

# Getting started with Semantic MediaWiki



## Approval not enabled

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Semantic MediaWiki Basics

Define properties

Define properties

Create a template

Create a form

Integrate form edit mode

Template styling

Query the data

Naming conventions

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# 1 Semantic MediaWiki Basics

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## Scope and terminology

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Semantic MediaWiki (SMW) is a MediaWiki extension that enables you to define and query data on a wiki page.

The following steps are usually taken to work with data-based content in your wiki :

1. **Define properties:** Properties determine which values can be queried in the wiki.
2. **Create a template:** This creates the output format of the data set on the wiki pages.
3. **Create a form:** Using this form, Wiki users can comfortably enter their data.
4. **Assign a category:** Each page that contains a semantic query is usually tagged with a category that was created for this purpose. This, in addition to the attributes, provides an important means of querying and filtering the pages. It also creates a form editing mode for the wiki pages that contain this category.

## Properties



### 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)

#### Semantic properties

## Template




<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	2020/12/21

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online documentation and quality management.


#### Semantic template

## Form



**Location:**

**Contact person:**



**First contact:**  



**Free text:**



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management, online documentation and quality management.


### Data entry form

 Customer data **Category**  **Edit with form**

## Hallo Welt GmbH

 Last edited one hour ago by MLR

<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	2020/12/21

### Category to organize data

## Define properties

To make information available as data on a wiki page, we create so-called **properties**. For example, if we want to semantically record customer data, we create a wiki page for each customer. We collect customer data such as location on every customer page. To do this, we create a property that records the location of the customer.

```
[[Has location::Regensburg]]
```

Afterwards I can list all customers at a certain location or all customers with their associated locations in the wiki.

## Create a template


Since we often want to display several such properties and their values on one page at the same time, we format a special area that clearly shows the collected page attributes. This requires a (data) template, which can then be used on any wiki page.

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

Data template

## Create a form

To support our users with data entry tasks, we create an input form. The input form is shown when users switch to the edit mode of a wiki page that has the semantic template included.

Location:	<input type="text" value="Regensburg"/>
Contact person:	<input type="text" value="Jane Doe"/>
First contact:	<input type="text" value="21/12/2020"/> 

Data entry form



## Assign a category

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Wiki pages that use semantic templates are tagged with a category. This category enables the assignment of the input form to the wiki page. The category is also used to query the data collected via the template and display it anywhere in the wiki.

## Example

---

On the following pages, we will create an example that collects and displays customer data it in the wiki.

### **Example: Collect customer data**

## 2 Example: Customer data

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

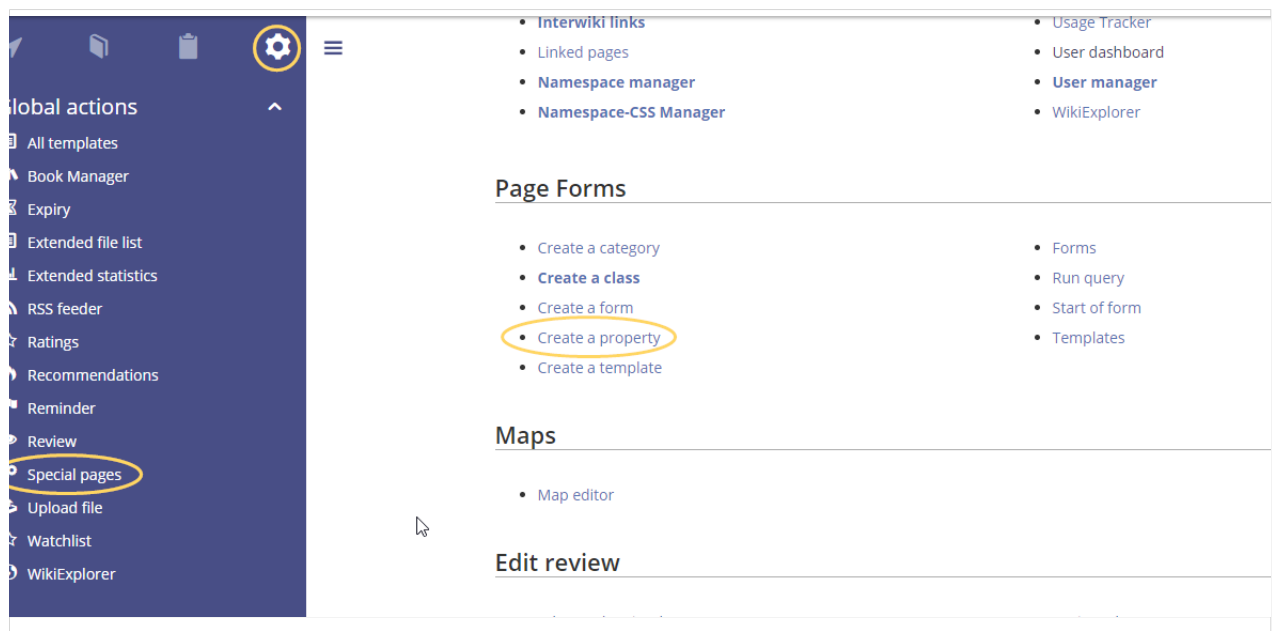
### This requires 4 steps:

