWiki/Examples/Customer data/Customer page	Berlin	David Wang	18 December 2020

Query:

```
{{#ask:
[[Category:Customer data]]
|?Has location = Location
|?Has contact person = Contact
|?Has First contact= Date of first contact
|mainlabel = Customer
|format= broadtable
}}
```

Simple page list

Output of pages that use the template "Customer data" in a list format:

- [Hallo Welt GmbH](#)
- [Semantic MediaWiki/Examples/Customer data/Customer page](#)

Query:

```
{{#ask:
[[Category:Customer data]]
|format= ul
}}
```

Adjusting the query

In semantic queries, results can be filtered by namespaces, categories and semantic attributes.

Examples

The following query shows all results for the namespace *Manual* and the category *Customer data*. The output shows the location of the customers:

```
{{#ask: [[Manual:~]] [[Category:Customer data]]
|?Has location = Location
}}
```

Result:

	Location
Semantic MediaWiki/Examples/Custom data/Custom page	Berlin

The following query shows all results for the namespace *Manual* **and for the namespace (Main) and'** for the category *customer data*. All three selection criteria have to be valid for a page to be included in the results. (Note: The namespace (Main) is referenced as empty prefix (`:+`).

```
{{#ask: [[Manual:+:+|:]] [[Category:Customer data]]
|?Has location = Location
|mainlabel = Customer
}}
```

Result:

Kunde	Location
Hallo Welt GmbH	Regensburg

The following query shows the results from namespace *Manual* and from the category *Customer data*.

```
{{#ask: [[Category:Customer data]] [[Has location::Regensburg]]
|?Has location = Location
|mainlabel = Customer
}}
```

Result:

Customer	Location
Hallo Welt GmbH	Regensburg

Related info

- https://www.semantic-mediawiki.org/wiki/Help:Inline_queries Help page for semantic inline queries

2.2 Create a template

A [quality version](#) of this page, [approved](#) on *22 December 2020*, was based off this revision.

Contents

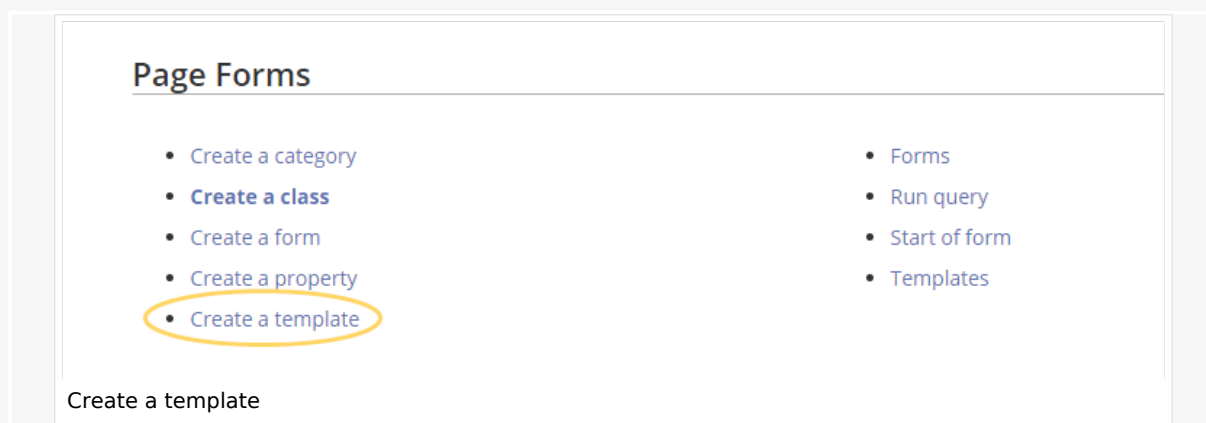
1 Creating the display template	17
2 Including the template on a page	19
3 Next step	20
4 Related info	20

Creating the display template

To create the template, we go to the page *Special:Create template*. On this page, we have access to the properties that we have already created.

1

Like in the previous step ([creating properties](#)), switch to the Page Forms section on the page *Special:SpecialPages*.



2

Define the data fields that you want to use in your template. For each property that you created, you need to have a field in the template.

Template name: **1**

Category defined by template (optional): **2**

Template fields

To have the fields in this template no longer require field names, simply enter the index of each field (e.g. 1, 2, 3, etc.) as the name, instead of an actual name.

