

You can use web parts on both [portal page templates](#) and [ASPX templates](#). However, with ASPX page templates, you lose the browserbased interface — the web parts need to be added and configured in Visual Studio as standard user controls.

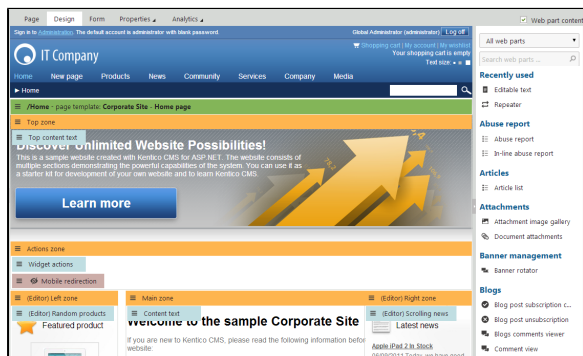
This page describes how to work with web parts when editing page templates through the portal engine.



Only users who have [design permissions](#) (**Design web site** for the *Design* module) can use web parts.

1. Open the **Pages** application and select your website.
2. Select any page in the content tree and switch to the **Design** tab (in **Edit** mode).

The Design tab allows you to view the structure of the page's template and manage the template's web parts.



Impacts of modifying page templates

The system applies all web part modifications immediately and reflects the changes on the live site. Page templates are not connected to the page's [workflow](#). However, you can use [object versioning](#) to keep track of the changes made to a template, including its web part content (and roll back to previous versions if necessary).

When you edit the web parts on a re-usable page template that is shared by several pages, the changes affect all of the pages. If you only wish to modify the design for one of the pages, you need to [clone the template](#) as an ad-hoc template or save it as a new page template.

Adding web parts


From the web part toolbar

The most direct way to add a new web part to the template is provided by the *web part toolbar*, which appears on the right side of the **Design** tab:

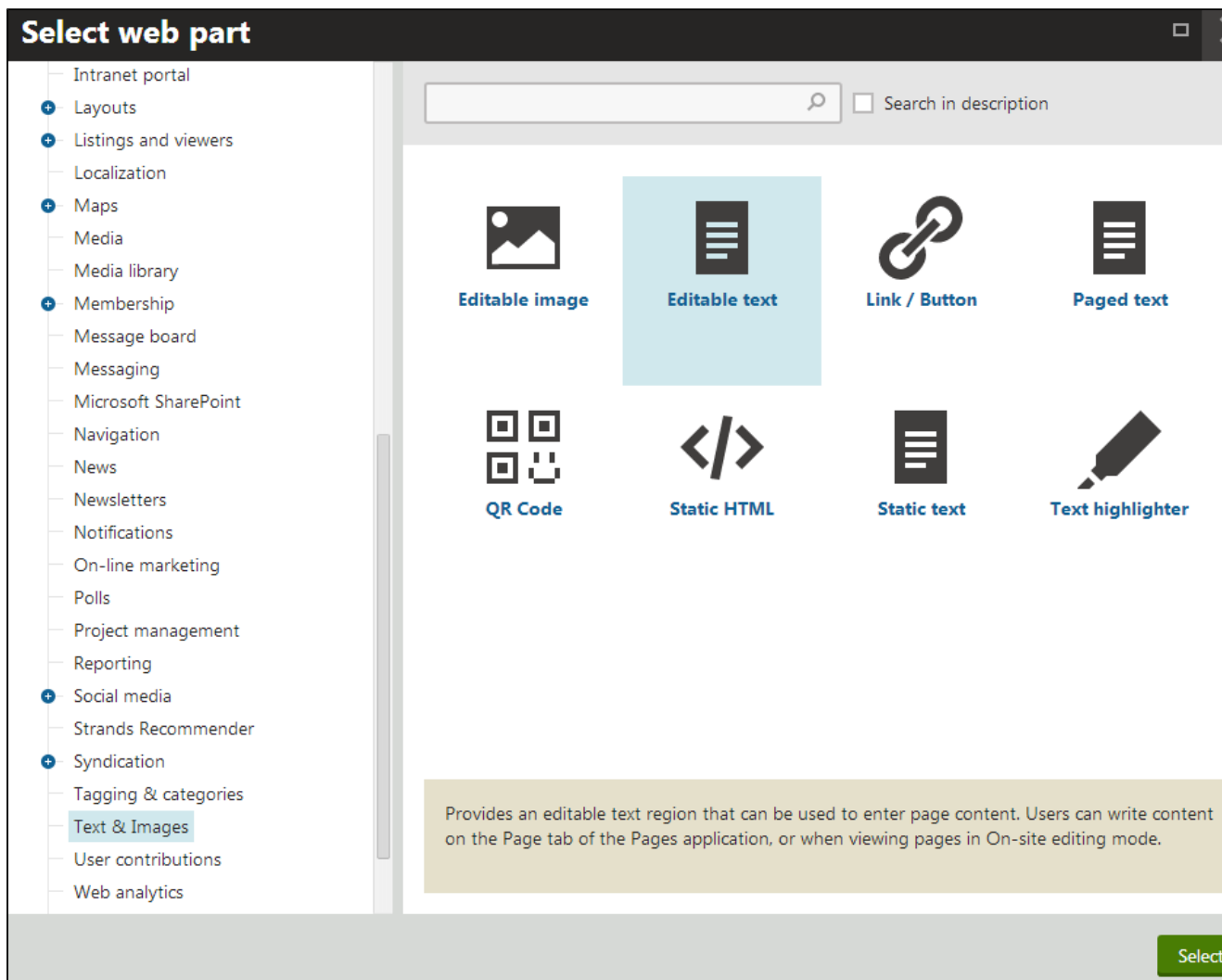
1. Find the required web part in the toolbar's list — you can use two approaches:
 - Type the name of the web part or its part into the search box. The toolbar searches for both individual web parts and entire categories.
 - Select a web part category at the top of the toolbar.
2. Drag the web part from the toolbar and drop it into the desired location in one of the template's web part zones.