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**.



Create a property

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

Property name:  1 Type:  2

To 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.

Property "Has location" was altered and requires assigned entities to be reevaluated using a [change propagation](#) process. The property page has been locked until the primary specification update is completed to prevent intermediary interruptions or contradictory specifications. The process may take moment before the page can be unlocked as it depends on the size and frequency of the [job queue](#) scheduler.

Property gets processed

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

## 2.1 Define properties

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

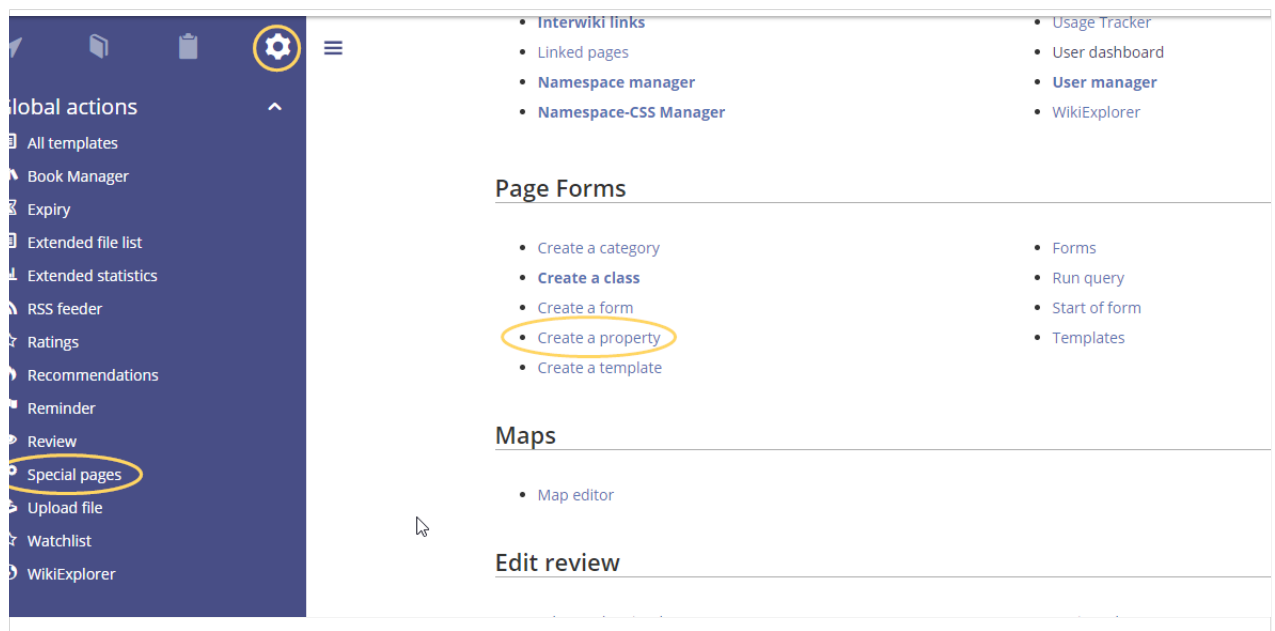
### This requires 4 steps:

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**.



