

Contents

1. Main Page	2
2. Announcement/Log4Shell	3
3. BlueSpice 4.1	6
4. Manual:All topics	10
5. Manual:Create Pages	14
6. Manual:Extension/BlueSpiceBookshelf	17
7. Manual:Extension/BlueSpiceDiscovery	27
8. Manual:Extension/BlueSpiceDiscovery/Main navigation	33
9. Manual:Extension/BlueSpicePermissionManager	37
10. Manual:Extension/CustomMenu	47
11. Manual:Extension/FlexiSkin	47
12. Manual:Extension/Workflows	54
13. Manual:Semantic MediaWiki	64
14. Setup:Download	69
15. Setup:Installation Guide	69
16. Setup:Installation Guide/Security Patches 3.2.8	72
17. Setup:Release History	73
18. Setup:System requirements	75

Welcome to the
Main Page
BlueSpice 4 Helpdesk

Important! A critical security vulnerability of the log4j Java library has been reported. After an initial assessment, current versions of BlueSpice are not affected by this issue. In older installations, the search components could be affected. [You can find our detailed vulnerability assessment here.](#)

Additional Info: How to apply the latest [MediaWiki security patch to BlueSpice 3.2.8.](#)

Note: The contents of this helpdesk apply to BlueSpice version 4. [You can reach our helpdesk v.3 here.](#) Please note that the help desk is under construction. It will be continuously expanded until the product release on January 19, 2022.

Installation and Setup

[Release-Info](#) | [What's new](#) ^{new!}

[Download of the current version](#)

[Installation guide](#)

[System requirements](#)

[Operating Manual](#)

First steps

[BlueSpice layout](#)

[Create a page](#)

[Edit a page](#)

[Track changes](#)

[Video tutorials](#)

Basic tasks

[Organize content](#)

[Search and find](#)

[User preferences](#)

[Bookshelf](#)

 **Topics**

- Blog
- Quality management
- Approve a page draft
- [Semantic MediaWiki](#)
- [Workflows](#)

[all topics...](#)

 **Administration**

- [Main navigation](#)
- [Custom menu](#)
- Namespace manager
- [Permissions](#)

 **Customization**

- [FlexiSkin](#)
- Portal pages
- Templates download

Announcement/Log4Shell

Contents

1 Event	4
2 Current vulnerability assessment in BlueSpice (overview)	4
3 Detailed assessment	4
3.1 Current version	4
3.2 Older versions of BlueSpice 3	4
3.3 BlueSpice 2	5
3.4 Inspected components in the Docker image	5
3.5 BlueSpice Cloud	5
4 Related links	5

Event

Log4j vulnerability

- <https://nvd.nist.gov/vuln/detail/CVE-2021-44228>
- [BSI warning from 12/12/2021 \(CVE-2021-44228\)](#)

Current vulnerability assessment in BlueSpice (overview)

- BlueSpice free, pro, farm:
 - [Current on-premise installations](#) => **not affected**
 - [Older on-premise installations](#) => **version of Elasticsearch could be vulnerable**
 - [The Docker version](#) => **not affected**
- [BlueSpice Cloud](#) => **not affected**

This is true for instances that we have installed. **Customers have to check their part of the installation** (i.e., OS, additional packages, etc.)

Detailed assessment

Current version

- **Elasticsearch** => **not vulnerable**
<https://discuss.elastic.co/t/apache-log4j2-remote-code-execution-rce-vulnerability-cve-2021-44228-esa-2021-31/291476>
- **Java-Server**
 - Tomcat => explicit configuration of log4j is necessary. By default, log4j is not activated. We do not change this. => **not vulnerable**
 - Jetty => explicit configuration of jetty is necessary. By default, log4j is not activated. We do not change this. => **not vulnerable**
- **Java Webservices**
 - xhtmlrenderer => a log4j plugin exists, but is not used by our service => **not vulnerable**
 - VisualDiff => uses daisydiff + others. Does not use log4j => **not vulnerable**
 - LaTeX2png => uses the jlatexmath library. Does not use log4j => **not vulnerable**
- **Draw.io** reports that the application is not affected:
<https://twitter.com/drawio/status/1470061320066277382> => **not vulnerable**

Older versions of BlueSpice 3

- **Elasticsearch** => **not vulnerable**
<https://discuss.elastic.co/t/apache-log4j2-remote-code-execution-rce-vulnerability-cve-2021-44228-esa-2021-31/291476>
 - **Versions 6.8.9+** (released on 13th May 2020) => **not vulnerable**
 - **Version 6.4.0 - 6.8.8:** Update of Elasticsearch is recommended.
=> **not vulnerable (updating the version during the next BlueSpice update is recommended)**
=> **vulnerable outside of BlueSpice**

- **Versions 6.3.x and below:** Update of Elasticsearch is recommended.
=> **not vulnerable (updating the version during the next BlueSpice update is recommended)**
=> **vulnerable outside of BlueSpice**

Independently of the Elasticsearch version in use, BlueSpice is not vulnerable due to the setup of Elasticsearch:

- **No direct access:** BlueSpice uses Elasticsearch as an internal service. We set up Elasticsearch in such a way that there cannot be any direct access. The only way to access Elasticsearch if you are not working directly on the server is through BlueSpice, which means there is a very controlled set of access vectors. These are search queries and content which is to be indexed.
- **No logging of data:** We use log level WARN on Elasticsearch, which means no data can find its way to the logs. So there is no way an attacker can add custom information to the logs.

No pass-through of user data: All communication between BlueSpice and Elasticsearch is done user-agnostic. There is no way Elasticsearch can see which user triggers the communication. The user-agent is restricted to the BlueSpice system user.

This is true even if you are running on an older, vulnerable version of Elasticsearch. So we see no urgent action required. Nonetheless, it is recommended to update your Elasticsearch to a non-vulnerable version with the next update of BlueSpice.

If you have changed the Elasticsearch setup to a different log level or loosened the restrictions on Elasticsearch access, you have to check the setup.

BlueSpice 2

- Solr uses log4j => **vulnerable**
More information on Mitigation is here:
<https://solr.apache.org/security.html#apache-solr-affected-by-apache-log4j-cve-2021-44228>

Inspected components in the Docker image

The list of Docker files in the activated packages has been inspected. => **not vulnerable**

- <https://security-tracker.debian.org/tracker/CVE-2021-44228>

BlueSpice Cloud

- Swarmkit => **not affected**
- Drone => **not affected**

Related links

- <https://www.elastic.co/guide/en/elasticsearch/reference/current/deb.html>
- <https://access.redhat.com/security/vulnerabilities/RHSA-2021-009>
- <https://www.suse.com/c/suse-statement-on-log4j-log4shell-cve-2021-44228-vulnerability/>

BlueSpice 4.1

BlueSpice 4.1 is a Minor Release.

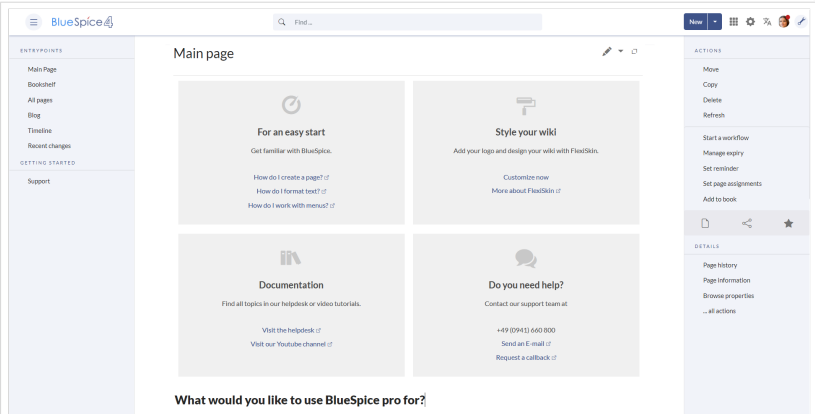
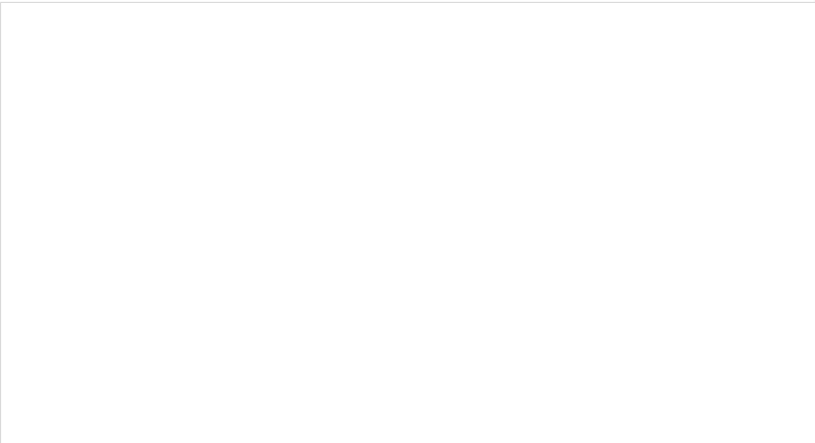
Contents

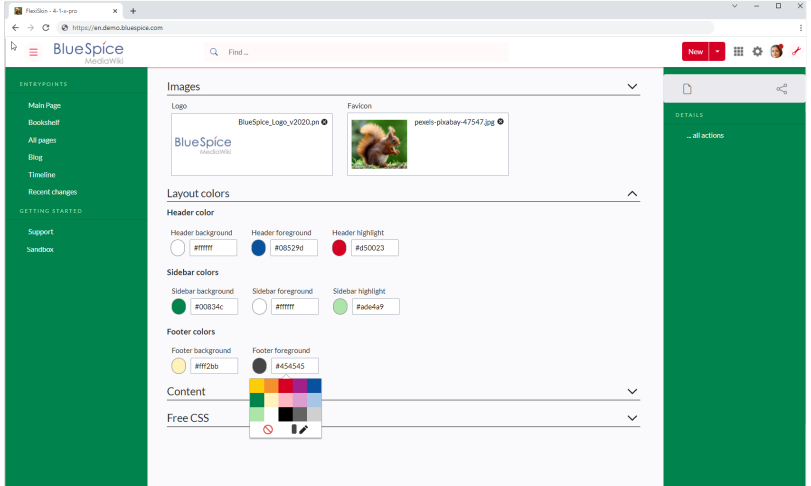
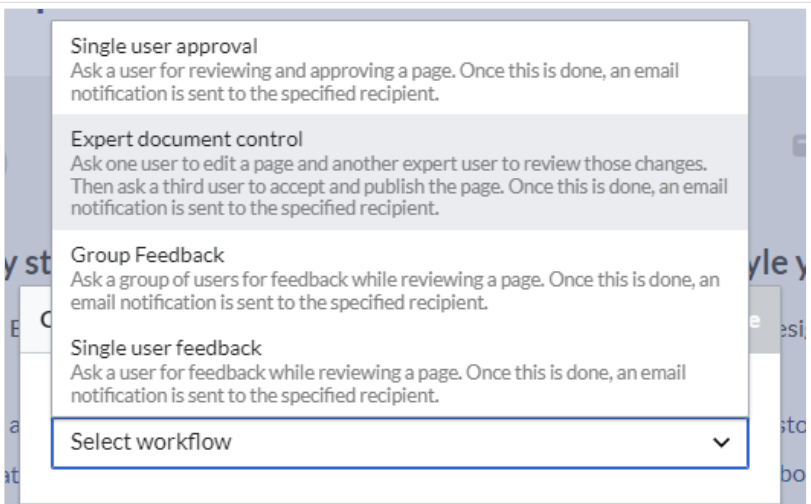
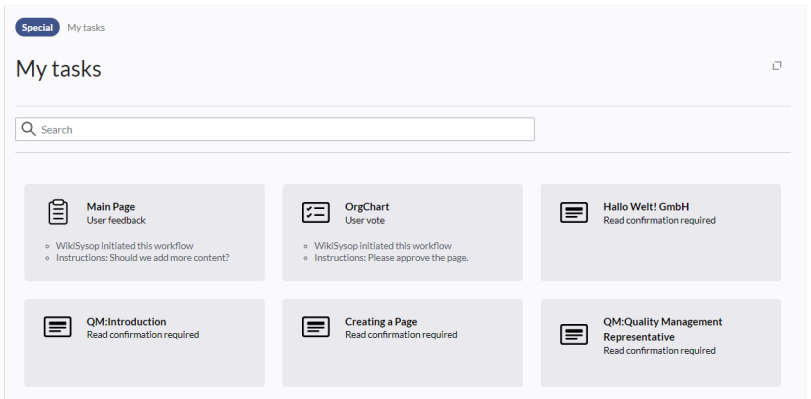
1 Point Releases	7
2 Important new features in BlueSpice 4.1 pro	7
3 Additional added Extensions	9
4 Extensions that are no longer included	10
5 Additional changes in BlueSpice free	10

Point Releases

Release	Releasedate
4.1.4	June 15, 2022
4.1.3	April 26, 2022
4.1.2	March 17, 2022
4.1.1	February 8, 2022
4.1.0	January 19, 2022

Important new features in BlueSpice 4.1 pro

Function	Description	Screenshot
New standard skin "Discovery"	Modern, light-weight skin. We focused on a neutral design and thought a lot about usability. As an alternative, you can still activate the previous "Calumma" skin.	 <p>Skin "Discovery"</p>
	With the FlexiSkin	

Function	Description	Screenshot
FlexiSkin	editor, you can change the logo, colors, and fonts within minutes directly in the wiki.	 <p>FlexiSkin</p>
Workflows	The workflow function has been completely revised. Workflows are now based on BPMN. This makes it easier to adapt them to special requirements. Four review workflows are already included.	 <p>Selecting a workflow</p>
My tasks	The new “My Tasks” overview page enables users to view and process all pending workflow tasks or read confirmations.	 <p>My tasks</p>

BPMN diagrams	You can now create business processes in BPMN format. The diagrams can be exported as XML files or in SVG format.	<p>BPMN diagram</p>
Two-factor authentication	Logins to the wiki can now also be configured to require an additional one-time password or a physical security key (Fido stick).	

Additional added Extensions

Developer: MW=MediaWiki Extension HW: Hallo Welt! Extension

Extension	Developer	Description
DataTransfer	MW	Allows for importing and exporting the contents of a wiki's pages in XML and CSV form, using template calls to define the fields
EventBus	MW	Propagates state changes (edit, move, delete, revision visibility, etc) to a RESTful event service, providing consumers of the service with the means of tracking changes to MediaWiki content.
Forms	HW	A new all-purpose forms framework for MediaWiki.
Loops	MW	Parser functions for performing loops.
OATHAuth	MW	Provides authentication support using HMAC based one-time passwords. Now by default activated in BlueSpice pro.
		Grants a user exclusive rights on a page. Works in conjunction with the

Extension	Developer	Description
PageCheckout	HW	Workflows extension.
PageHeader	HW	Provides an additional user interface before the page content
RevisionSlider	MW	Shows a slider allowing selecting and comparing of revisions on a diff page.
SecureLinkFixer	MW	Rewrites URLs to HTTPS if domain always requires HTTPS.
StandardDialogs	MW	Provides dialog user interfaces for common page actions.
WebAuthn	MW	Provides authentication support using WebAuthn protocol.

Extensions that are no longer included

- **BlueSpiceBookshelfUI**: Removed since BlueSpice 3.2.
- **BlueSpiceEditNotifyConnector**: Removed since BlueSpice 3.2.
- **BlueSpiceReview** and **BlueSpiceReviewExtended**: Replaced by **Workflows**.
- **BlueSpiceSocialArticleActions**
- **BlueSpiceTagSearch**: Removed since BlueSpice 3.2.
- **BlueSpiceUserMergeConnector**
- **BluespiceVisualDiff**
- **CookieWarning**: Functionality has been integrated in BlueSpicePrivacy.
- **Duplicator** (Copying a page): Replaced by StandardDialogs.
- **EditNotify**: Removed since BlueSpice 3.2.
- **Quiz**
- **Page Schemas**
- **Semantic Internal Objects**








Additional changes in BlueSpice free

- Removal of the LDAP stack: LDAP extensions are now only bundled with BlueSpice pro.
- BlueSpicePermissionManager: Custom settings are only available in BlueSpice pro.