Field name: **3** Display label: **4**

Semantic property: **5** Delete

Field holds a list of values

Field name: Display label:

Semantic property: Delete

Field holds a list of values

Field name: Display label:

Semantic property: Delete

Field holds a list of values

6

Create the template

- **Template name (1):** Enter *Customer data* as name for the template.
- **Category (2):** Define a category which will be assigned to all customer pages that use this template. It makes sense to also call this category Customer data.
- **Field name (3):** Create a field name for the property *Has location*. This field name will later be used to connect the template with the data entry form. The name should not contain spaces.
- **Display label (4):** This is the field label that is shown on the customer pages. It can contain spaces.
- **Semantic property (5):** Choose the property *Has location* that you created in the previous step.
- **Add field (6):** Click Add field to create the fields for the properties *Has First contact* and *Has contact person*.

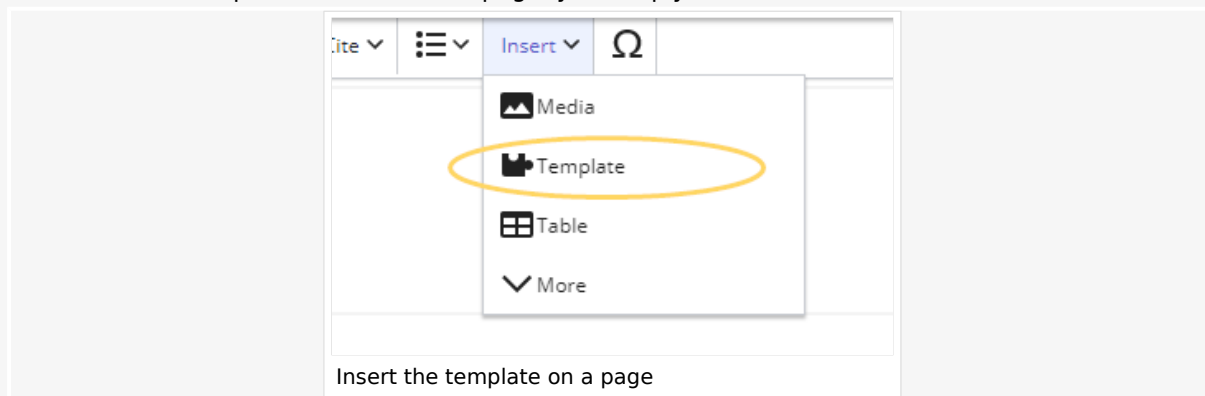
3

Click *Save page* at the end of the page *Seite speichern*.

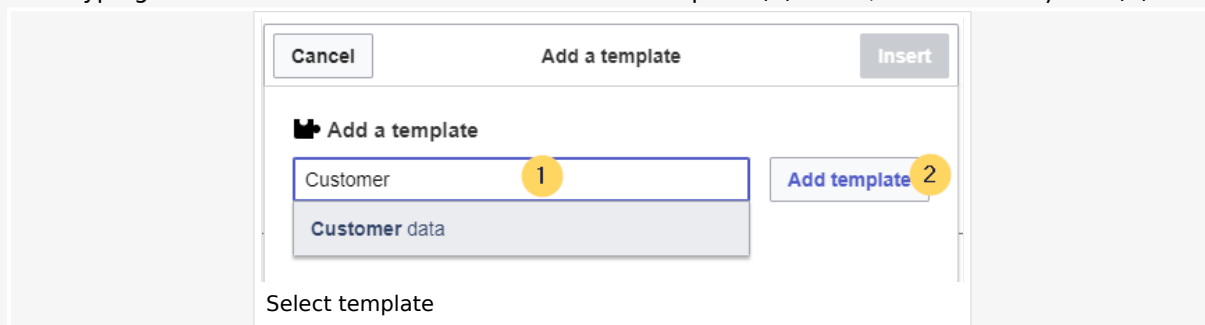
The template is now available and can be viewed in the *Template* namespace. You do not have to edit the template any further at this point.