Create a property

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

To 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.

Property "Has location" was altered and requires assigned entities to be reevaluated using a [change propagation](#) process. The property page has been locked until the primary specification update is completed to prevent intermediary interruptions or contradictory specifications. The process may take moment before the page can be unlocked as it depends on the size and frequency of the [job queue](#) scheduler.

Property gets processed

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





## 2.2 Create a template

### Contents

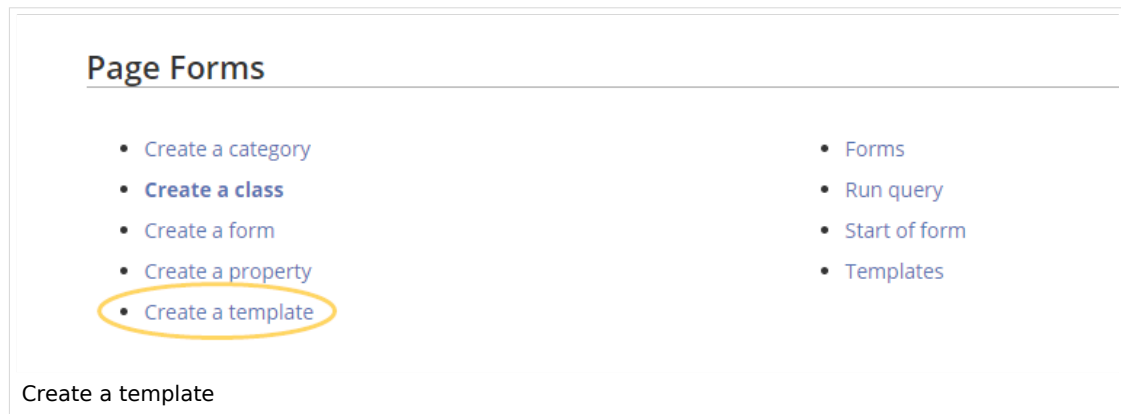
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## Creating the display template

---

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 ▾     

☐ Field holds a list of values

Field name:       Display label:

Semantic property:  ▾     

☐ Field holds a list of values

Field name:       Display label:

Semantic property:  ▾     

☐ Field holds a list of values

6

Create the template

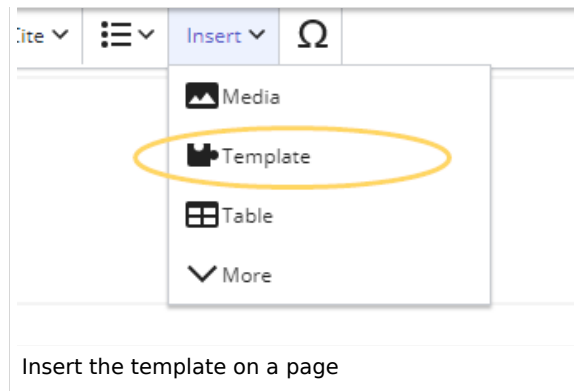
- **Template name (1):** Enter *Customer data* as name for the template.
- **Category (2):** Define a category which will be assigned to all customer pages that use this template. It makes sense to also call this category *Customer data*.
- **Field name (3):** Create a field name for the property *Has 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*.