Manual:All topics

Helpdesk topics



	Administration
	Concepts
	Content & Structure
	Quality assurance
	Personalization
	Social wiki
	Cloud

Note: If you can't find an answer on these pages, you can also visit our [Community Forum](#).

Setup

- [BlueSpice Operating Manual](#)
- [BlueSpice free Download](#)
- [Installation Guide](#)
- [Installing BlueSpice free with Docker](#)
- [Release History](#)
- [Release Notes](#)
- [System requirements](#)
- [Upgrade from BlueSpice 3 to 4](#)

Administration

- [Config manager](#)
- [Footer](#)
- [Main navigation](#)
- [Extended statistics](#)
- [Namespace manager](#)

Permissions

- [Group manager](#)
- [User manager](#)
- [Invite users](#)
- [2-Factor-Authentication \(2FA\)](#)

Concepts

- [Creating and using categories](#)
- [Magic words](#)
- [Subpage](#)
- [The pages model](#)
- [Wikitext](#)

Content and structure

- [Attachments](#)
- [Content organization](#)
- [Checklists](#)
- [Ratings and recommendations](#)
- [Tag cloud](#)
- [Tasks - Overview](#)
- [Templates](#)

Editing

- [Create Pages](#)
- [Create pages](#)
- [Delete pages](#)
- [Extension/BlueSpiceCategoryCheck](#)
- [Context menu](#)
- [CountThings](#)
- [Filtering tables](#)
- [Insert links](#)
- [Insert tags and magic words](#)
- [Unsaved changes \(autosave\)](#)
- [Drawio](#)
- [Edit pages](#)
- [Insert files](#)
- [Insert images](#)
- [Version history](#)
- [Wikitext](#)

Organization

- [Content organization](#)

- [Creating and using categories](#)
- [Books](#)
- [Category manager](#)
- [Interwiki links](#)
- [Generate page lists \(smart lists\)](#)
- [Creating page lists with DPL3](#)
- [Menus - Overview](#)
- [Page lists](#)
- [Page templates](#)
- [Recent changes transclusion](#)
- [SMW queries](#)
- [Templates](#)

Page tools

Search

- [Extended search](#)
- [Interwiki search](#)
- [Search field in the page content \(TagSearch\)](#)

Customization

- [Displaying page sections as cards](#)
- [Error messages](#)
- [Custom menu](#)
- [Main navigation](#)
- [Namespace CSS manager](#)
- [Attachments](#)
- [Creating page lists with DPL3](#)
- [Integration of third party content](#)
- [Numbering ordered lists](#)

Personalization

- [Avatars](#)
- [Dashboards](#)
- [Notifications](#)
- [Visited pages](#)
- [Privacy center](#)
- [User menu](#)
- [Personal navigation](#)
- [Preferences](#)

Quality assurance

- [Collecting signatures](#)

- [Extension/BlueSpiceExpiry](#)
- [Page assignments](#)
- [Read confirmation](#)
- [Reminders](#)
- [Extension/BlueSpiceWikiExplorer](#)
- [Page approvals \(Acceptance\)](#)
- [Quality management](#)
- [Redirects](#)

Maintenance

Social wiki

- [Introduction to BlueSpice Social](#)
- [Blog](#)
- [Attachments](#)

Cloud

BlueSpice pro Cloud topics:

- [PDF Customization \(Cloud only\)](#)
- [Customizing the user interface \(FlexiSkin\)](#)
- [Invite users](#)

Manual:Create Pages

An important aspect of the wiki principle is that information can be shared with other people quickly and without any "red tape". Every wiki user with edit rights should therefore be able to create and edit a page at least in one namespace without any prior knowledge or without special privileges to contribute to their knowledge.

Contents

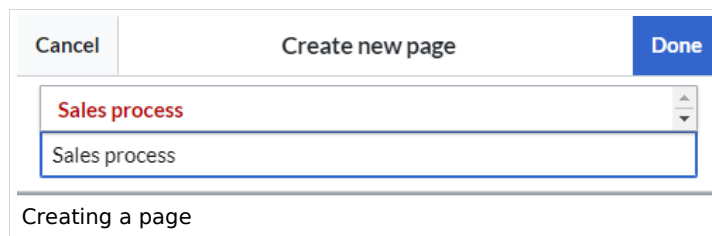
1 Creating a page	16
2 Changing the page name	16
3 Creating subpages	16
4 Alternative options	17
5 Tipps	17

6	Related info	17
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Creating a page

To create a page:

1. **Click** the *New* button in the header bar. A dialog window opens.
2. **Enter** a new page name. If the page does not yet exist, you will see a redlink.



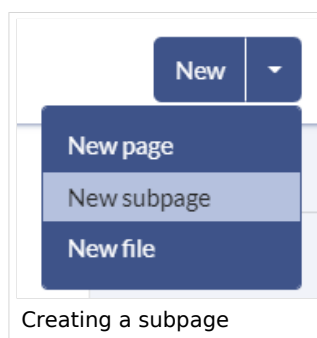
3. **Click** *Done*.
4. **Choose** *Empty page* or a different page template. This step is skipped if there are no available page templates. The page opens in edit mode. You can now switch between visual and source edit mode using the [Editor toolbar](#).
5. **Save** the page. It is now available in the main namespace of your wiki (unless you added a namespace prefix while creating the page).

Changing the page name

If you want to change the page name after the page has been saved — e.g., to save it in a different namespace — you can [move the page](#).

Creating subpages

To create a subpage for the current page, select the *New Subpage* link from the *New* button menu.



The subpage is then created as *Current Page/Subpage* (e.g., *Visual Editor/Tables*). If a page has subpages, the path is displayed as breadcrumb navigation at the top of the page.

Alternative options

- **Search field:** Maybe information about your topic already exists. Before you create a new page, you can use the search to enter terms for your topic and check existing pages. If no suitable page exists, click on the redlink 'Create page *[page name]*' in the search results **or address bar:** You can also create a page directly from the address bar of your web browser. Simply exchange the current page name with a new one. Then, click enter to create the new page.
- **Form:** In BlueSpice pro, the extension [Page Forms](#) is available. It allows to create pages using a form.

Tipps

- **Redirects:** Do you have the impression that an article title is searched more often with a different synonym? Then create a new article with this name and **redirect** the page to another page that contains the actual information.
- **Title choice:** In a wiki, titles are very important. In wikis with many entries, authors may make references to pages that they deem important in the context of their entry. The page title should, therefore, clearly communicate its content. Single words are very good, but even short sentences like "why wikis work" can be useful names. In addition, meaningful page titles also help readers find their way around when they search for an entry.
- **Spelling:** When linking to an already existing page you should pay attention to their exact spelling. If you e.g. typing a `[[hello world]]` instead of `[[Hello World]]` will create a new page as the links are spelled differently. Therefore, consider also capitalization and spaces. Only at the beginning of the letter does it make no difference whether you write a small or capital letter.
- **Namespaces:** If you want to create an article in a different namespace, the namespace must appear before article name. Example: `[[namespace:article name]]`.
- **Special characters:** The following characters **cannot** be used in titles : `{ } & ? < > \` and `,` `.` For more information, see mediawiki.org/wiki/Manual:Page_title.
- **Subpages:** The character `/` is used to create a **subpage**.

Related info

- [Rename and move pages](#)
- [Redirects](#)
- [Creating and Using Page Templates](#)

Books

In BlueSpice pro, several wiki pages can be displayed for a structured book with chapter navigation. The book can also be printed as a PDF file with a cover sheet.

Contents

1 Characteristics of books	19
2 Creating a book	19
2.1 Adding pages	20
2.2 Mass-adding of pages	21
3 Adding metadata	21
3.1 Add graphic for gallery view	22
4 Types of books	22
5 Exporting a book	22
6 Actions in the book manager	22
7 Configuration	23
7.1 Display options	23
7.2 Export	25
7.3 Configuring the file size limits (server)	25
8 Deleting a book	26
9 Duplicating a book	26
10 Including a book table of contents on a page v4.4+	27
11 Adding a PDF-download link to a page	27
12 Permissions	27

Characteristics of books

By default, books are created as a "general book". General books have the following characteristics:

- They provide a chapter navigation.
- On book pages, the book navigation is displayed instead of the main navigation.
- A wiki page that belongs to a general book is identified by a `<bookshelf />` tag in the source code.
- Each page can only be included **in one** general book.
- Books can be printed completely or partially as a PDF with a cover sheet.
- They are listed alphabetically on the bookshelf. It is not possible to hide individual books.
- The bookshelf can be reached via the main navigation.

Creating a book

Books are created from the page *Special:BookshelfBookManager*. This page can be reached from the *Global actions* menu under *Management > Books*.

Book manager

Export table

Title	Assignments	Actions
<div><div></div>General books (3 books)</div>		
Emergency Manual	No assignments	
Organization Manual	No assignments	
Quality Handbook	No assignments	

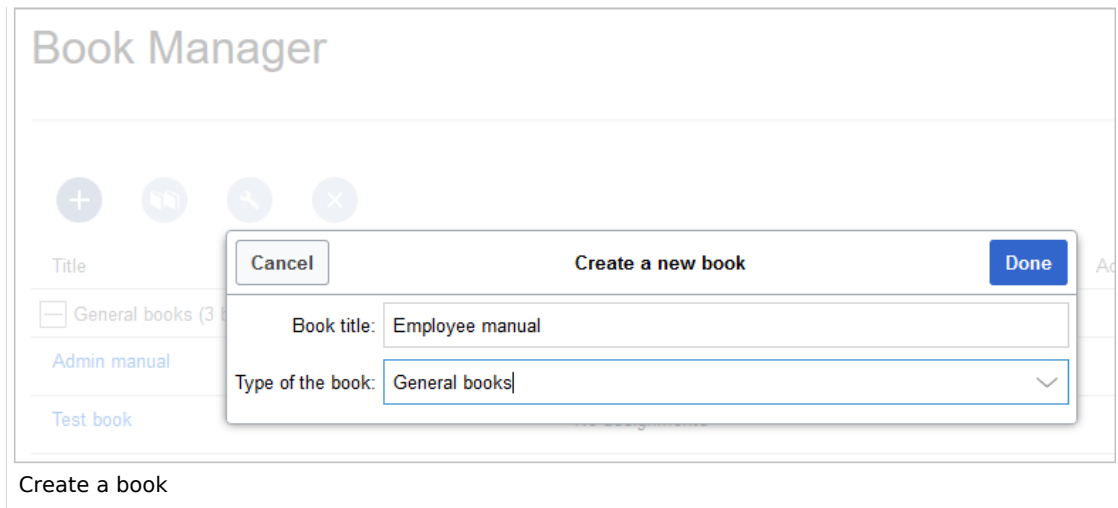
Page 1 of 1

Displaying 1 - 3 of 3

Book manager

To create a book:

1. **Click** the `+`-button.
2. **Enter** a *Book title*.
3. **Select** "General books" as type of the book.

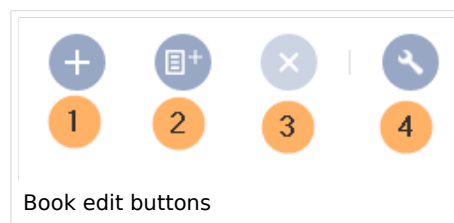


4. **Click** *Done*. The book editor loads next.

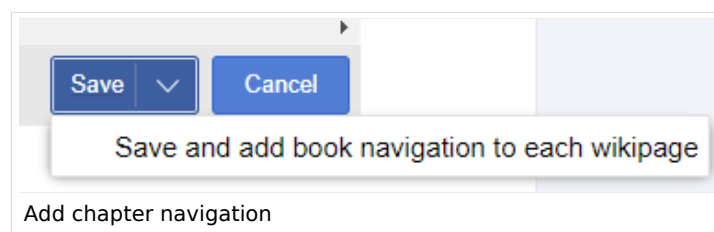
Important! The book is only created in the wiki when at least one page has been saved in the book.

Adding pages

You are now in the book editing mode.



1. **Click** the *Plus* button (1). A dialog window opens.
2. **Search** for a page in the wiki and select it. If a different name is to be displayed in the book navigation, you can enter a display title (optional).
3. **Click** *Done*.
4. **Add** additional pages.
1. **Click** the arrow of the *Save* button and select *Save and add chapter navigation*. This process inserts the `<bookshelf />` tag into the source code of all wiki pages in the book. This causes a revision of the pages.



Tip: You can click a page title of a book page before adding a new book page. This is then inserted as a sub-chapter. You can move pages to the desired position later using drag & drop with the mouse.

The book is now displayed on the wiki bookshelf. The bookshelf can be reached via the entry links in the main navigation.

Note: There is no option to go directly from the bookshelf to the book manager.

Mass-adding of pages

After clicking "Mass add", a dialog is opened. It contains different criteria for page selection:

- All pages of a category
- All subpages of a certain page
- From a page collection - page collections are lists of pages located in the MediaWiki namespace. They are usually created from a [Word import](#) or from [search results](#).

After adding your book pages click *Save* at the bottom of the page. Now you have created a page in the namespace *Book*. It simply contains the list of pages that have been added to the book.

Adding metadata

While editing a book (adding or removing pages), metadata for the book can be added. References to these metadata can be included in the PDF template. To edit metadata, select the top-most node of the book (first page) and click the wrench icon. A dialog with a drop-down selection of the following options is available:

- Title
- Subtitle
- Author 1
- Author 2
- Document-ID
- Document type
- Department
- Version
- Bookshelf image
- Template (PDF): If you maintain multiple PDF templates for books, you can select one of them here.
- Table of Contents (*Only article titles, or Embed article TOCs*)

It is also possible to add your own met data for use in the `<booklist>`-tag, for example.

Add graphic for gallery view

Add the *Bookshelf image* metadata element to add a cover photo for a book in the bookshelf gallery view. Select this option from the drop-down list and click *Add*. Then enter the name of the image (without the "File:" prefix) in the value field. Any image currently uploaded to the wiki can be used. The image will then be displayed in the book gallery. However, the image is not used as a cover image for the PDF export (exception: *BlueSpice cloud*).

Types of books

Type	Description	Chapter navigation
General books	Visible to all users. Only general books can have a chapter navigation. In almost all cases a book is set up as a "general book".	Yes
Own books	An own book is only visible in the bookshelf to the user who created the book. Such a book does not have a chapter navigation. Own books are usually created to export wiki pages as a PDF with a cover sheet.	No
Temporary books	This selection is also available to wiki users who are not logged into the wiki and is therefore mainly useful for public wikis. These books are only temporarily stored in the user's browser and not in the wiki itself. If the browser cache is deleted or the user switches to another browser, the book is no longer available. The main aim of temporary books is so that users can collectively print out wiki pages as PDFs.	No

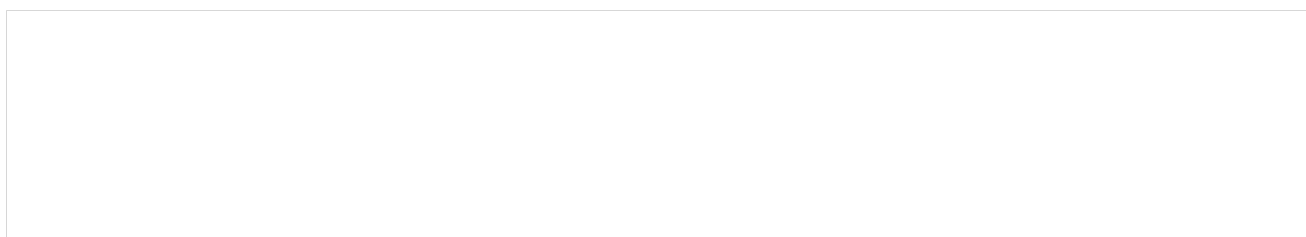
Exporting a book

Books, individual chapters or even individual book pages can be exported as PDF files:

1. **Open** the book in the book manager.
2. **Select** each of the pages or chapters to export by clicking the appropriate check boxes. Sub-chapters are selected automatically.
3. **Click** the Export Selections drop-down menu to open a list of the available formats.