Including the template on a page

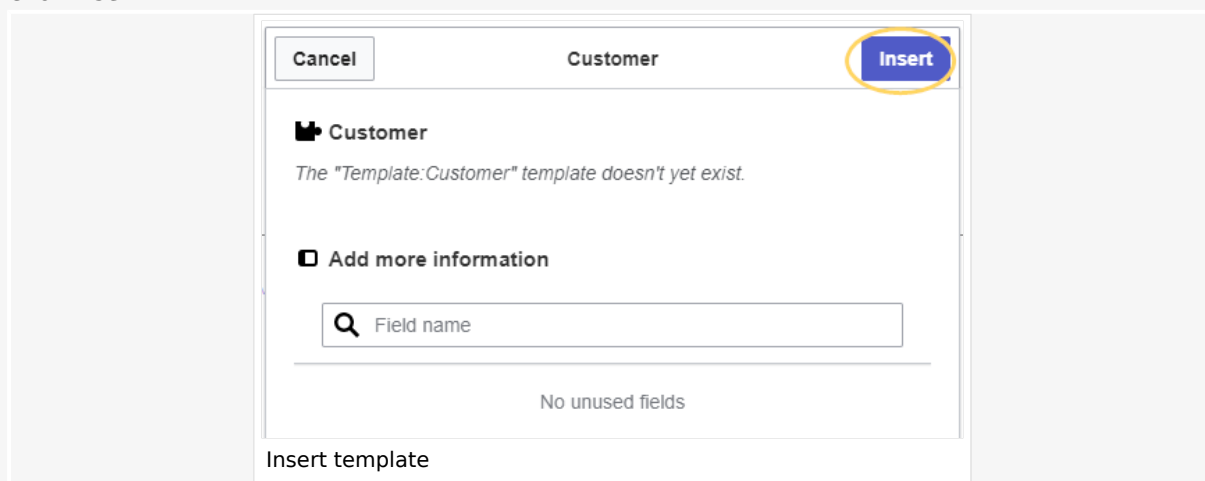
- 1 To include the template on a customer page, you simply add it from the Visual Editor *Insert* menu.



- 2 Start typing the name *Customer data* and select the template (1). Then, click *Add template* (2).



- 3 Click *Insert*.



- 4 Save the page. The template is now included on the page.

Customer page

Last edited 24 seconds ago by MLR ☆ Watch ⓘ No status informatio

Location	
Contact	
irst contact	

← Template "Customer data"

Included template

Next step

Next, we create a form that makes it easy for users to enter the data.

Create a form

Related info

- https://www.semantic-mediawiki.org/wiki/Help:Semantic_templates Help page for semantic templates

3 Manual:Semantic MediaWiki/Examples/Customer data /Template styling

A [quality version](#) of this page, [approved](#) on *22 December 2020*, was based off this revision.

By default, a semantic template that was created with the page *Special:CreateTemplate*, is displayed in a basic table format. Each property/value pair is shown in a new table row. The table width adjusts to the table content.

Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

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Default table of a semantic template

To change the table layout, we can add some styling information to the template.

Adjusting the template styling

To format the table, we create a subpage to the template. It contains the custom template styles. In the following example, we create a variation of the original table with a width of 100%, left-aligned labels and more padding in the table cells.

Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

Customized table styling

1

Create the subpage `styles.css`. For the template `Customer data`, you need to create the page *Template:Customer data/styles.css*.

2

To achieve the shown table styling, add the following code to the new *styles.css*.

```
table.mysmwtable {
    width:100%; /*width of the box/
    margin: 0 0 2em 0; /*cell padding*/
    background-color: #f8f9fa; /*background color for the table*/
    color: #222; /*Textfarbe*/
    border: 1px solid #a2a9b1; /*border*/
    border-collapse: collapse; /*border*/
}
table.mysmwtable > tr > th, table.mysmwtable > * > tr > th {
    background-color: #eaecef; /*background color of the label column*/
    text-align: left; /*alignment of the label column*/
    width:25%;/*width of the label column*/
}
table.mysmwtable > tr > td, table.mysmwtable > * > tr > td {
    background-color: #f8f9fa; /*background-color of the second column*/
}
table.mysmwtable > tr > th, table.mysmwtable > tr > td, table.mysmwtable > * >
tr > th, table.mysmwtable > * > tr > td {
    border: 1px solid #a2a9b1; /*border around cells*/
    padding: 10px; /*cell padding*/
}
form.createbox table.formtable th {
    padding:10px 0; /*distance between form fields*/
}
```

Creating Template:Customer data/styles.css

Manage TemplateData

Information about TemplateData

You have followed a link to a page that does not exist yet. To create the page, start typing in the box below (see the [help page](#) for more info). If you are here by mistake, click your browser's **back** button.

```

1 table.mysmwtable {
2     width:100%; /*width of the box/
3     margin: 0 0 2em 0; /*cell padding*/
4     background-color: #f8f9fa; /*background color for the table*/
5     color: #222; /*Textfarbe*/
6     border: 1px solid #a2a9b1; /*border*/
7     border-collapse: collapse; /*border*/
8 }
9 table.mysmwtable > tr > th, table.mysmwtable > * > tr > th {
10     background-color: #eaecef; /*background color of the label column*/
11     text-align: left; /*alignment of the label column*/
12     width:25%;/*width of the label column*/
13 }
14 table.mysmwtable > tr > td, table.mysmwtable > * > tr > td {
15     background-color: #f8f9fa; /*background-color of the second column*/
16 }
17 table.mysmwtable > tr > th, table.mysmwtable > tr > td, table.mysmwtable > * > tr > th, table.mysmwtable > * > tr > td {
18     border: 1px solid #a2a9b1; /*border around cells*/
19     padding: 10px; /*cell padding*/
20 }

```

Summary:

255

Watch this page

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You are also promising us that you wrote this yourself, or copied it from a public domain or similar free resource (see [Legal:Copyright](#) for details). **Do not submit copyrighted work without permission!**

Create a custom table style

Save the page.