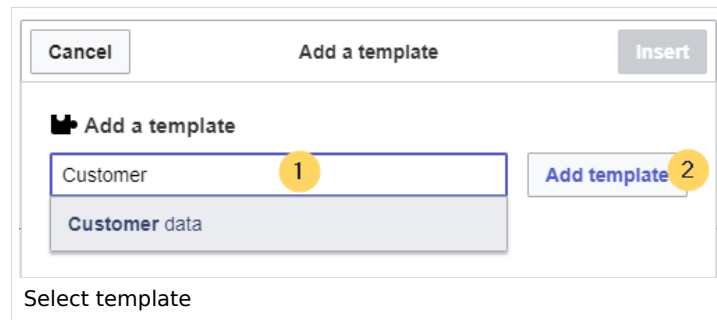
The template is now available and can be viewed in the *Template* namespace. You do not have to edit the template any further at this point.

## Including the template on a page

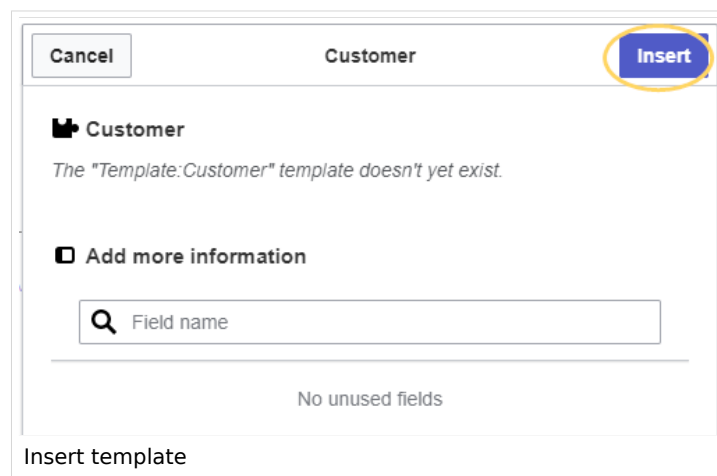
1. To include the template on a customer page, you simply add it from the Visual Editor *Insert* menu.



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

① Last edited 24 seconds ago by MLR ☆ Watch ⓘ No status information

Location	
Contact	
First 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

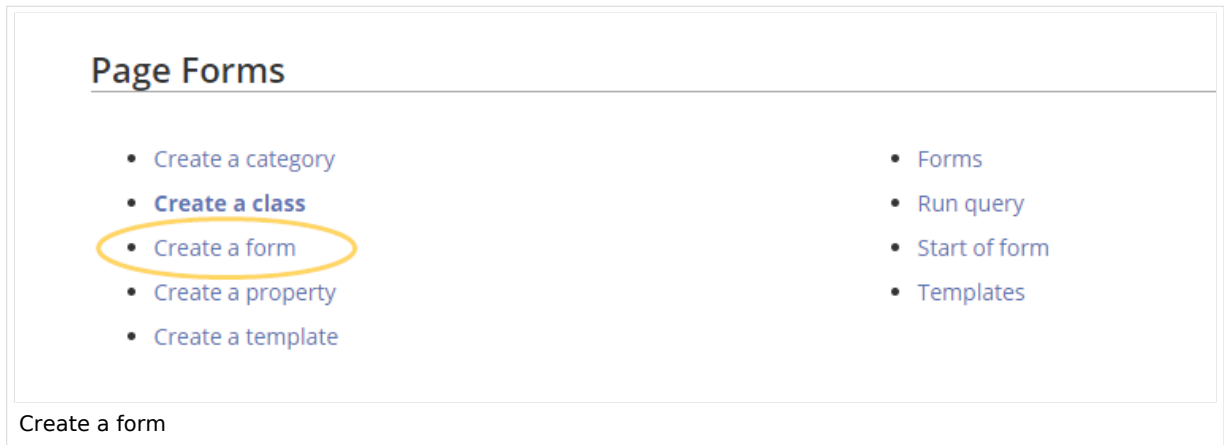
#### Related info

---

- [https://www.semantic-mediawiki.org/wiki/Help:Semantic\\_templates](https://www.semantic-mediawiki.org/wiki/Help:Semantic_templates) Help page for semantic templates

## 2.3 Create a form

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

The screenshot shows the 'Create a form' page. The 'Form name (the form is usually given the same name as its main template):' field is filled with 'Customer data' and is marked with a yellow circle with the number 1. Below this, the 'Add elements' section has a dropdown menu for 'Add template' set to 'Customer data' and an 'Add' button, both marked with a yellow circle with the number 2. At the bottom, there is a 'Select template' label.