Actions in the book manager

The link Administration > Books in the menu *Global Actions* loads the page *Special:Book Administration*. Here you can edit your books.



Book Manager

<div><div><div></div><div></div><div></div><div></div></div><div>Export table ▾</div></div>		
Title	Assignments	Actions
<div><div></div> General books (3 books)</div>		
Employee Manual	No assignments	<div><div>2</div><div>4</div><div>1</div><div>3</div><div>5</div></div>
Organization Manual	No assignments	
Quality Handbook	No assignments	

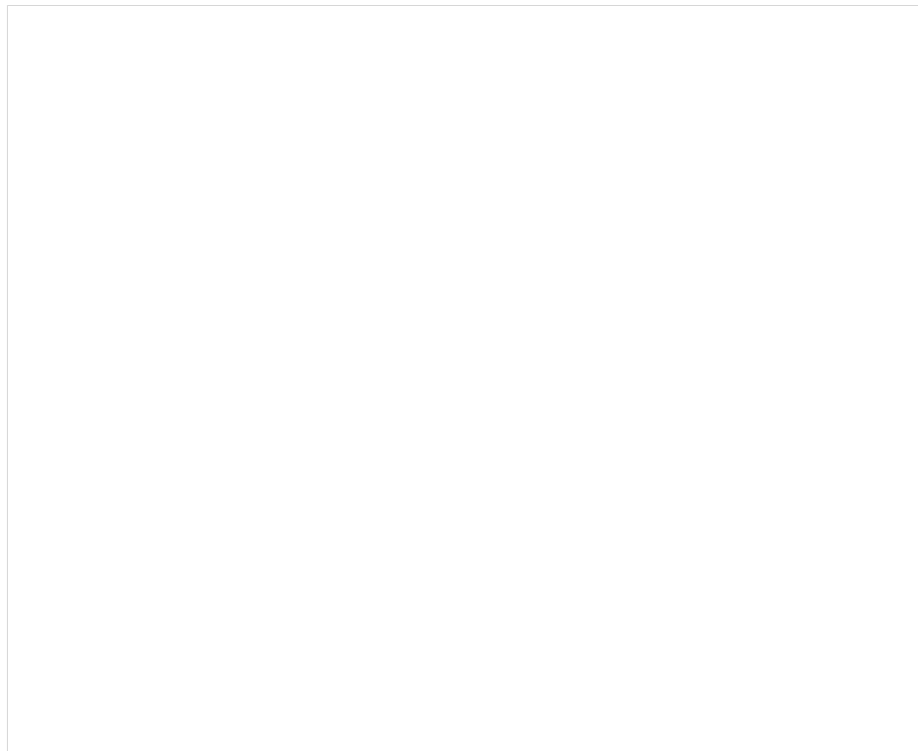
Book manager actions

- **Edit** (1): Links to the Book editor where you can edit the book contents and metadata.
- **Delete** (2): Deletes the book page in the namespace *Book* **without** deleting the wiki pages.
- **Duplicate** (3): Duplicates this book, including **all the pages** of the book to a different namespace.
- **Export** (4): Exports all wiki pages in this book to PDF.
- **Assign** (5): Assigns the book to designated users. These users are the responsible editors of the book.

Configuration

Display options

- **Show book chapter pager after content:** Displays previous/next book page navigation at the end of each book page. (1)
- **Show book chapter pager before content:** Displays previous/next book page navigation at the beginning of each book page. (2)



User manual

< Previous

1

Next >

Login and preferences

Last edited 3 months ago by MLR

★ Unwatch

No status information

Login

To work with your BlueSpice wiki, you need to log in. Click on the login button in the top right corner of the screen.

In the following window, enter your user name and password. Click *Log in* and you're ready to go.

SPECIAL PAGE

Log in

Username

Testuser

Password

☐ Keep me logged in

Log in

Help with logging in

Forgot your password?

< Previous

2

Next >

Book navigation

- **Use the display title from book source on article:** Shows the title from the book navigation as page title instead of the page name.

BlueSpice

Find ...

Main navigation

Getting started with Semantic MediaWiki

Previous

Next

1. Semantic MediaWiki Basics

2. Example: Customer data

3. Template styling

4. Query the data

5. Naming conventions

Manual

Semantic MediaWiki

Examples

Customer data

Template styling

Last edit

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 row. The table width adjusts to the table content.

Location	Regensburg
Contact	Jane Doe
First contact	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.

Default table of a semantic template

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

Adjusting the template styling

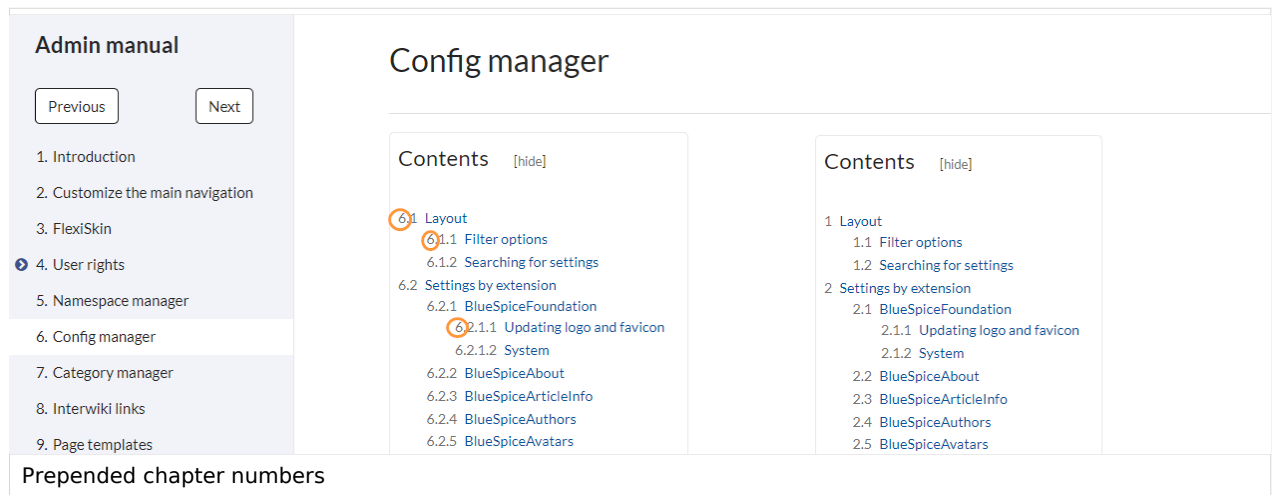
To format the table, we create a subpage to the template. It contains the custom template styles. In the following example, we create a variation of the original width of 100%, left-aligned labels and more padding in the table cells.

Location	Regensburg
Contact	Jane Doe

book display title

Note: If the page additionally contains a `{{DISPLAYTITLE}}` tag, the display title of the page is shown instead of the book title.

- **Prepend article table of contents and headlines with book numeration:** The page TOC does not start with the main heading 1, but with the actual number from the book chapter (see screenshot). If users have activated in their [user preferences](#) to "auto-number headings", the numbering system is matched accordingly.



- **Supress namespace prefix of book articles in output:** The namespace prefix of an article is not shown in PDFs.

Export

Wiki administrators can make the following adjustments for the book export:

Configuring the file size limits (server)

By default, the book export is limited to 50MB in file size. To adjust this value, complete the following steps:

1. In Apache Tomcat, open the file *web.xml*:

```
sudo -s
nano /opt/tomcat/webapps/manager/WEB-INF/web.xml
```

2. Look for the following lines and adjust the value (e.g. for 250MB=26214400)

```
<max-file-size>262144000</max-file-size>
<max-request-size>262144000</max-request-size>
```

3. The web app BShtml2PDF also has a setting that needs to be adjusted:

```
nano /opt/tomcat/webapps/BShtml2PDF/WEB-INF
```

4. Enter your values in the following lines:

```
<param-name>maxMemSize</param-name> <param-value>26214400</param-value>
<param-name>maxFileSize</param-name> <param-value>26214400</param-value>
```

5. Restart Apache Tomcat

```
service tomcat restart
```

Deleting a book

When you delete a book, you only remove the book page of the book (that is, the table of contents) in the "Book" namespace. However, the wiki pages in the book are not deleted. Before deleting the book, a pop-up menu informs you that the *bookshelf-tag* will not be automatically removed from the pages.

The *bookshelf* tags have no effect on the wiki pages after deleting the book page. If you want to remove them manually, you can go to the page *Special:ReplaceText* and do a "find and replace".

Duplicating a book

You can create an entire copy of the book by duplicating it:

To duplicate a book:

1. **Enter** a *target name*: The default value is the book name with the suffix (*copy*). Change this to create a different book title.
2. **Select** a *namespace*: Choose a namespace that is different from the original namespace.

If you are not careful, you might experience some unintended consequences. By creating a new book, you also create copies of all the wiki pages in the original book. Since a namespace cannot contain the same page twice, you have to copy the files to a different namespace.

About the duplicated files:

- **Book page**: A new page in the namespace book. If you don't enter a new title, the book will be created with the same title and the suffix (*Copy*). *E.g. Employee Manual (Copy)*. This file includes a copy of the structure of your original book with the corresponding links to the duplicated pages in the new copy.
- **Wiki pages**: All pages contained in the original book are duplicated. The following scenarios are possible:
 - **Same namespace**: If you duplicate a book in the same namespace, no actual duplicates of the actual wiki are created. Instead, the bookshelf tag is updated to point to the copy of the book. For example, if your original book contains the page *HR:Quality assurance* (the book is in the namespace HR), the *Quality assurance* page now contains the bookshelf tag .
 - **Different namespace**: If you create the book copy in a different namespace, the bookshelf tag in the original files remains unchanged. The new pages in the different namespace are created with a bookshelf tag for the new book copy. This is most likely the scenario you want.

Including a book table of contents on a page v4.4+

The [Content droplet](#) “Book table of contents” can be used to insert the an entire book TOC or an individual chapter navigation of a book on any wiki page.

Admin manual

- 1. Introduction
 - 1.1. Target audience
 - 1.2. System requirements

Content droplet "Book table of contents"

Adding a PDF-download link to a page

The [Content droplet](#) “Book PDF link” can be used to insert a link on a page that will download a book directly as a PDF.

Permissions

To create and edit books, users need *edit* rights in Book namespace. Additionally, a user can only add pages to the book that that user can read. If a user tries to export a book to PDF that contains pages for which the user does not have permissions, the user will get an error message.

➔ [Technical Reference: BlueSpiceBookshelf](#)

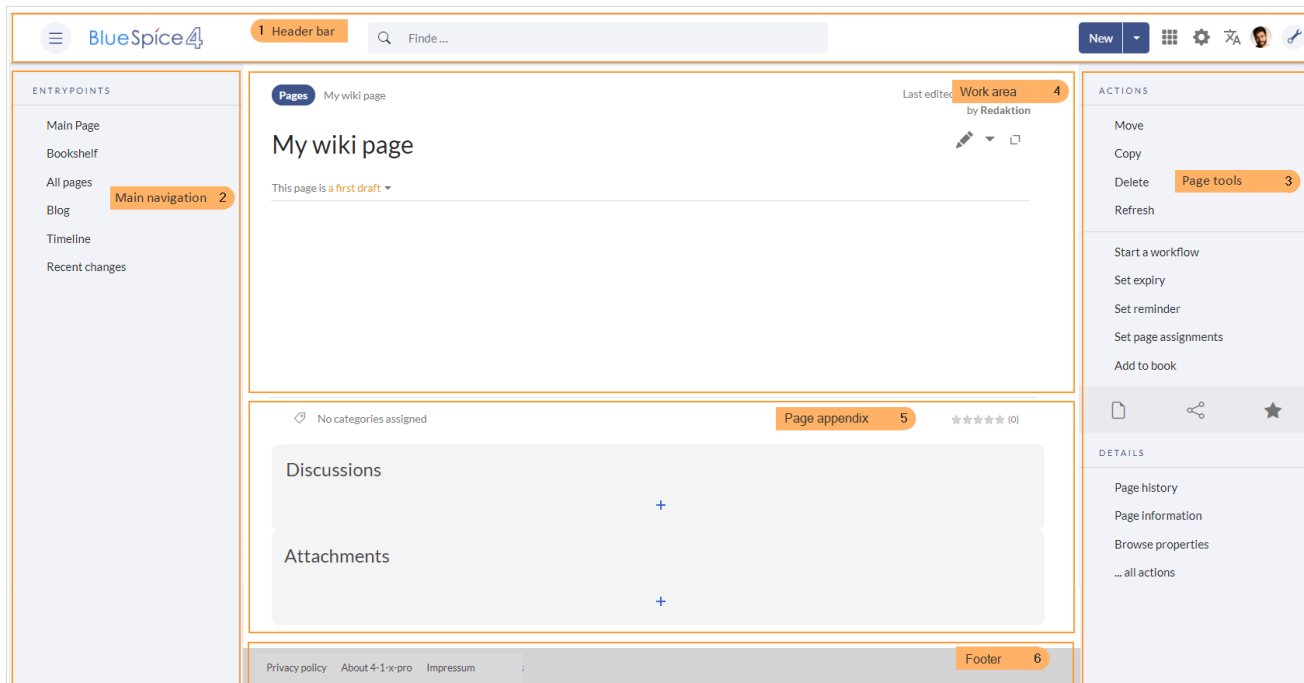
Layout

Contents	
1 BlueSpice Layout	29
2 Header bar	30
3 Main navigation	30
4 Page tools	31

5	Work area	32
5.1	Breadcrumb navigation	32
6	Page appendix	32
7	Footer	33

BlueSpice Layout

The user interface is divided into distinct areas that group various wiki functions in a meaningful way. Here you get an overview of all features of the standard skin "Discovery".



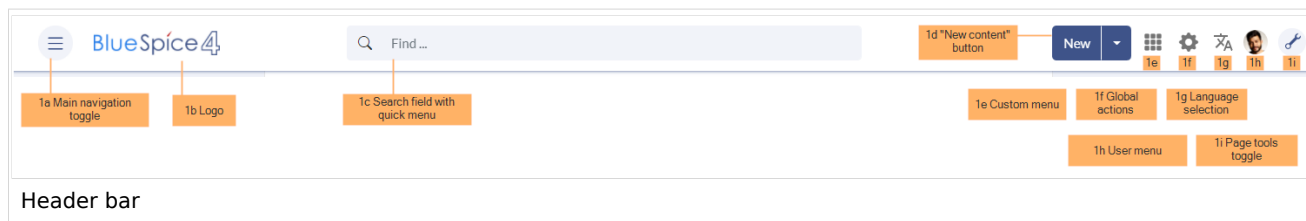
Main areas of the "Discovery" skin

Bereich	Beschreibung
1-Header bar	Contains important elements such as the logo area, the search field and the buttons for various navigation menus (mega menus).
2-Main navigation	The "heart" of the site organization. The navigation links can be customized by admin users. This area also displays the book navigation.
3-Page tools	Contains all the actions that can be performed on a page. In addition, information such as the version history or the page information can be accessed from here.
4-Work area	All content is created and edited here. The work area is divided into the title area and the actual page content.
5-Page appendix	Additional information such as category membership, discussions and attachments are displayed in the supplementary area. In addition, page recommendations and ratings are displayed if they are activated for the page.
	The footer contains links to legal information as well as to external

Bereich	Beschreibung
6-Footer	websites relating to MediaWiki.

Header bar

The header contains important elements such as the logo area, the search field and the buttons for various navigation menus (mega menus).