Using zone actions

If you do not wish to use the toolbar, you can add new web parts into specific zones:

1. Right-click the header of the required zone, or click the zone's menu icon (.
2. Click **Add new web part** in the menu.

The **Select web part** dialog opens, which contains a catalog of all available web parts. Locate specific web parts by browsing through the category tree or using the search. Click **Select** to confirm your selection.



Configuring web parts

When you add a new web part instance into a zone, using either the toolbar or the zone action buttons, the **Web part properties** dialog opens. Here you can set up the behavior of the web part by entering values into its properties.



Note

Web parts can skip the initial configuration dialog when users add new instances. To enable this behavior for a web part:

1. Open the **Web parts** application.
2. Select the web part in the tree catalog.
3. Check **Skip initial configuration** on the **General** tab.
4. Click **Save**.



Loading values from the properties of other web parts

Macro expressions allow you to connect the functionality or content of multiple web parts. By adding the following macros into properties, you can set up web parts that automatically adjust their behavior based on the configuration of other web parts or zones.

Note: The connected web parts or zones must be placed on the same page template.

- **{% WebPart.GetValue("WebPartControlID","PropertyFieldName") %}** - gets the value of a web part's property. To identify the property, fill in the *Web part control ID* of the source web part and the *Field name* of the given property. You can find the field names of properties by editing web parts on the *Properties* tab in the *Web parts* application.

Tip: To get the value of a property of the current web part, use only: **{% PropertyFieldName %}**

- **{% WebPartZone.GetValue("ZoneID","PropertyColumnName") %}** - gets the value of a zone's property. To identify the property, fill in the *ZoneID* of the web part zone and the column name of the given property. You can find the IDs of zones in the template's [Page layout](#) code, and the column names of zone properties in the XML files in `~\App_Data\CMSModules\PortalEngine\Properties\WebPartZone`.