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:

Input type: 

1

☐ Other parameters[Remove template](#)

## Add elements

Add template: Before: [Add](#)

Add section:

Before: [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.

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 Customer data: Hallo Welt GmbH

**Location:**

**Contact person:** 1

**First contact:**  

**Free text:** 2

Hallo Welt! was founded to make the technology and concept of Wikipedia applicable for professional usage.

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


3    [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

---

<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	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](https://www.mediawiki.org/wiki/Extension:Page_Forms/Quick_start_guide) Help page for the extension *PageForms*

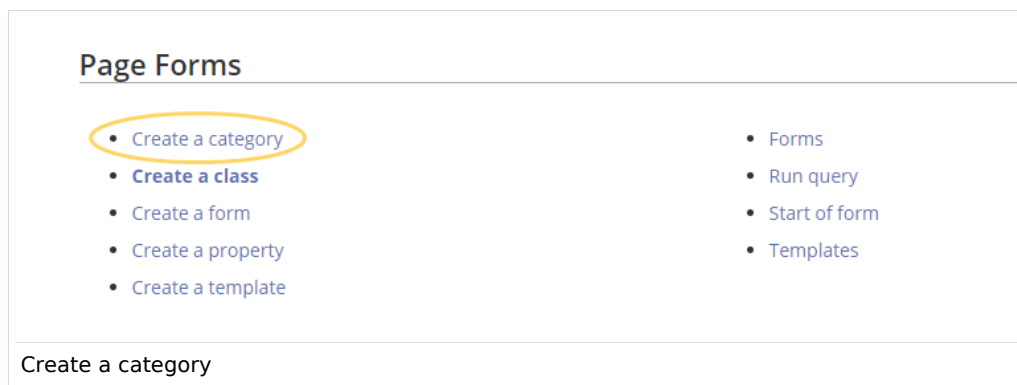
## 2.4 Integrate form edit mode

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 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*.



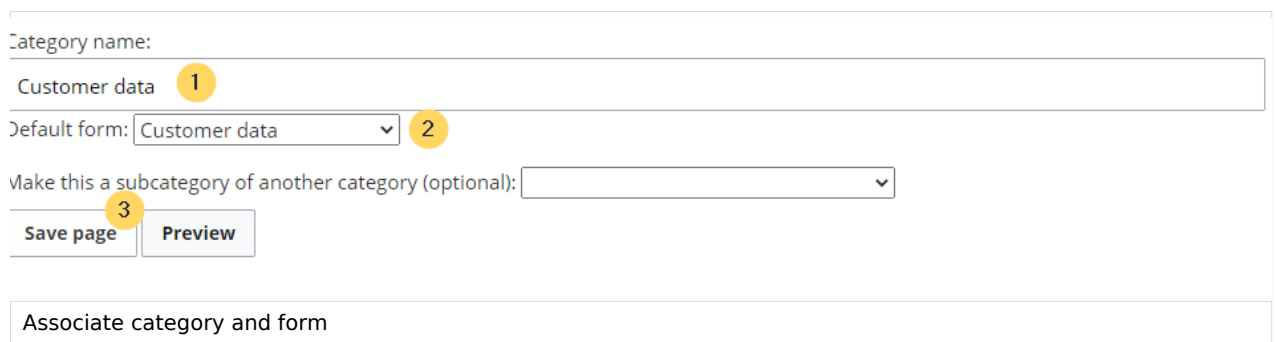
**Page Forms**

- **Create a category**
- Create a class
- Create a form
- Create a property
- Create a template

- Forms
- Run query
- Start of form
- Templates

Create a 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 Preview

Associate category and form

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

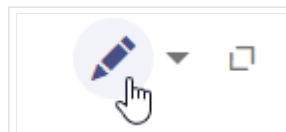
<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	2020/12/21

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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.