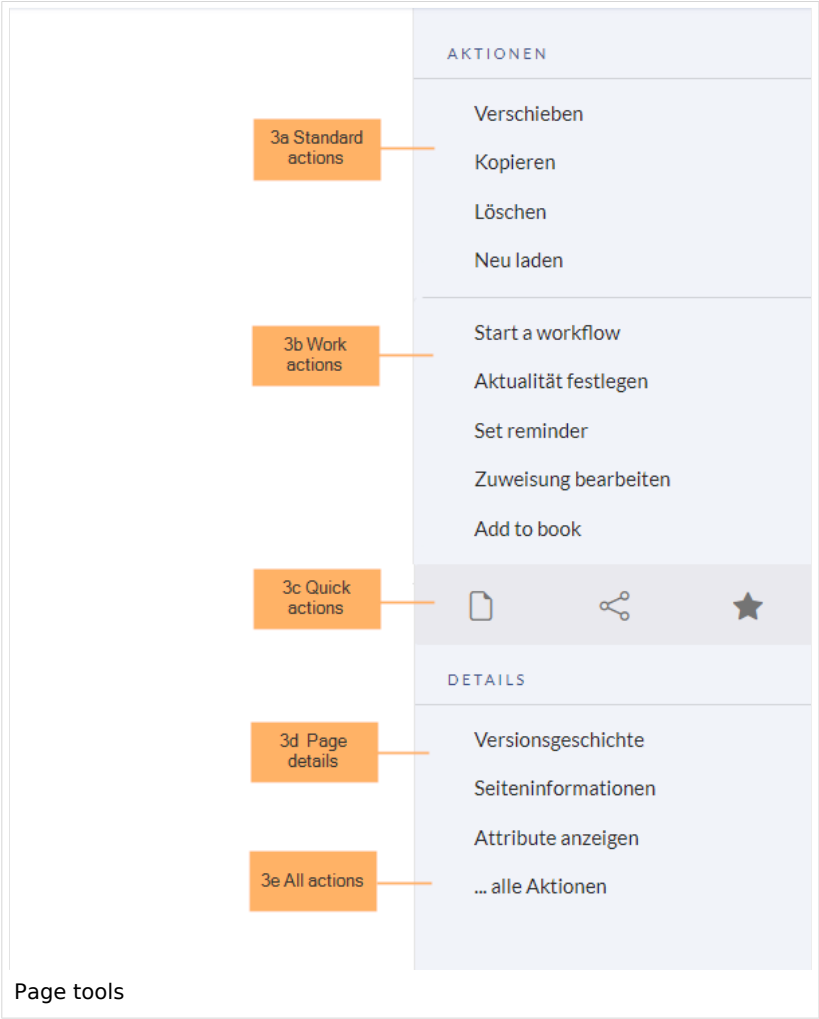
Funktion	Beschreibung
1a-Main navigation toggle	Allows users to show and hide the main navigation.
1b-Logo	The logo can be changed using the special page FlexiSkin .
1c-Search field	Page titles that match the search expression are displayed in a quick menu while the search term is being entered. Pressing the Enter key takes you to the search center, which displays the results of a full-text search and allows filtering the results.
1d-"New content" button	The "New" button allows to create a new page. A subpage can be created directly via the submenu or a new file can be uploaded. A multi-upload is only possible via the Manual:Extension/ExtendedFileList .
1e-Custom menu	Allows users with admin rights to create an additional mega menu. The button is only displayed once the additional menu has been created.
1f-Global actions	Direct links to many special pages as well as administrative pages of the wiki.
1g-Language selection	If a page includes links to pages in different versions via language codes that were defined in the Interwikilinks , a mega menu is shown for the language selection.
1h-User menu	Users manage their own settings, tasks and notifications here. A red circle appears above the user avatar if unread notifications exist.
1i-Page tools toggle	Allows users to show and hide the page tools of a page.

Main navigation

Links to the most important wiki pages are shown here. Administrators have the option to [customize the main navigation](#).

Page tools

The page tools area contains all the actions that can be performed on a page. In addition, information such as the version history or the page information can be called up from here.



Funktion	Beschreibung
3a-Standard actions	Move , Copy, Delete, Refresh
3b-Extended actions	Start a workflow , Set expiry , Set reminder, Set page assignments, Add to book
3c-Quick actions	Export options, Share, Add to watchlist
3d-Page details	Page history, Page information, Browse properties

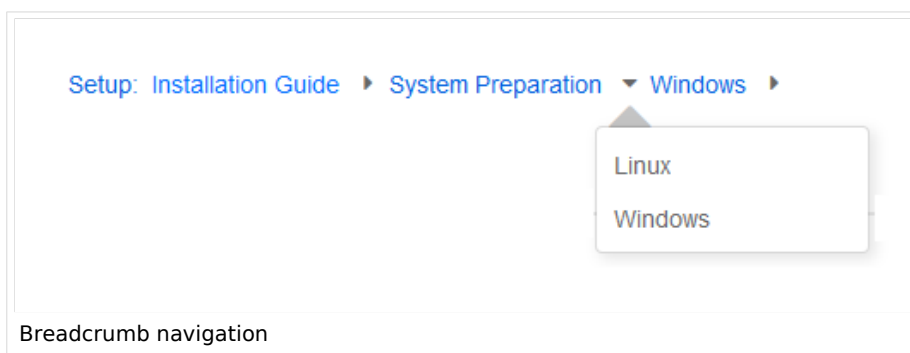
Funktion	Beschreibung
3e-All actions	Opens a dialog window, in which all possible actions on this page are listed.

Work area

Breadcrumb navigation

The breadcrumb navigation at the beginning of the work area consists of links that map the path of the current page:

Namespace (=root node) > Pagename > Subpage level 1 > ... > Subpage level x



If the page *<namespace>:Main_Page* (language variations: de:*Hauptseite* / fr:*Accueil* / zh:) exists, the root node links to that page.

If this page does not exist, the root node links to "All pages" (*Special:Allpages*) with the namespace selector preset to the respective namespace. If the root node should link to a different page (e.g., *<namespace>:Portal*), then this page needs to be redirected to the page *<namespace>:Main_Page*.

Page appendix

To hide the page appendix area, the following CSS rules can be added to the page *MediaWiki:Common.css*:

Hide entire area:

```
#data-after-content {display:none} /* Hide discussions and attachments */
```

Hide attachment only (only up to BlueSpice v4.1):

```
#social-stash-cnt {display:none} /* hide only attachments */
```

Hide discussions only:

```
#social-topics-cnt {display:none} /* hide only discussions */
```

The areas above can also be hidden by namespace, e.g.:

```
.ns-0 #data-after-content, .ns-3000 #data-after-content {display:none} /*Hide only in  
some namespaces*/
```

Footer

The footer contains links to legal information as well as to external websites relating to MediaWiki. The links to the legal information can be adjusted by wiki administrators via pages in the *MediaWiki* namespace.

- [Customize the footer](#)



[Technical Reference: BlueSpiceDiscovery](#)

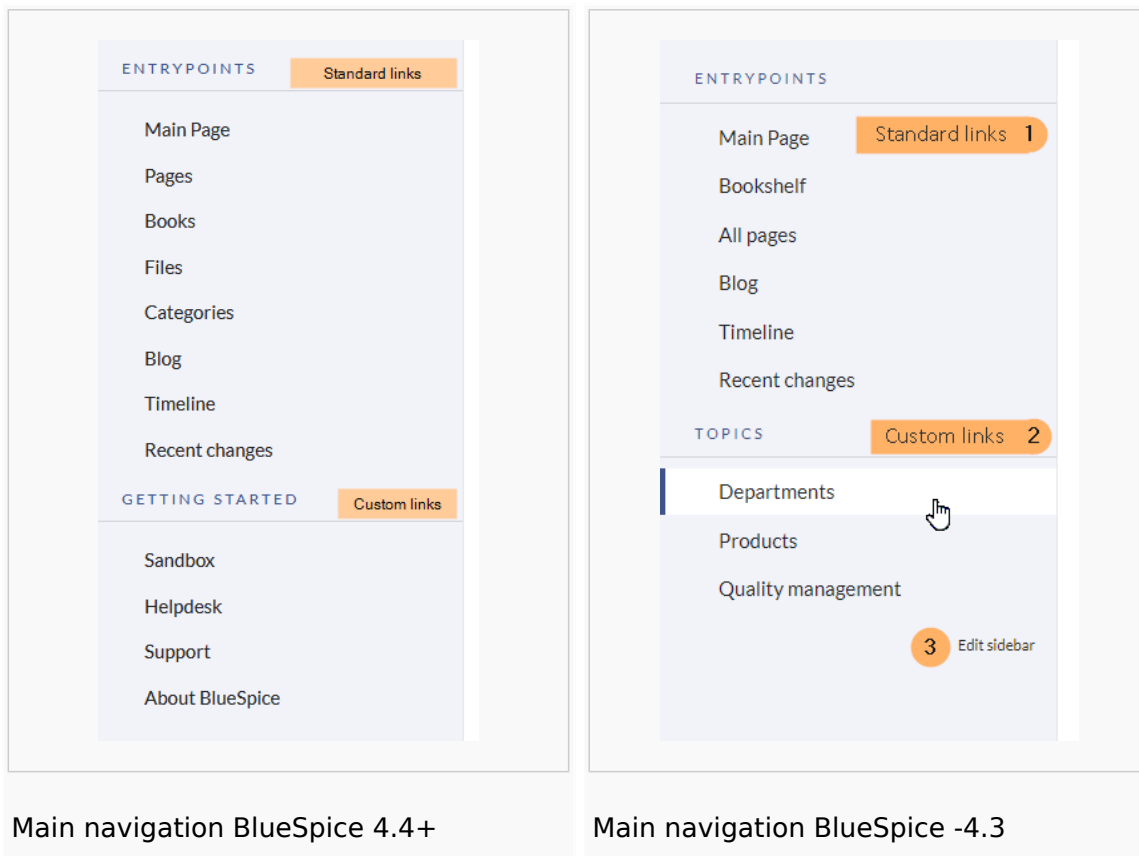
Manual:Extension/BlueSpiceDiscovery/Main navigation

Contents

1 Overview	34
2 Editing the main navigation	34
2.1 Menu editor	34
2.2 Source edit mode	36
3 Deactivating standard links	36
4 Group-specific navigation	36
5 Additional customizations	37
6 Related info	37

Overview

By default, some links are provided as entry points to the wiki. Wiki administrators can deactivate these links in the [configuration manager](#) if needed. In addition, you can also add new links below the entrypoints (admin permissions required). Please note that no hierarchical links can be created. Therefore, it makes sense to mainly set up links to the most important topics and to portal pages that contain additional links or page lists.



Editing the main navigation

To open the menu editor:

1. **Click** *Edit sidebar* at the bottom of the navigation menu. If the page does not exist yet, you will see a notice on the page.

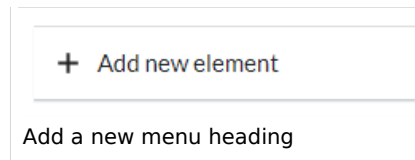
Menu editor



Visual menu editor is available from BlueSpice 4.2.

To add a new menu header using the menu editor:

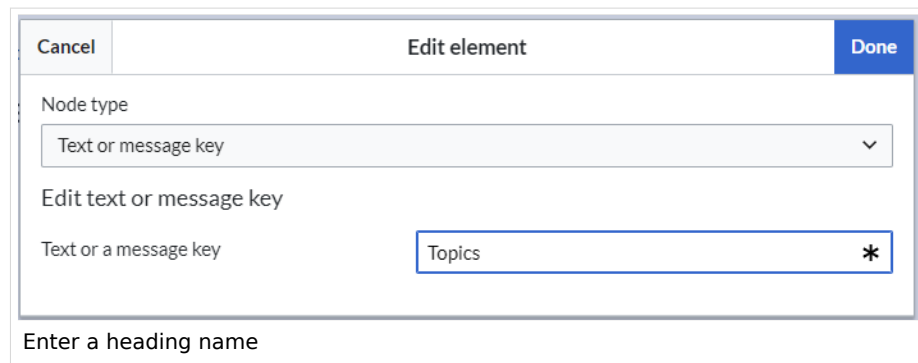
1. **Click** *Add new element* to create a new menu header.



+ Add new element

Add a new menu heading

2. **Enter** the text for your menu header. In a multilingual wiki, you can also enter a [message key](#).



Cancel Edit element Done

Node type

Text or message key

Edit text or message key

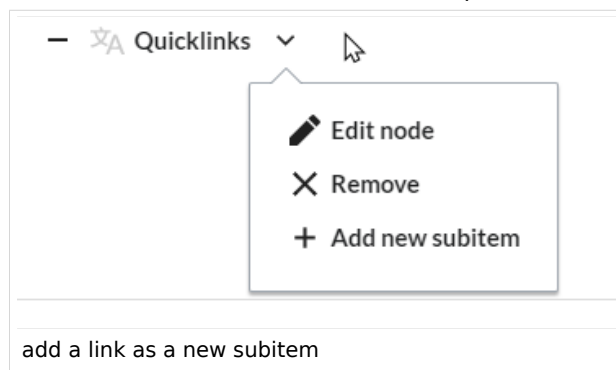
Text or a message key Topics *

Enter a heading name

3. **Click** Done.

To add links:

1. **Select** *Add new subitem* from the dropdown menu of the menu header.



Quicklinks

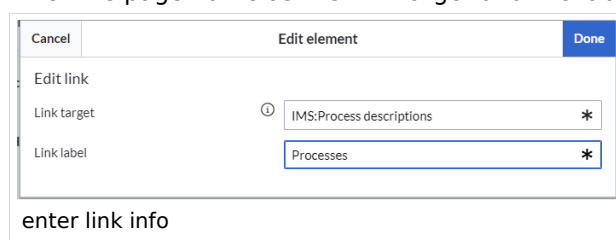
Edit node

Remove

+ Add new subitem

add a link as a new subitem

2. Enter the page name as the link target and the label that you want to show:



Cancel Edit element Done

Edit link

Link target IMS:Process descriptions *

Link label Processes *

enter link info

3. **Click** Done.
4. **Repeat** steps 1-3.
5. **Click** *Save changes*.

Note: If you use the parser function `{{#ifingroup:...` to display navigation elements in the source code, you must always edit the main navigation in the source code. In visual editing mode, saving removes any parser function or semantic queries.

Source edit mode

To add new links:

1. **Change** to source editing mode.
2. **Create** one or more navigation links (with or without section heading). The following example shows a link to the page "Company" with the label "Our company" and an external link to the BlueSpice website with the label "Website". The links are grouped together under the section heading "Quicklinks":

```
*Quicklinks
**Company|Our company
**https://www.bluespice.com/de|Website
```

3. **Save** the page. The links are now shown in the main navigation.

Link labels may collide with system messages. If this is the case, simply append the HTML-code for an empty space to the description:

```
**Portal|Portal&#160;
```

Deactivating standard links

The standard links can be deactivated in the [configuration manager](#). The following settings are available under *Feature > Skinning*:

BlueSpiceBookshelf:

- Show entrypoint "Bookshelf"

BlueSpiceDiscovery:

- Show entrypoint "Mainpage"
- Show entrypoint "All pages"
- Show entrypoint "Recent changes"

BlueSpiceSocial:

- Show entrypoint "Timeline"

BlueSpiceSocialBlog:

- Show entrypoint "Blog"

Group-specific navigation

It is possible to show navigation elements for specific user groups only. Please note that the pipe symbol (|) between the page name and its label has to be escaped as `{{!}}` within this function.

This syntax is defined in the extension [UserFunctions](#).

```
{{#ifingroup:sysop,widgeteditor |
*Test2
**somepage{{!}}Some page
|}}
```

Note: Anytime the page is saved using the visual menu editor, the parser function will be overwritten and no longer works!

Additional customizations

- [Alignment for navigation with long link labels](#)
- [Display icons with navigation links](#)
- [Multi-language navigation](#)

Related info


- [Custom menu](#)
- [User menu](#)

Permission manager

The permission manager can be accessed from the *Global actions* menu *under Administration > Permissions*. This link loads the page *Special:PermissionManager*.