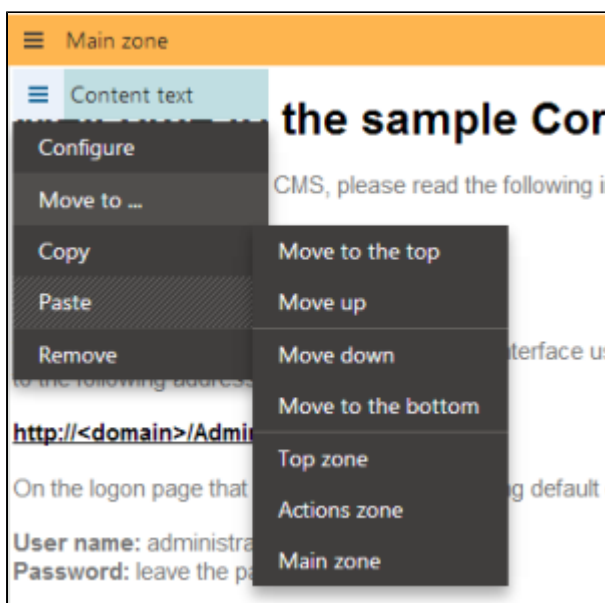
When the system displays the page, the macros resolve into the values of the specified properties.

Moving web parts

To relocate a web part to different positions or to other zones, drag the web part's header to the desired location.

Alternatively:

1. Right-click the web part's header.
2. Hover over **Move to**.
3. Select one of the options to move the web part up/down in the current zone, or to one of the other zones on the template.



To move all web parts in a specific zone:

1. Right-click the header of the zone.
2. Hover over **Move web parts to**.

3. Select the target web part zone.

Copying web parts

Copying allows you to duplicate web parts and paste them into any web part zone, including the **templates of other pages** on the same website.

You can copy:

- **Individual web parts** - right-click the web part's header, click **Copy**
- **All web parts in a zone** - right-click the header of the zone, click **Copy all**

The system saves the web parts and their configuration into an internal component clipboard. To paste the copied web parts into a zone, choose the target location:

- **At the end of the zone** - right-click the header of the zone, click **Paste**
- **Directly below a specific web part** - right-click the given web part's header, click **Paste**

You can paste the web parts any number of times. Copying different web parts (or [widgets](#)) overwrites the clipboard content. Every user in the system has their own separate clipboard.



Copy limitations

When copying web parts, the system does NOT carry over:

- The content of editable web parts (*Editable text*, *Editable image*). Editable content is unique for every page.
- [Multivariate testing](#) and [Content personalization](#) variants. When you copy a web part with variants, the system only transfers the original web part.
- Content placed inside the child zones of [layout web parts](#). You need to copy the web parts of individual child zones manually through additional *Copy all web parts* operations.

Removing web parts

To remove existing web part instances from the page template:

- Right-click the header of a specific web part and select **Remove**.
- To remove all web parts in a zone, right-click the zone header and select **Remove all web parts**.

Finding where specific web parts or widgets are used

You can see which objects use a specific web part or a widget. The objects are:

Web parts

- [Page templates](#)
- [Web parts](#) - for inheriting web parts
- [Widgets](#) - for inheriting widgets
- [MVT variants](#)
- [Personalization variants](#)