Category that is associated with a form

The *Customer data* category page is now linked to the *Customer data* form. As a result of this link, the edit button opens the form on the customer pages.



The edit-button opens the form

**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/Help:Form_editing)

## Related info

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

### 3 Template styling

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.

<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	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.

<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	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: #eaeef0; /*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!**

[Save page](#)[Show preview](#)[Show changes](#)[Cancel](#)

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.

<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	2020/12/21

Hallo Welt! was founded to make the technology and concept of Wikipedia applicable for professional usage.

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

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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<b>Location</b>	Regensburg
<b>Contact</b>	Jane Doe
<b>First contact</b>	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: #eaecf0; /*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 accomodate the styling. The templates can then use different subpages (styles.css) for each styling.



## 4 Query the data

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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## "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).

## 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):

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:

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:

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:~]] [[Main:~]] [[Category:Customer data]]
  |?Has location = Location
  |mainlabel = Customer
}}
```

Result:

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:

## Related info

- [https://www.semantic-mediawiki.org/wiki/Help:Inline\\_queries](https://www.semantic-mediawiki.org/wiki/Help:Inline_queries) Help page for semantic inline queries

## 5 Naming conventions

{{Messagebox|

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## Consistent naming of pages

---

Before you create a semantic template, you first need to define which data to collect. Usually the data can be seen as a data set.

**Example:** We want to collect customer data. All customers get their own wiki page. On each page we enter information about the company *location*, the primary *contact person* and the *date of first contact* with the company.

It makes sense to name the required pages consistently. In our example, we would create the pages *Template:Customer data*, *Form:Customer data* and *Category:Customer data*. You can even consider putting the pages in their own namespace [namespace Customer](#). [Manual:The concept of namespaces](#) For the properties, you have to consider that the property *location* could also be used outside the context of customer pages. There could be locations for partners or vendors, for example. Each context could get their own property (e.g. *Customer location*) or share the same property *location* and then use a different category (Customer data, Partner data, ...) on the wiki pages to distinguish them.