There are four different permission settings. The default setting is "Private wiki". If you want to grant different permissions in different [namespaces](#), the setting "Custom setup" is required.

Permission manager




Public wiki

- Everyone can **view and edit** the content - including anonymous users
- Only users in the group "sysop" can perform **administrative actions**




Protected wiki

- Everyone can **view** the content - including anonymous users
- Only logged-in users can **edit** the content
- Only users in the group "sysop" can perform **administrative actions**



Private wiki

- Only logged-in users can **view and edit** the content
- Only users in the group "sysop" can perform **administrative actions**



Custom setup

- Assign roles and groups manually

✓

Permissions manager

Contents

1 Settings 39

2 Custom setup 40

2.1 About role-based permissions 41

2.2 The roles matrix 42

2.3 Role inheritance 43

2.4 Default roles 43

3 Restricting read permissions 45

3.1 Extensions that are permissions-aware 45

3.2 Extensions and special pages that are not permissions-aware 45

3.3 Limited transclusion 46

4 Technical info 46

4.1 Logging 46

5 Configuration 46

6 Related info 46

Settings

An administrator can choose between three types of settings. The setting **Private Wiki** is activated by default.

Permission type	Description	Special permissions
Public wiki	<p>The wiki is visible to and editable by anyone, including anonymous users (that means users that are not logged in).</p> <ul style="list-style-type: none"> All users have edit rights by default. To approve a page (if the approval mechanism is activated in a namespace), the groups "editor" and "reviewer" must be assigned to a user. To manage the wiki (administrative tasks), the group "sysop" must be assigned to a user. 	<p>Sonderverrehtung: ^[1]</p> <pre>// Anonymous and logged-in users can read and edit \$this->groupRoles ['*']['reader'] = true; \$this->groupRoles ['*']['editor'] = true;</pre>
Protected wiki	<p>The wiki is visible to anyone. Only logged-in users can edit the wiki.</p> <ul style="list-style-type: none"> All users have edit rights by default. To approve a page (if the approval mechanism is activated in a namespace), the groups "editor" and "reviewer" must be assigned to a user. To manage the wiki (administrative tasks), the group "sysop" must be assigned to a user. 	<p>Sonderverrehtung: ^[1]:</p> <pre>// Anonymous users can read, logged-in users can edit \$this->groupRoles ['*']['reader'] = true; \$this->groupRoles ['*']['editor'] = false; \$this->groupRoles ['user']['editor'] = true;</pre>
Private wiki	<p>Only logged-in users can view and edit the wiki.</p> <ul style="list-style-type: none"> Logged-in users only have veiw permissions. Important! To edit a page, users must be assigned to the "editor" group manually. To approve a page (if the approval mechanism is activated in a namespace), the groups "editor" and "reviewer" must be assigned to a user. 	<p>Sonderverrehtung: ^[1]</p> <pre>// Only logged-in users can read. The group "editor" has to be manually assigned to users. \$this->groupRoles ['*']['reader'] = false; \$this->groupRoles ['*']['editor'] = false; \$this->groupRoles ['user']['reader'] = true; \$this->groupRoles ['user']['editor'] = false; \$this->groupRoles</pre>

Permission type	Description	Special permissions
	<ul style="list-style-type: none">To manage the wiki (administrative tasks), the group "sysop" must be assigned to a user.	<pre>['editor']['editor'] = true; \$this->groupRoles ['sysop']['editor'] = true;</pre>
Custom setup (BlueSpice pro)	Roles and groups are assigned by an administrator. This is necessary if different namespaces need to have different user rights. See the next section for more info.	

1. ↑ [1.0](#) [1.1](#) [1.2](#) Global permissions (modified by the special permissions shown in the table above):

```
'bureaucrat' => [  
'accountmanager' => true  
],  
'sysop' => [  
'reader' => true,  
'editor' => true,  
'reviewer' => true,  
'admin' => true  
],  
'user' => [ 'editor' => true ],  
'editor' => [  
'reader' => true,  
'editor' => true  
],  
'reviewer' => [  
'reader' => true,  
'editor' => true,  
'reviewer' => true
```

Note: In BlueSpice pro Cloud, it is not possible to assign *edit*, *comment*, or *upload* rights to anonymous users.

Custom setup

Die Tabelle zeigt typische Standardeinstellungen für eine einfache Benutzerverwaltung:

Group	Default roles	Purpose of the group	Suggested roles
anonymous user (*)	-	Determines if anonymous users can read wiki pages.	(no role assignment) or <i>reader</i>
		Determines the rights authenticated users have if they don't	<i>reader</i> or

Group	Default roles	Purpose of the group	Suggested rolees
user	reader, editor	belong to any other groups. All groups except for anonymous users initially inherit permissions from this group.	<i>reader, editor</i>
editor	(von user geerbt), editor	Group members can edit the wiki.	<i>(editor)*</i>
reviewer	(von user geerbt), reviewer	Group members can approve page revisions if the approval feature is activated.	<i>reviewer</i>
sysop	(von user geerbt), editor, admin	Grants administrator rights to the wiki. Included in roles: admin, maintenanceadmin	<i>(editor)*, admin</i>
* can be inherited through the group "user"			

Note: If you have saved the personalized settings at least once and then switch back to a "protected" or "private" wiki, you do not lose your latest personalized settings. You can simply resave the latest saved settings to switch back to a wiki with personalized permissions.

About role-based permissions

Roles represent a **collection of individual permissions** that are necessary to perform certain functions in the wiki. For example, for a user who is supposed to only read the wiki, many permissions in addition to the "read" permission are needed: The ability to change their own settings, to search the wiki, to view page ratings, and so on.

All permissions that make up a logical group are encapsulated in a role, in this example the role "reader". If wiki administrators want to grant read-only rights to a user group, they only need to assign that group the "reader" role, instead of assigning many individual permissions that are needed to create a "read"-user.

By assigning roles to a group, all users belonging to that group receive the rights of these roles. Roles are never assigned directly to users, but always to groups instead. Users are then assigned to one or more groups.



As a result, the following administration pages play a role in rights management:

- **Namespace manager:** In the wiki, user groups can be granted different permissions via roles in individual namespaces.
- **Group manager:** Namespace permissions are assigned to user groups, not to individual users.
- **User manager:** Individual users are assigned to groups to obtain the permissions associated with the group.
- **Permission manager:** In the Permission manager, the user groups are assigned to their roles in the namespaces.

The roles matrix

The permission manager consists of the group tree (1) and the role matrix (2):

The screenshot displays the BlueSpice Permission Manager interface. On the left, the 'group tree' (1) shows a hierarchy of user groups: user, editor, groupfeedback, reviewer, and sysop. The 'role matrix' (2) is a table with columns for Role, Wiki, and various namespaces (Pages, Geo/son, Minutes, QM, OM). The 'reader' and 'editor' roles are highlighted in green, indicating they have permissions across all namespaces. The 'Columns' and 'Namespaces' tabs are visible, and the 'Namespaces' tab is selected, showing a list of namespaces on the right, including User, User talk, Project, Project talk, File, File talk, MediaWiki, MediaWiki talk, Template, Template talk, Help, Help talk, Category, Category talk, Property, Property talk, Form, Form talk, Concept, Concept talk, smw/schema, smw/schema talk, Rule, Rule talk, Widget, and Widget talk.

Role	Wiki	(Pages)	Geo/son	Minutes	QM	OM
accountselfcreate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
autocreateaccount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
reader	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
commenter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
author	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
editor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
reviewer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuremanager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
accountmanager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
admin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
bot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
maintenanceadmin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Associating groups with roles in namespaces

The **group tree** shows all existing groups:

- **Group "*":** all non-logged-in (anonymous) users

- **Group "user"**: all logged-in users, the default group for all users
- **Subgroups of group "user"**: all groups that are defined on the wiki, either by default, by MediaWiki, or custom groups created in the [Group manager](#) by an administrator. System groups, created by MediaWiki, can be hidden by unchecking the "Show system groups" checkbox above the tree.

The columns in the **role matrix** are:

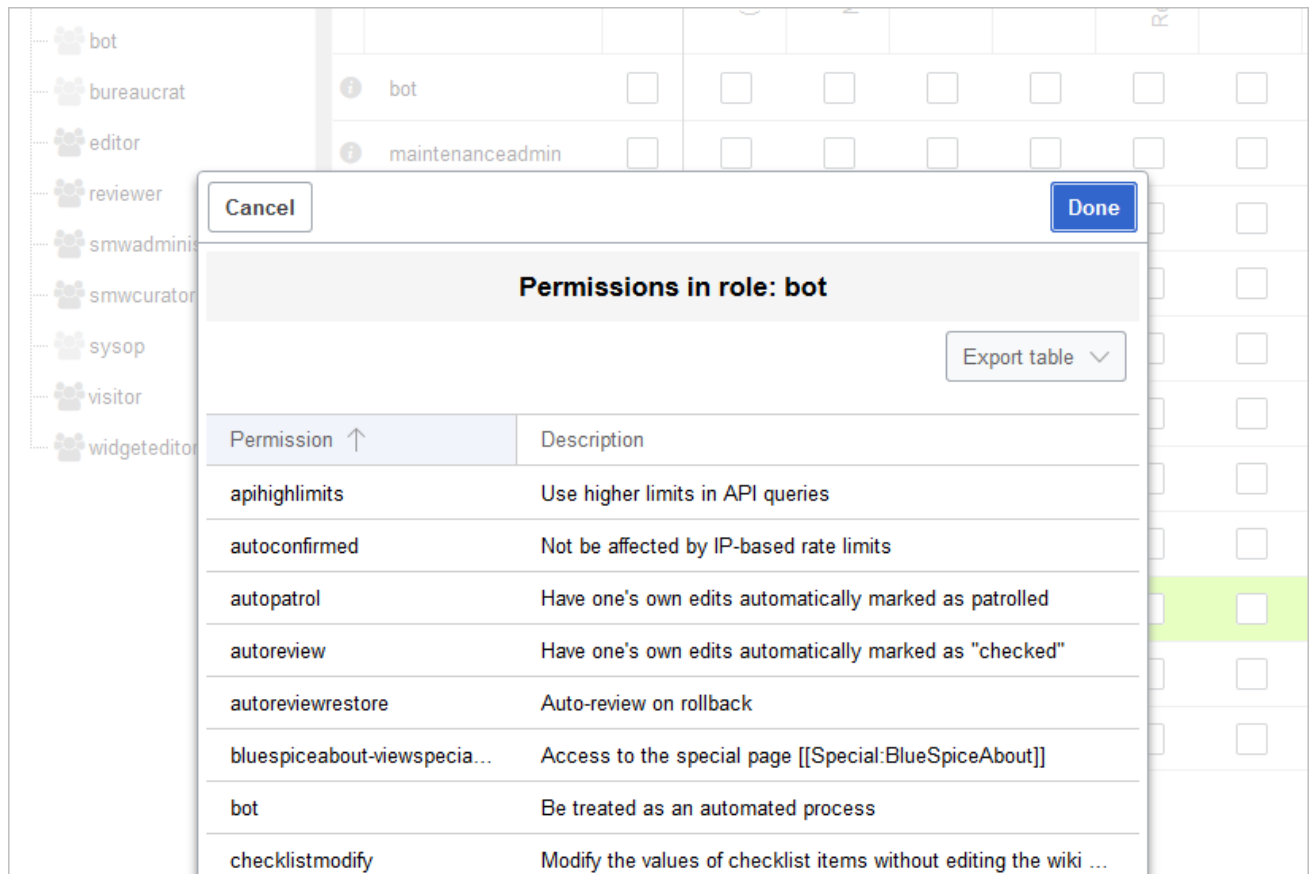
- **Role information** (info icon): Clicking the icon shows all the permissions in a role. This list is exportable.
- **Role name**
- **Wiki**: Assignment of a role to the entire wiki. By assigning the role in this column, a user group gets permissions in this role on the wiki (all namespaces).
- **Individual namespaces**: The following columns list every (applicable) namespace on the wiki.
 - Roles can be assigned to individual namespaces. For example, the group *user* can get the *editor* role only in the namespace *Public*. *Users in this group cannot edit content in any other* . By granting a role to a particular group in a particular namespace, means that all other groups will lose permissions from this role, eg. granting role "reader" in namespace "Private" to group "sysop" means that all users in any other groups won't be able to read pages in "Private" namespace, even if they have "reader" role granted on the wiki level ("Wiki" column).
 - The same role can be granted to multiple groups for the same namespace.
 - Additional namespaces can be added in the matrix by clicking on the arrow in table header, then "Columns". Then the namespaces can be selected.

Role inheritance

By default, all roles granted to the (*) group will be granted to the *user* group, and all roles granted to the *user* group are granted to its subgroups. If a group inherits the role from an upper-level group field, this is indicated in the role matrix with a green background, but the checkbox is empty.

Default roles

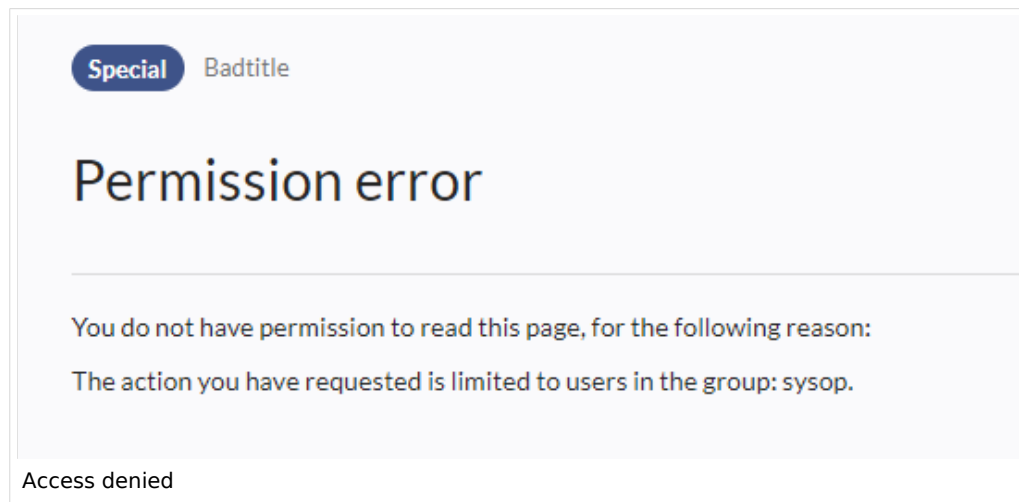
By default, the Permission manager includes a number of predefined roles that serve most user needs. The individual permissions contained in a role can be seen by clicking the info icon in front of the role name. It opens a dialog with a permissions list for the role.



- **bot:** exists to achieve recurring system actions. This role is assigned to the user BSMaintenance in Bluespice via the group bot. The group bot should not be changed.
- **admin:** Grants access to all administrative special pages and to all typical administrative features.
- **maintenanceadmin:** Similar to the *admin* role, but with extended admin rights for maintaining wiki integrity.
- **author:** all permissions necessary for creating content on the wiki. Editing, moving, or deleting pages is not possible.
- **editor:** create content, edit and delete content.
- **reviewer:** If you have activated the review function and, therefore, work draft pages in a namespace, there must be at least one group with the role of reviewer. By default, the group "reviewer" is available for this purpose. Only users in the reviewer role can approve draft pages. Reviewers generally need read, write and review rights via the corresponding three roles of reader, editor and reviewer. However, if you have not activated the review function in any namespace, you do not need this role in your wiki.
- **accountmanager:** enables the administration of user accounts. Since user accounts are managed independently of namespaces in the wiki, this role cannot be restricted to individual namespaces. Grayed-out namespaces have no meaning here as long as the role in the wiki itself is highlighted in green.
- **structuremanager:** allows some actions for wiki maintenance such as moving pages, mass deleting pages or searching and replacing text, as well as renaming namespaces.
- **accountselfcreate:** enables the automatic creation of new user accounts and is required for single-sign-on. You can assign this role, for example, to anonymous users who can create their own account.
- **commenter:** allows the creation of discussion contributions and page ratings, but not of the pages themselves. The editor role includes all the rights of the commenter role. If a group has editor rights, it does not need special commenter rights.
- **reader:** Basic read access. Users can also edit their personal settings.