3

Now edit the page *Template:Customer data*.

(1) Add the reference to the page *styles.css* at the beginning of the template. You can copy the following tag:

```
<templatestyles src="Customer_data/styles.css" />
```

(2) Change the name of the css-class used in the table from *wikitable mysmwtable*.

Template:Customer data

```
<templatestyles src="Customer data/styles.css" />
```

1

```
<noinclude>
```

```
This is the "Customer data" template.
```

```
It should be called in the following format:
```

```
<pre>
```

```
{{Customer data
```

```
|location=
```

```
|contactperson=
```

```
|firstcontact=
```

```
}}
```

```
</pre>
```

```
Edit the page to see the template text.
```

```
</noinclude><includeonly>
```

```
{| class="mysmwtable"
```

2

```
! Location
```

```
| [[Has location::{{{location}}}]]
```

```
|-
```

```
! Contact
```

```
| [[Has contact person::{{{contactperson}}}]]
```

Add style tag to the template

Save the changes.

Now you can see the new table styling..

As a variation, you can also define the background color of the table cells. For example, you can create white cell backgrounds. Change the following lines in your *styles.css*:

```
table.mysmwtable > tr > th, table.mysmwtable > * > tr > th {
    background-color: white; /*background color of the label column*/
}
```

sowie

```
table.smwtable > tr > td, table.smwtable > * > tr > td {
    background-color: white; /*Hintergrundfarbe der Wertespalte*/
}
```

Im CSS ändern sich also folgende Zeilen:

```
1 table.mysmwtable {
2   width:100%; /*width of the box/
3   margin: 0 0 2em 0; /*cell padding*/
4   background-color: #f8f9fa; /*background color for the table*/
5   color: #222; /*Textfarbe*/
6   border: 1px solid #a2a9b1; /*border*/
7   border-collapse: collapse; /*border*/
8 }
9 table.mysmwtable > tr > th, table.mysmwtable > * > tr > th {
10  background-color: white; /*background color of the label column*/ 1
11  text-align: left; /*alignment of the label column*/
12  width:25%;/*width of the label column*/
13 }
14 table.mysmwtable > tr > td, table.mysmwtable > * > tr > td {
15  background-color: white; /*background-color of the second column*/ 2
16 }
17 table.mysmwtable > tr > th, table.mysmwtable > tr > td, table.mysmwtable > * > tr > th, table.mysmwtable > * > tr > td {
18  border: 1px solid #a2a9b1; /*border around cells*/
19  padding: 10px; /*cell padding*/
```

White cell backgrounds

Die Zellhintergründe werden entsprechend angepasst.

Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

Display of white table backgrounds

Infobox

You can also format the table as an infobox. An infobox is floating to the left or right of the text flow.

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Location	Regensburg
Contact	Jane Doe
First contact	2020/12/21

Infobox

1

Add the following css-code to the page `Template:Customer_data/styles.css` and save the template. Delete any previous styles for the class `.mysmwtable` to avoid any inheritance problems for the styles:

```
table.mysmwtable {
  float:right; /*right-aligned infobox*/
  width:300px; /*width of the box*/
  margin: 0 0 2em 2em; /*cell padding*/
  background-color: #f8f9fa; /*background color for the table*/
```



```
color: #222; /*Textfarbe*/
border: 1px solid #a2a9b1; /*border*/
border-collapse: collapse; /*border*/
}
table.mysmwtable > tr > th, table.mysmwtable > * > tr > th {
background-color: #eaeaf0; /*background color of the label column*/
text-align: left; /*alignment of the label column*/
}

table.mysmwtable > tr > th, table.mysmwtable > tr > td, table.mysmwtable > * > tr
> th, table.mysmwtable > * > tr > td {
border: 1px solid #a2a9b1; /*border around cells*/
padding: 0.2em 0.4em; /*cell padding*/
}
form.createbox table.formtable th {
padding: 10px 0; /*distance between form fields*/
}
```

Tip: If you need different output formats, create separate templates to accommodate the styling. The templates can then use different subpages (styles.css) for each styling.