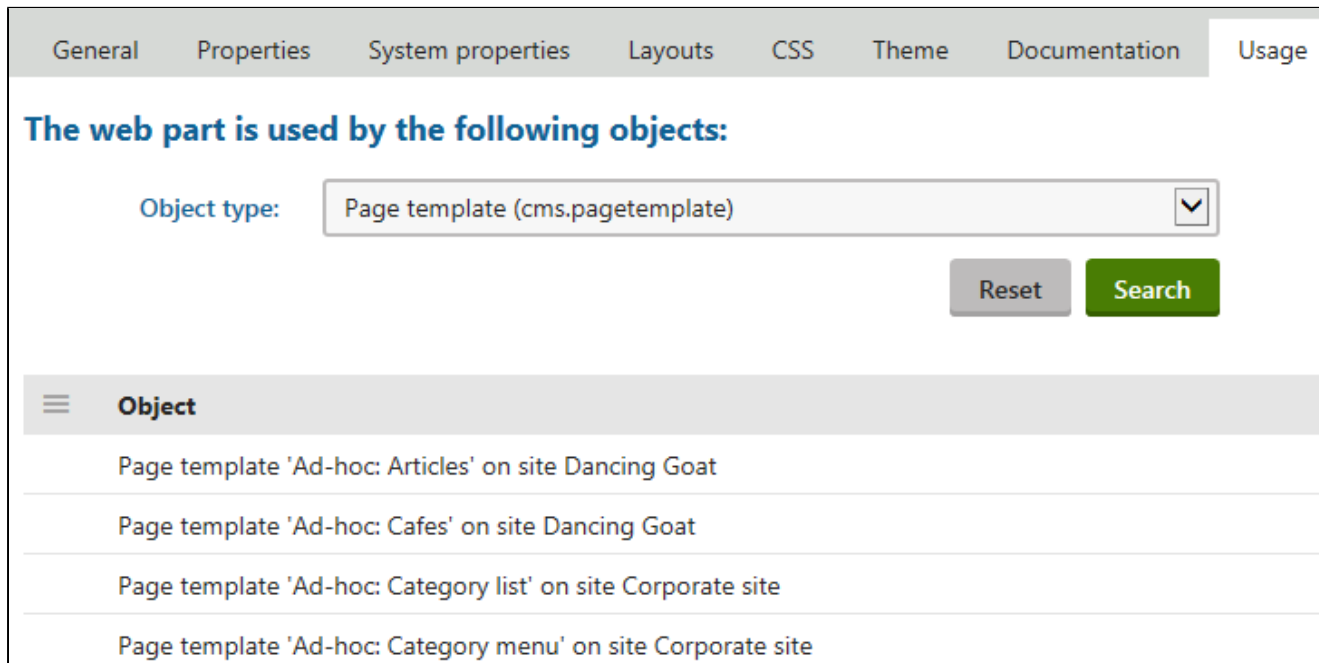
Widgets

- [Page templates](#)
- [Pages](#) (editor widgets)
- [Group pages](#) (group widgets)
- [Last version of page](#) - on pages that are under a [workflow](#)
- [MVT variants](#)
- [Personalization variants](#)

- [Dashboards](#)
- User widget personalized pages

To find specific web part or widget usage

1. Open the **Web parts** (or **Widgets**) application.
2. Select a specific web part (or widget).
3. Switch to the **Usage** tab.
4. Here, you can see listed the objects that use the web part.
You can find out which pages use a specific page template on the **Pages** tab of a specific page template in the **Page templates** application.



The screenshot shows the 'Usage' tab of the Kentico application. At the top, there is a navigation bar with tabs: General, Properties, System properties, Layouts, CSS, Theme, Documentation, and Usage. Below the navigation bar, the heading 'The web part is used by the following objects:' is displayed. Under this heading, there is a form with a label 'Object type:' and a dropdown menu showing 'Page template (cms.pagetemplate)'. To the right of the dropdown are two buttons: 'Reset' and 'Search'. Below the form is a table with a single column header 'Object'. The table contains four rows of data:

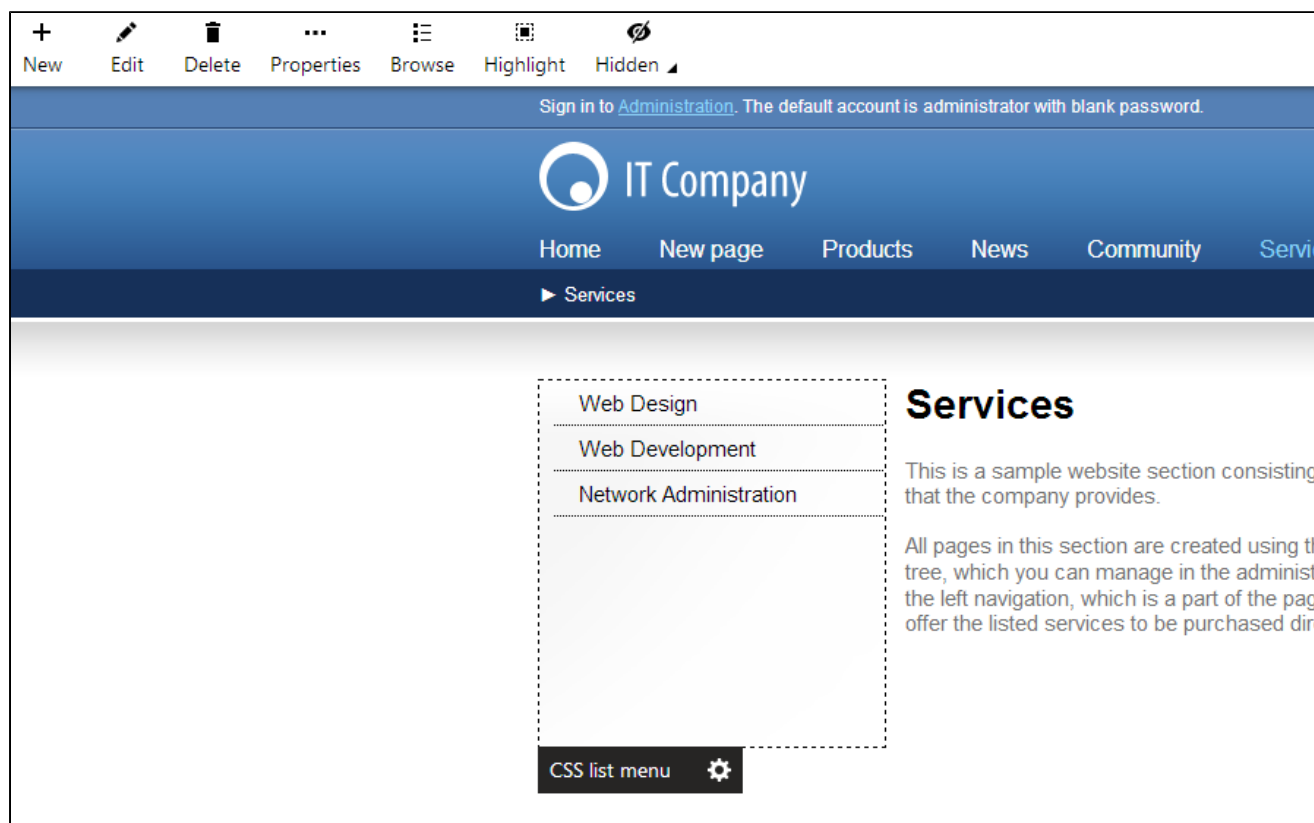
Object
Page template 'Ad-hoc: Articles' on site Dancing Goat
Page template 'Ad-hoc: Cafes' on site Dancing Goat
Page template 'Ad-hoc: Category list' on site Corporate site
Page template 'Ad-hoc: Category menu' on site Corporate site

Configuring web parts via on-site editing

Users with [design permissions](#) can use [on-site editing](#) to configure the properties of web parts directly while browsing the website.

1. Open the website in on-site editing mode.
2. Highlight web parts by moving the mouse over the corresponding part of the page.
 - The page encloses highlighted web parts in a dotted outline, with an additional box displaying the web part's title.
3. Click **Configure** (⚙️) next to the web part title.

The web part properties dialog opens just like when configuring web parts on the **Design** tab of the Pages application.



To view the entire web part structure of a page, enable the **Highlight** action on the on-site editing toolbar. This highlights all web parts placed on the given page.


Note

Because of [master pages](#) and [page nesting](#), the content displayed by a page on the live website may often be loaded from several different page templates.

On-site editing mode does not differentiate between templates, so you can configure any web parts displayed on the current page, even those that actually belong to ancestor pages.

Editing hidden web parts

Some web parts may not have any visible output at the time when you are viewing the page. For example, pages only display paging web parts if the connected listing contains a sufficiently large number of items.

You cannot find such web parts directly on the page in on-site editing mode. However, you can still access their properties by clicking **Hidden** on the toolbar and configuring  the appropriate item in the drop-down.



Note: The **Hidden** list only includes web parts that have the potential to affect the appearance of the page. Instances of invisible web parts that only perform background functionality need to be configured in the administration interface through the **Pages** application.

Resolving web part errors

In rare cases, web part errors may prevent the **Design** tab of a page from working correctly. For example due to invalid configuration of a web part or when testing custom web parts.

You can fix the page by manually editing the web part XML source of the page template:

1. Open the **Page templates** application.
2. Edit the given page's template.
3. Open the **Web parts** tab.
4. Remove the source of the error by editing the XML data.
 - You can modify the values of properties for all web parts on the template.
 - You can remove web parts from the template by deleting entire `<web part>` elements.
5. Click **Save**.