Restricting read permissions

It is possible to limit read permissions in a namespace by explicitly assigning the role *reader* to one or more particular groups. When users in other groups try to access a page in such a namespace, they will get a message that the permissions are denied.



While a user cannot access the content of the page, the wiki still shows links to these pages to all users in some contexts, even if a user does not have permissions to access the page content itself.

The following lists show which extensions or functionalities do not show links to restricted pages — because they are permissions-aware — and where the links are shown regardless of permissions.

Extensions that are permissions-aware

Query results and page lists provided by the following extensions do not show links to pages to which the current user has no access on the namespace level:

- [ExtendedSearch](#) (and functionality based on Extended Search in general, e.g. [TagSearch](#), [ExtendedFilelist](#)).
- [Semantic MediaWiki](#)
- [TopList](#)

Extensions and special pages that are not permissions-aware

Extensions that provide page lists and that do not hide links to read-restricted pages to the affected users. Examples:

- [DynamicPageList3](#)
- [SmartList](#)
- [WatchList](#) (both the tag and the special page)

In general, all MediaWiki special pages do not check permissions and therefore list these pages for the affected users. Most common examples:

- Special:All pages
- Special:RecentChanges
- Special:Bookshelf (**Note:** If this is an issue, you can limit access to the namespace *Book* to selected groups. The page *Special:Bookshelf* then won't show any links to books to users who do not have access to the *Book* namespace. Links to individual books can then be provided on various portal pages as needed).
- Category pages: All pages in the namespace *Category*

Limited transclusion

If you explicitly assign the *reader* role (or any other role that contains the *read* permission) in a namespace to a group or groups, that namespace is automatically configured so that its content cannot be transcluded. This is for security reasons, since MediaWiki does not check permissions when transcluding content.

Technical info

Logging

Every change to the roles is logged in `Special:Log`, in the `Permission Manager log`. These logs are available only to wiki administrators (users in groups with the role *admin*).

Configuration

All changes to the role matrix are backed up. By default, the last 5 backups are kept. This limit can be changed in [Config manager](#), under extension BlueSpicePermissionManager.

- **Backup limit:** Sets the number of backups for the permissions manager. Each time the page *Special:PermissionManager* is saved, a backup is created. If the backup limit is set to 5, the last five versions of the permissions configuration are saved as backups.

Related info

- [Reference:BlueSpicePermissionManager](#)
- [Group manager](#)

➔ [Technical Reference: BlueSpicePermissionManager](#)

Custom menu

Redirect to:

- [Manual:Extension/BlueSpiceCustomMenu](#)

➔ [Technical Reference: CustomMenu](#)

Customizing the user interface

Contents

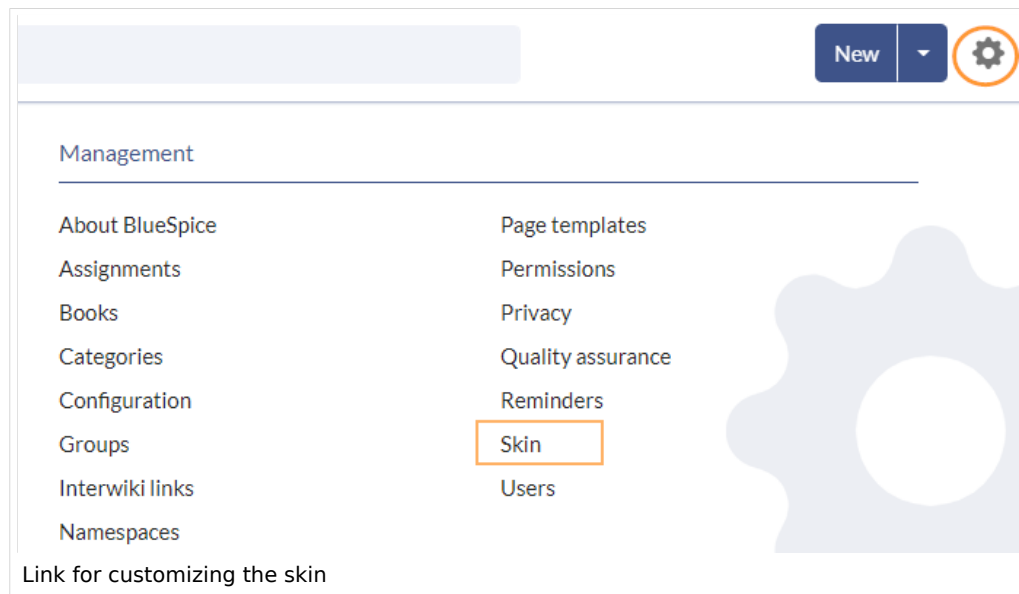
1 Access	48
2 Logo and Favicon	48
2.1 Logo	48
2.2 Favicon	49
3 Layout colors	49
4 Content	51
4.1 Colors	51
4.2 Font	51
4.3 Layout	51
4.4 Headers	51
5 Free CSS	52
5.1 Neutral page tools (right sidebar)	52
5.2 Neutral top bar backgrounds and hovers	53

Access

You can access the special page (*Special:FlexiSkin*) for customizing the skin from the *Global actions* menu:

⚙️ (*Global actions*) > *Management* > *Skin*

The page allows you to customize the logo, favicon, colors and font settings of the wiki. To edit the page, you need *admin*-rights in the wiki.



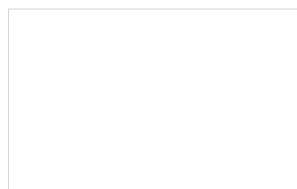
Important! If you don't see the changes in the wiki after saving your settings, you need to clear your browser cache (**Ctrl** + **F5**).

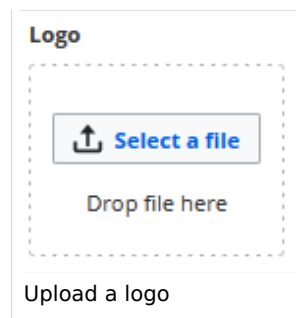
Logo and Favicon

Logo

To upload your logo:

1. **Click** *Select a file* to choose a file from your file explorer **or drag the file** into the dotted area of the Logo upload area.





2. **Click** the *Preview* button on the page and check the placement of the logo.
3. **Click** *Save & activate*. The logo is now visible for all users.

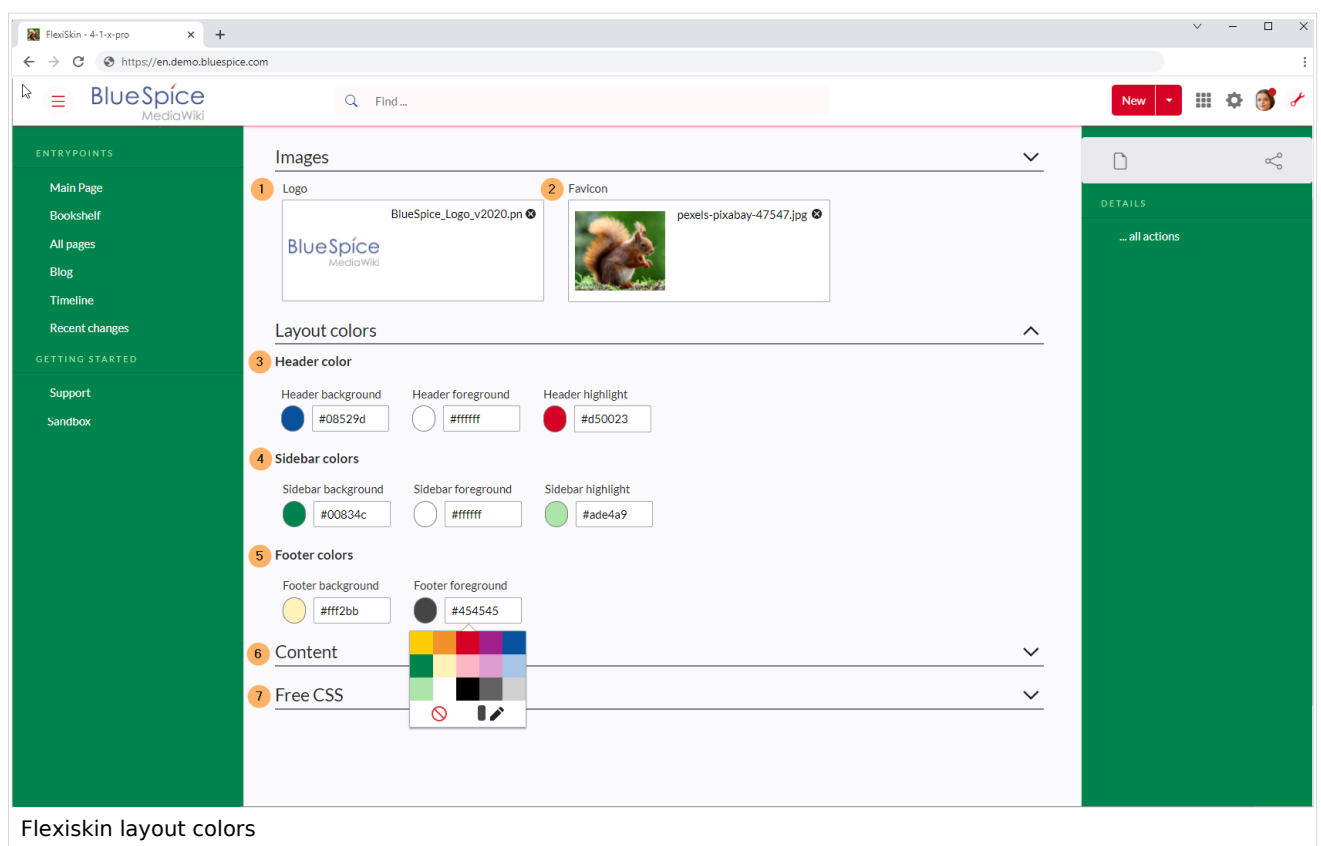
To use **a different logo**, click the "x" symbol in the upload area of the logo and repeat the steps above.

Favicon

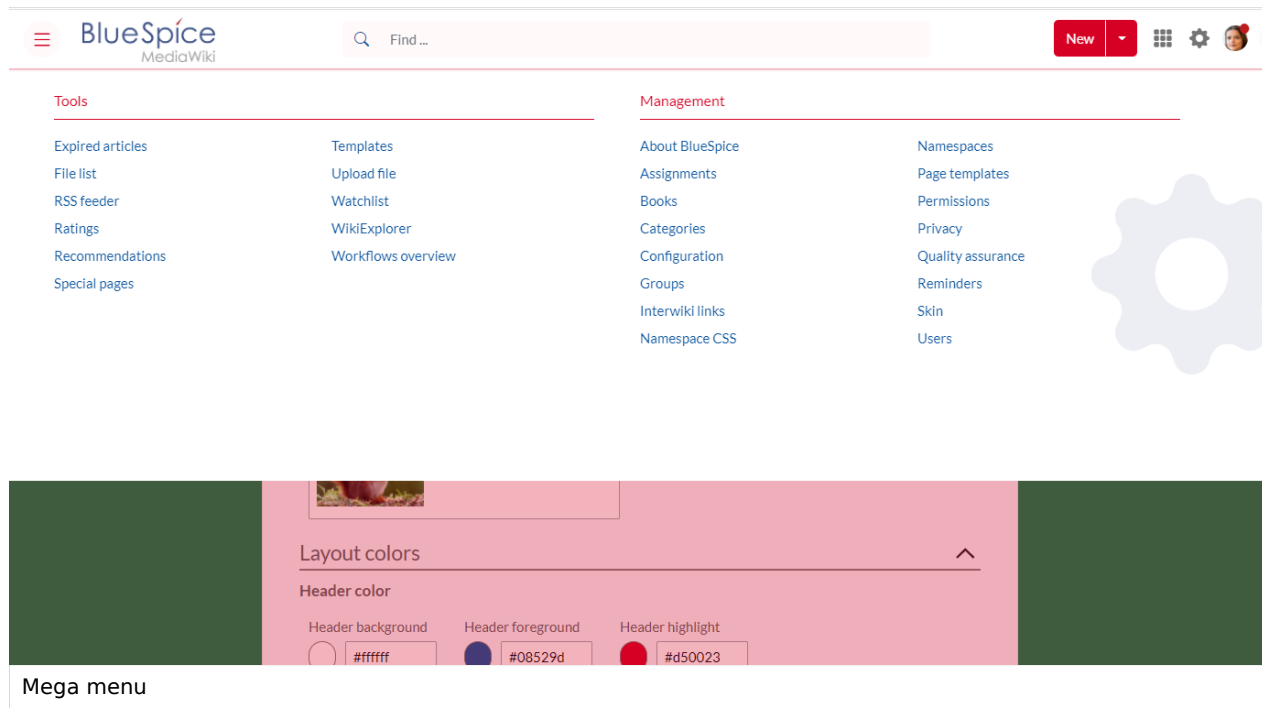
The favicon is the image that is shown in the browser tabs. Follow the [steps for uploading a logo](#), just use the favicon upload area instead.

Layout colors

Here you can adjust the colors of the individual layout areas.



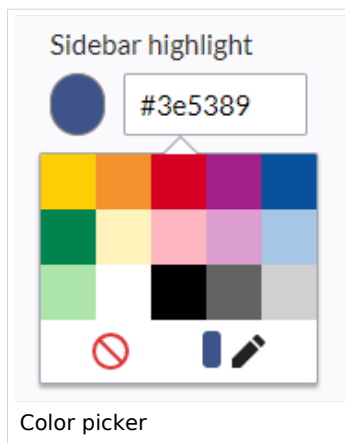
- **Header color (3):** Color settings for the header bar. These colors also apply to the mega menus.



- **Sidebar colors (4):** Color settings for the main navigation and the page tools.
- **Footer colors (5):** Color settings for the footer.

The following options to enter a color value are available:

- **Standard color palette:** A standard color can be selected by clicking on a color preview.



- **Pencil symbol:** Click on the pencil symbol to select a color from the color mixer.
- **Manually entering a value:** To provide a custom value (e.g., your for your CI colors), enter the hex-value for the color.

If you delete a color and FlexiSkin is saved with one or more empty color values, the standard colors of the Discovery skin are saved as values instead.

Standardfarben des "Discovery"-Skin

	Background	Foreground	Highlight
Header	#ffffff	#252525	#3e5389

	Background	Foreground	Highlight
Sidebar	#f1f3f9	#252525	#3e5389
Footer	#d3d3d3	#454545	-

Content

These settings apply to all styles of the content area of a wiki page:

Colors

Here you can adjust the background, font and link colors. Broken links in the wiki are shown in red by default so that they can be easily identified. You should carefully consider whether you want to deviate from this convention. If you want to color visited links differently than standard links, you can insert the following setting in the Free CSS area:

```
#mw-content-text a:visited,[class^="mw-content-"] a:visited {color: #951b81;}
```

Font

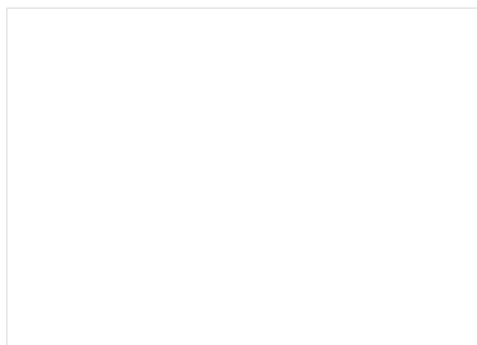
The font settings only apply to the text in the content area. The text in other areas such as B. in the navigation and toolbars or in the menus is not affected.