## Classification of information

---

### Categories

Generell unterscheiden wir bei der Klassifizierung von Seiten zwischen Kategorien und Attributen. Mit Kategorien wird die Seite an sich beschrieben. Am Beispiel Kunden kategorisieren wir jede Kundenseite mit dem Schlagwort *Kundendaten*. Die Kategorie sammelt also alle Seiten, auf der sich Kundendaten befinden.

When classifying pages, we generally differentiate between categories and properties. The page itself is described with categories. Using the example of customers, we categorize each customer page with the keyword *Customer data*. The category therefore collects all pages on which customer data is located.

### Properties

In den Kundendaten werden nun bestimmte Eigenschaften gesammelt, die jeden Kunden genauer beschreiben. Hierzu werden Attribute erstellt. Im Normalfall stehen diese Attribute in einer direkten Beziehung zur Seite selbst. Daher kann es hilfreich sein, die semantische Beziehung über das Attribut auszudrücken:

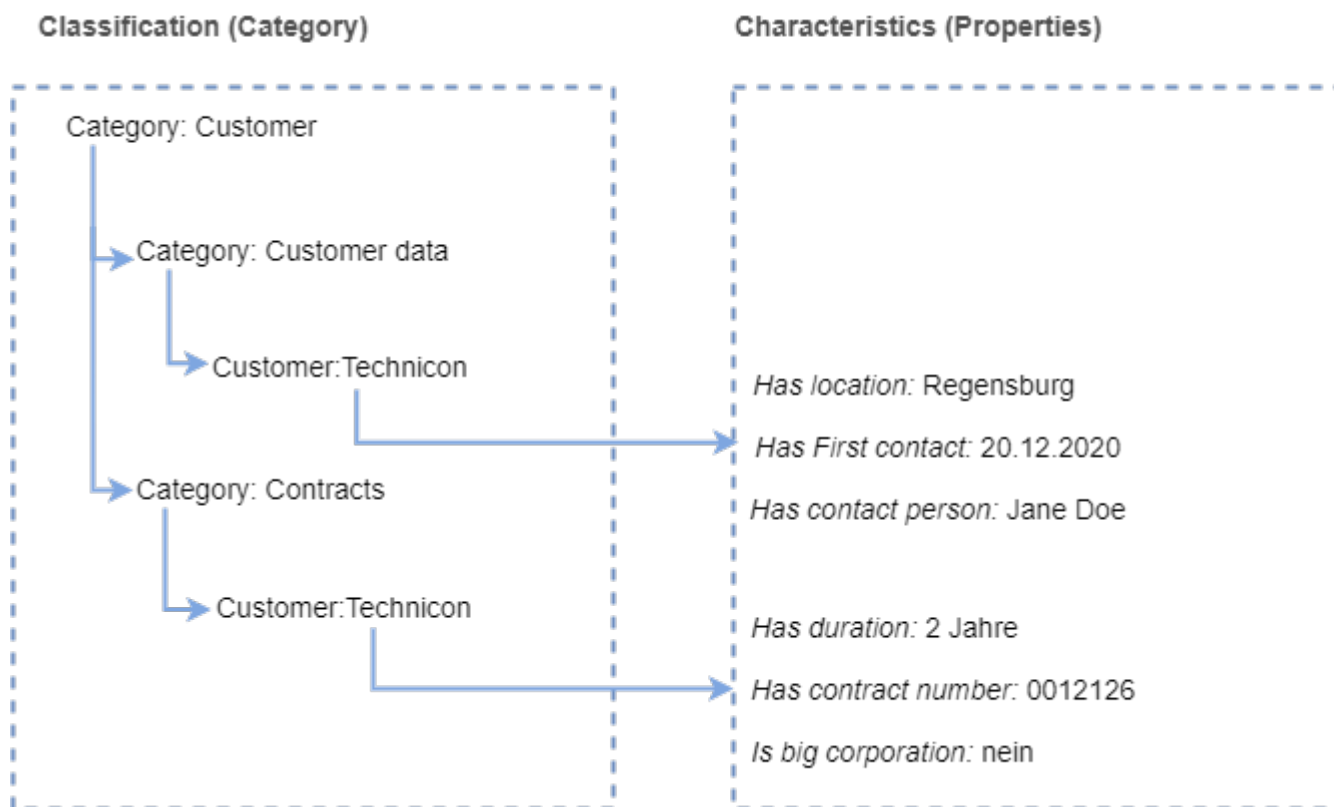
Certain properties that describe each customer more precisely are now collected as customer data. Normally, these properties are directly related to the page itself. It can therefore be helpful to express the semantic relationship directly in the property:

```
Customer Technicon has location Regensburg.  
  (page)    (property)    (value)
```

Therefore, we capture the relationship to the page in the property name: *Has location*.

**Note:** It is not required to express this relationship function of properties (as predicates). The property can also simply be named "location" if its intended use is clear.

There is, however a difference between "Has location" and "Is location of". For example, the customer Technicon has the location Regensburg. The city of Regensburg, on the other hand, is the location of the customer Technicon.



## Subpages

We can also work with a subpage system and work with properties like `Property:Customer/Has_location`, `Property:Customer/Has_First_contact`, and so on. If the property "Location" is also to be used elsewhere, it is advisable to define `Property:Has_location` instead of `Property:Customer/Has_location`.

When properties can be clearly assigned to a use case or have several use cases, it makes sense to name them accordingly. For example, `Property:Customer/Contract_number` can be a sequential, whole number, but `Property:Partner/Contract_number` can contain entries such as "1.1.5" or "4.3.7".

## Related info

- <https://www.semantic-mediawiki.org/wiki/Help:Classification>