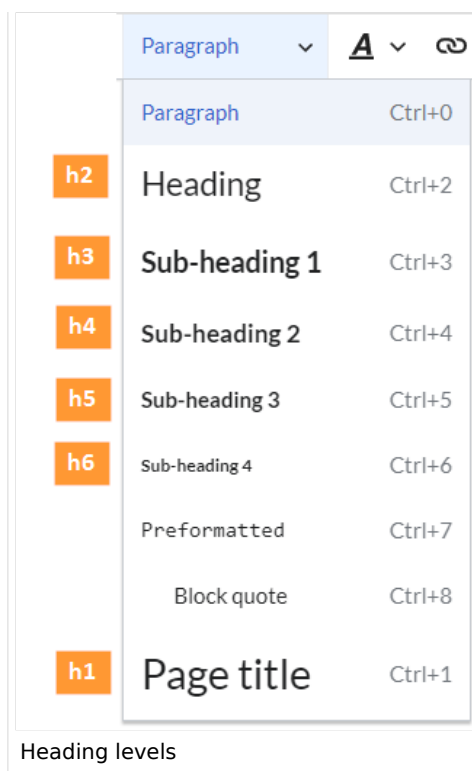
Layout

If you want to change the layout width just test it on many devices to make sure your setting works as intended. Other wiki users work with different display settings and can be negatively affected by this change. Unless you have a specific reason to change the content width, you shouldn't adjust this setting. The standard content width is 61.25 rem.

Headers

You can adjust the color, font size and underlining for all heading levels. You can also change the unit for the font settings (e.g. *px* instead of *rem*). If you are not familiar with the differences between these units, just leave the default setting, *rem*. This is based on the superordinate size setting in the wiki. In contrast, *em* sizes are in relation to the enclosing container.





Free CSS

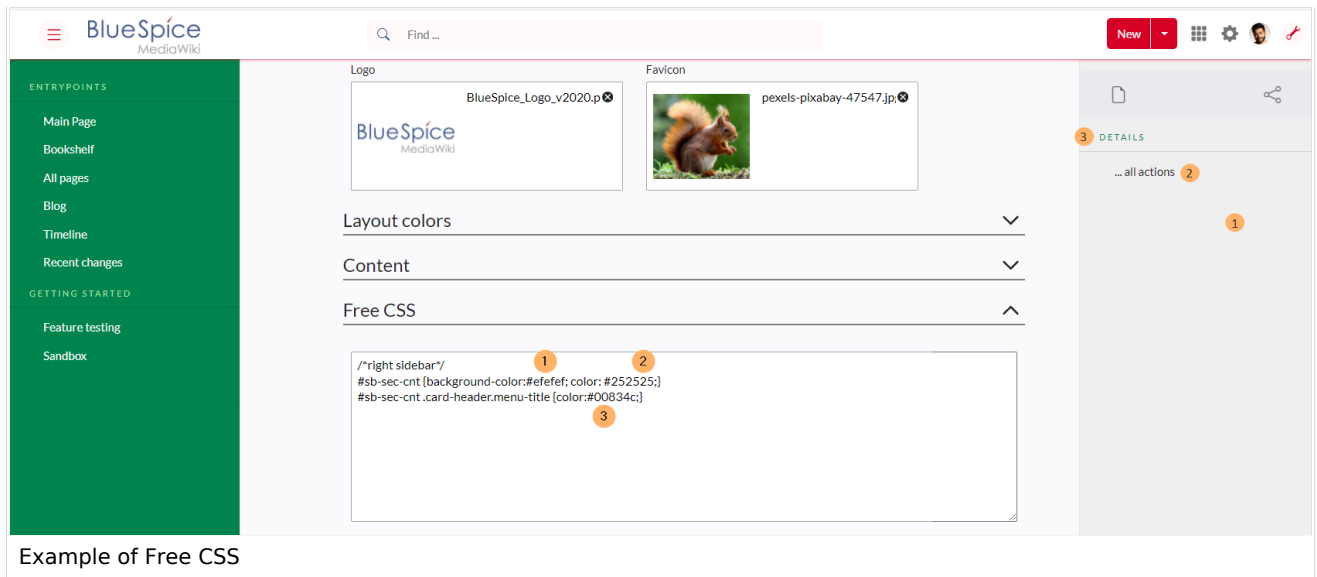
Note: If the same styles are defined in both FlexiSkin or FlexiSkin Free CSS and in MediaWiki:Common.css, the styles from Common.css are applied.

For additional customizations that are not possible with the FlexiSkin settings, you can use the *Free CSS* field if you are familiar with CSS. Here are some examples.

Neutral page tools (right sidebar)

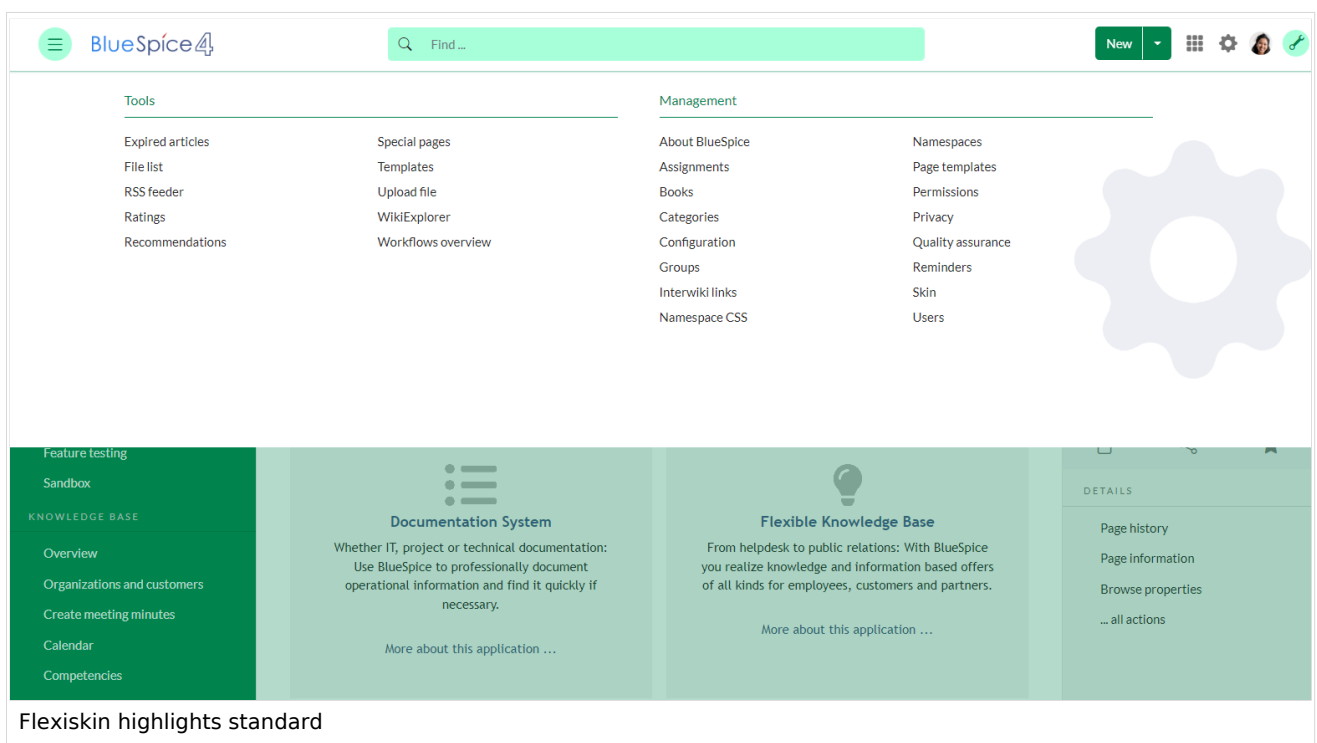
If you select a color for your left navigation bar, you sometimes don't want the color to be applied to the right sidebar (the page tools). To keep the light-grey background, add the following Free CSS:

```
/*right sidebar*/
#sb-sec-cnt {background-color:#efefef; color:#252525;}
#sb-sec-cnt .card-header.menu-title {color:#747474;}
```



Neutral top bar backgrounds and hovers

When you set the header highlight color, it can happen that the automatically calculated values for the searchbar as well as the button hovers and backgrounds don't fit your needs.



In this case, you can neutralize them to grey.

Add the following Free CSS:

```
/*top bar neutral search box, button backgrounds and hovers */
#nb-pri form input, #nb-pri form button{border-color:#f1f3f3}
#nb-pri form input, #nb-pri form button,#sb-pri-tgl-btn, #sb-pri-tgl-btn:hover,.mws-
dropdown-primary.dropdown-menu a:hover,a.ico-btn:hover, a#sb-sec-tgl-btn, #nb-pri form
.bs-extendedsearch-searchbar-clear {background:#f1f3f3}
.mws-button-primary:hover {background-color:#747474; color:#fff}
/*top bar neutral bottom border*/
#nb-pri {box-shadow: 0 0 4px 0 #747474}
.card.mega-menu {box-shadow: inset 0 2px 3px -2px #747474}
/*mega menu neutral bottom overlay*/
@media (min-width: 768px){.dropdown-menu.megamenu .mm-bg {background-color:#747474}}
```

➔ [Technical Reference: FlexiSkin](#)

Workflows

Contents

[1 Introduction](#) [56](#)

2 Workflow activities	56
2.1 Single user approval	56
2.2 Expert document control	57
2.3 Group feedback	59
2.4 Feedback	60
3 Overview page	60
3.1 Tasks overview	61
4 Notifications	61
4.1 Events that trigger notifications	61
4.2 Sending out notifications	62
5 Workflow triggers	62
6 How to add a custom workflow	62
7 Permissions	63
8 Example tutorial	63

Introduction

In BlueSpice 4.1, workflows are based on [BPMN 2.0](#). Four different types of page-based workflows are already integrated. Their purpose is a page review to obtain feedback via a user vote or to trigger a page approval. In the following, these workflows are therefore called review workflows.

Types of reviews

Workflow type	Participants	Description
Single user approval	1 user	A single user is asked to vote about a page. If a user submits a positive vote, the page is automatically approved.
Expert document control	3 users	After a page has been edited by a specific user, the page is reviewed by an expert and then approved by a user who is responsible for approvals.
Group feedback	1 group	A group (which needs to exist in the group manager) is requested to leave a comment on a page.
Single user feedback	1 user	A user is asked to send a comment regarding a page.

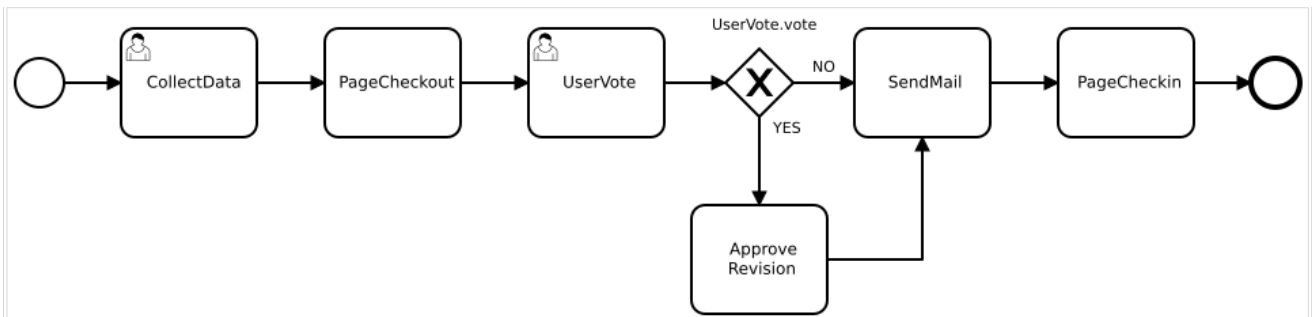
Workflow activities

All approval workflows start with a form where the necessary workflow data is entered by the workflow initiator. Each workflow results in one or more workflow activities.

Single user approval

Purpose: Approval of a draft page by a user with approval rights. This workflow only makes sense if the approval function ([FlaggedRevs](#)) is activated on a page.

Workflow instances: Only one approval workflow can run per page.



BPMN diagram of a "Single user approval" workflow

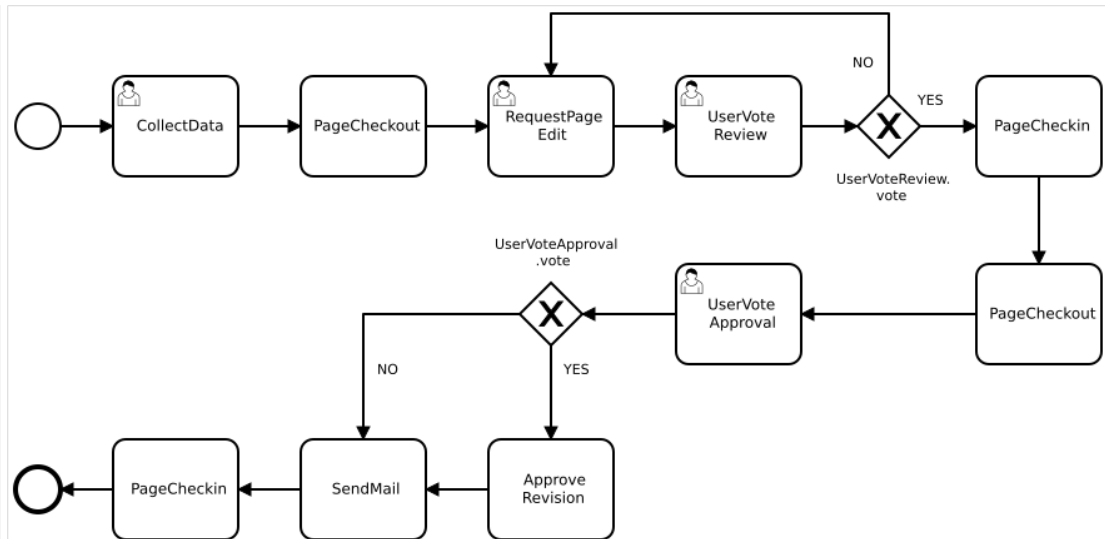
Activity	Description
CollectData	In the first workflow step, the workflow initiator enters the settings: <ul style="list-style-type: none">• <i>User</i>: ser who is assigned to the task.• <i>Instructions</i>: A comment or instructions for the user to understand the task.• <i>Send report to</i>: An email report with the results will be sent to this email address when the review is finished. If a username is specified here, an email address must be stored in the user administration so that the report can be sent.
PageCheckout	The page is locked for editing. The reviewer also cannot make any edits.
UserVote	The assigned user carries out a vote and either accepts the page or rejects it. Alternatively, the task can be delegated. In the event of a rejection, the workflow skips the next step (ApprovePage). The workflow initiator gets an email about the voting result.
ApprovePage	Only if the user has submitted a positive vote (accept), the page is set to an approved state.
SendMail	An email report is sent to the report recipient who was specified in the first step.
PageCheckin	The page is unlocked.

[→ View BPMN](#)

Expert document control

Purpose: Approval of a draft page according to the "4-eyes principle".

Workflow instances: A page can only have one approval workflow at a time.



BPMN diagram of the "Expert document control" workflow

Activity	Description
CollectData	<p>In the first workflow step, the workflow initiator enters the settings:</p> <p><i>User:</i> User who is assigned to a task. Three different users have to be specified: Editor, Reviewer, Approver</p> <p><i>Instructions:</i> A comment or instructions for the users to understand their tasks.</p> <p><i>Send report to:</i> An email report with the results will be sent to this email address when the review is finished. If a username is specified here, an email address must be stored in the user administration so that the report can be sent.</p>
PageCheckout	<p>The page is locked for users who do not participate in the workflow. Only the Editor (first workflow participant) can edit the page during checkout. While the Reviewer (second participant) of the workflow is reviewing the page, the page stays checked-out to thecan edit the page can edit the page during checkout.checkout. in case the Reviewer requests more edits.</p>
EditPage	<p>The Editor user can edit the page and completes the task without comment.</p>
UserVote	<p>After the Editor step has been completed, the Reviewer user can review the page and submit a vote. Editing by the Reviewer is not possible. As an alternative, the Reviewer can delegate the task. If the vote is positive (Approve), the workflow continues. If the Reviewer rejects, the workflow goes back to the Editor.</p> <p>The workflow initiator gets an email about the voting result.</p>

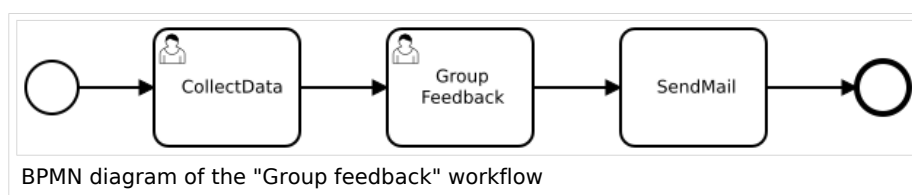
Activity	Description
PageCheckin	After the Reviewer submits a positive vote (accept), the page is checked in and the workflow continues.
PageCheckout	In this step, the page checkout locks the page for editing completely. The Approver user will not be able to change the page, but needs to approve it.
ApprovePage	The Approver can either complete or delegate the task. After the Approver (or the delegate) finishes the assigned task, the page is set from "draft" to "approved" status if the page was in draft status (only if the approver submits a positive vote). If not, this step is skipped.
SendMail	If an email or user was specified in the workflow settings, the report is now getting sent to that user.
PageCheckin	The page gets unlocked for editing.

→ [view BPMN](#)

Group feedback

Purpose: Obtaining feedback from the members of a user group. The group must exist in the [group manager](#).

Workflow instances: Several feedback workflows can run independently of one another on one page at the same time.



Activity	Description
CollectData	In the first workflow step, the workflow initiator enters the settings: <ul style="list-style-type: none">• <i>Group:</i> User group who is assigned to the task.• <i>Instructions:</i> A comment or instructions for the users to understand their task.• <i>Send report to:</i> An email report with the results will be sent to this email address when the review is finished. If a username is specified here, an email address must be stored in the user administration so that the report can be sent.
	All users in the assigned group provide feedback via a comment field.

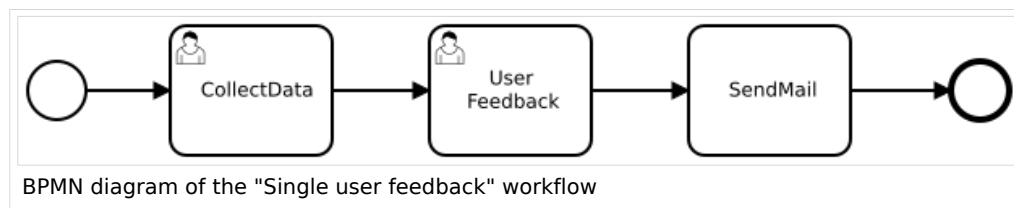
Activity	Description
GroupFeedback	This is a parallel workflow, which means that the order of the feedback does not matter.
SendMail	If an email or user was specified in the workflow settings, the report is now getting sent to that user.

→ [view BPMN](#)

Feedback

Purpose: Obtaining feedback from a single user on a page.

Workflow instances: Multiple feedback workflows can run independently of one another on one page at the same time.



Activity	Description
CollectData	In the first workflow step, the workflow initiator enters the settings: <ul style="list-style-type: none">• <i>User:</i> User who is assigned to the task.• <i>Instructions:</i> A comment or instructions for the users to understand their task.• <i>Send report to:</i> An email report with the results will be sent to this email address when the review is finished. If a username is specified here, an email address must be stored in the user administration so that the report can be sent.
UserFeedback	The assigned user sends a comment.
SendMail	If an email or user was specified in the workflow settings, the report is now getting sent to that user.

→ [view BPMN](#)

Overview page

All workflows in the wiki are listed on the page *Special:Workflows overview*. A view for all *active* workflows and a view for *all* workflows can be selected.

Workflows related to this page							×
All	Active						
Type	Subject page	Current tasks	State	Started on	Last activity on		
Group Feedback	Main Page	-	Aborted	14:47, 29 November 2021	14:49, 29 November 2021	see details	
Single user feedback	Main Page	-	Finished	15:43, 3 November 2021	15:43, 3 November 2021	see details	
Expert document control	Main Page	UserVoteReview	Active	12:20, 21 December 2021	12:20, 21 December 2021	see details	
Single user feedback	Main Page	-	Finished	16:34, 20 December 2021	17:13, 20 December 2021	see details	
< 1 of 3 >							25 rows
Workflows overview page							

Tasks overview

Users are informed about new and pending tasks in their notifications. They can view assigned workflows on their [My tasks](#) page.

Notifications

Events that trigger notifications

There are two types of events that trigger notification

- **generic:** notifications happen for every workflow/activity type
- **activity-specific:** activities themselves can decide to send additional notifications

Triggering event	Recipients	Generic	Notes
Task started (task assigned)	All assigned users	Yes	Only triggered for type <i>UserInteractiveActivity</i> , i.e., only for activities that have users assigned.
UserVote	Initiator	Yes	The workflow initiator gets an email about the voting result.
Workflow aborted (manual or automatic)	Initiator and all users that were assigned to the current task at time of aborting (not users who were assigned on previous tasks)	Yes	

Triggering event	Recipients	Generic	Notes
Workflow ended (only when naturally ended, not when aborted)	Initiator	Yes	
DueDateClose (2 days before Workflow will expire)	Initiator and all currently assigned users	Yes	
Workflow expired	Initiator and all currently assigned users	Yes	Expiration is just a type of workflow abort, so the same notification as for abort will be sent with the reason explaining that the workflow expired.
Task delegated	User to whom the task was delegated	No	Specific to <i>UserVote</i> activity. After delegation, the newly assigned user will be considered assigned and will receive all further notifications that go out to assigned users.

Sending out notifications

- Users can choose whether to subscribe to e-mail notifications in their preferences. All users are force-subscribed to web notifications.
- Web notifications are sent out immediately after triggering, while email notifications will be sent async, on `runJobs.php` execution. This applies to notifications in general, not only to workflows

Workflow triggers

Workflows can either be started manually on each wiki page or started only under certain conditions using individual [workflow triggers](#). Triggers also allow to define in which namespaces both manual and automatic workflows are available.

How to add a custom workflow

Users can upload an xml-file of a BPMN diagram with custom activities to the wiki. Currently, the following predefined activities exist:

Extension: Workflows

- [CustomForm](#)
- [UserVote](#)
- [GroupVote](#)
- [UserFeedback](#)
- [GroupFeedback](#)
- [SendMail](#)
- [EditRequest](#)

Extension: PageCheckout

- [PageCheckOut](#)
- [PageCheckIn](#)

Extension: BlueSpiceFlaggedRevsConnector

- [ApprovePage](#)

Example of a customized workflow (coming soon)

Permissions

The following permissions are used by this extension:

Permission	Included in role	Description
workflows-view	reader	<ul style="list-style-type: none">• allows viewing workflow elements, including listing of workflows (e.g., viewing all running workflows on a page)• user can view the page <i>Special:Workflows_overview</i>
workflows-execute	editor, reviewer, admin	<ul style="list-style-type: none">• allows starting a workflow and executing a task
workflows-admin	admin	<ul style="list-style-type: none">• allows aborting, restoring and administering all workflows• user fcdan view and edit the page <i>MediaWiki:WorkflowTriggers</i>

Example tutorial

You can follow our [tutorial for creating a custom workflow](#) that allows users to classify a document and notify a user about the classification.

[Technical Reference: Workflows](#)

Semantic MediaWiki Basics

Contents

1 Scope and terminology	65
2 Define properties	68
3 Create a template	68
4 Create a form	68
5 Assign a category	69
6 Example	69

Scope and terminology

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



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

Hallo Welt! was founded to make the technology and concept

Since 2007 Hallo Welt! builds collaborative platforms of knowl
online documentation and quality management.


Semantic template

Form



Location:

Contact person:

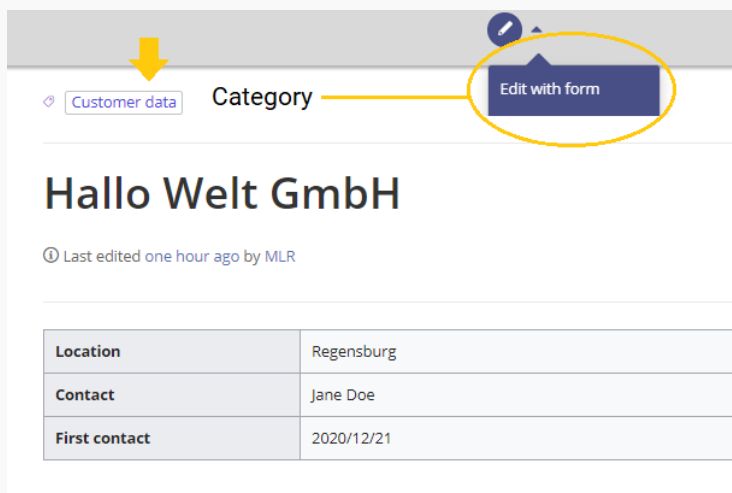
First contact: 

Free text:

Hallo Welt! was founded to make the technology and concept c

Since 2007 Hallo Welt! builds collaborative platforms of knowle
management, online documentation and quality management.

Data entry form



The screenshot shows the top of a data entry form. A yellow arrow points to the 'Customer data' category label. Another yellow arrow points to the 'Edit with form' button, which is circled in yellow. Below the category, the title 'Hallo Welt GmbH' is displayed, followed by a note 'Last edited one hour ago by MLR'. A table below contains the data entry fields.

Location	Regensburg
Contact	Jane Doe
First contact	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

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

BlueSpice free Download

Download options

BlueSpice free is available at the following websites:

- [BlueSpice homepage](#): BlueSpice free is downloaded as Installer which includes a MediaWiki 1.35.
- [Sourceforge](#) (Downloads also for previous BlueSpice free versions)

Before using the Installer

For a successful installation with the BlueSpice free Installer, it is important to review the system requirements and to configure the server environment. We have prepared detailed instructions for preparing your system:

1. [BlueSpice system requirements](#)
2. Blue Spice system preparation
 1. Windows (currently being revised)
 2. [Linux](#)

To make your BlueSpice setup as easy as possible, we provide installation instructions for installing BlueSpice with Installer. These can be found in our [Installation Guide](#).

Setup:Installation Guide

Note: For general questions regarding the installation, maintenance, and usage of BlueSpice free, go to our [community forum](#).

Contents

- 1 Introduction 71
- 2 Check the system requirements 71
- 3 Prepare the server environment 71
- 4 Install the BlueSpice application 71
- 5 Upgrade and patch updates 71
- 6 Migration from MediaWiki to BlueSpice 71
- 7 Optimize the configuration 71
 - 7.1 Webservices for Apache Tomcat 71
 - 7.2 Additional settings and optimizations 72
 - 7.3 Security settings 72
 - 7.4 Compendium 72

Introduction

We are happy that you decided to install the latest version of BlueSpice 4.

Please follow these steps:

1. [Check the system requirements](#)
2. [Prepare the server environment](#)
3. [Install the BlueSpice application](#)
4. [Optimize the configuration](#)

Check the system requirements

- [System requirements](#)

Prepare the server environment

- [Linux server environment](#)
- [Windows server environment](#)

Install the BlueSpice application

Please select which installation type you need:

- [Full BlueSpice installation](#)
 - Extended Functions: [VisualEditor](#), [ExtendedSearch](#)
- [BlueSpice WikiFarm installation](#)
- [Docker image](#)

Upgrade and patch updates

- [Patch update from BlueSpice 4.2.x to a higher version 4.2.x+n](#)
- [Upgrade from BlueSpice 3.2.x to BlueSpice 4.2.x](#)

Migration from MediaWiki to BlueSpice

- [Migration from MediaWiki to BlueSpice](#)

Optimize the configuration

If you don't need to set up a server environment "from scratch", you can directly refer to the setup instructions for individual system components. Just make sure that you really have everything configured as needed:

Webservices for Apache Tomcat

- [Drawio](#)
- [Mathoid](#)
- [PDF-Export](#)

Additional settings and optimizations

- [Caching](#)
- [Cronjobs](#)
- [Time Zone](#)

Security settings

- [File System Permissions](#)
- [Save Directories](#)

Compendium

- [Backup](#)
- [Configuration Folder settings.d](#)
- [ExtendedSearch Configuration](#)
- [Folder structure under Windows](#)
- [Maintenance scripts](#)
- [Maintenance scripts/batchStabilize](#)
- [Maintenance scripts/dumpPDF](#)
- [Maintenance scripts/executeTransfer](#)
- [Maintenance scripts/export](#)
- [Performance Optimization](#)
- [Performance Optimization/ManualRecache](#)
- [Performance Optimization/MySQL](#)
- [Performance Optimization/PHP](#)
- [VisualEditor Configuration](#)
- [Windows Folder Structure](#)

Setup:Installation Guide/Security Patches 3.2.8

Note: Instructions on this page only apply to BlueSpice 3.2.8. They will become obsolete once BlueSpice 3.2.9 is published!

Applying security patches from MediaWiki 1.35.5 to BlueSpice 3

Recent security fixes to MediaWiki 1.35 have been backported to MediaWiki 1.31, which is the base of BlueSpice 3.2. The patches are available for download on [SourceForge](#).

The following instructions are based on Linux installations. But they can be executed in the same way on a Windows system using an appropriate shell, like [git bash](#), [cygwin](#) and similar.

Given `<bluespice>` is the installation path of the BlueSpice wiki application, you can apply the patches like this: #

```
cd <bluespice>/_bluespice
wget https://sourceforge.net/projects/bluespice/files/BlueSpice-3.2.8-MW1.35.5-fixes.tar.gz
tar xfvz BlueSpice-3.2.8-MW1.35.5-fixes.tar.gz
cd ..
bash _bluespice/pre-autoload-dump.d/99-apply_patches.sh
```

After a successful run, the output should be like this:

```
Patching: includes/actions/RollbackAction.php ==> DONE!
Patching: includes/actions/Action.php ==> DONE!
Patching: includes/actions/ViewAction.php ==> DONE!
Patching: includes/specials/SpecialChangeContentModel.php ==> DONE!
Patching: includes/MediaWiki.php ==> DONE!
Patching: includes/EditPage.php ==> DONE!
Patching: extensions/VisualEditor/modules/ve-mw/ui/dialogs/ve.ui.MWMediaDialog.js ==>
DONE!
```

There may be additional lines of output, based on the edition of BlueSpice.

Setup:Release History

Note: Support für BlueSpice 3.x ended on March 15, 2023.

BlueSpice versioning follows the *Semantic Versioning Specification* from semver.org.

Major Release	Version	Published	Details	Type
	4.4.2	March 18, 2024	Release notes	Patch release
	4.4.1	February 15, 2024	Release notes	Patch release

Major Release	Version	Published	Details	Type
BlueSpice 4	4.4	December 07, 2023	Description , Release notes	Minor release
	4.3.3	October 19, 2023	Release notes	Patch release
	4.3.2	September 14, 2023	Release notes	Patch release
	4.3.1	July 20, 2023	Release notes	Patch release
	4.3	June 29, 2023	Description , Release notes	Minor release Triggers content changes
	4.2.7	May 22, 2023	Release notes	Patch release
	4.2.6	March 16, 2023	Release notes	Patch release
	4.2.5	February 21, 2023	Release notes	Patch release
	4.2.4	December 15, 2022	Release notes	Patch release
	4.2.3	November 17, 2022	Release notes	Patch release
	4.2.2	October 27, 2022	Release notes	Patch release
	4.2.1	September 15, 2022	Release notes	Patch release Security patch!
	4.2	July 28, 2022	Description , Release notes	Minor release Triggers content changes
				Patch release

Major Release	Version	Published	Details	Type
	4.1.4	June 15, 2022	Release notes	Security patch!
	4.1.3	April 26, 2022	Release notes	Patch release Security patch!
	4.1.2	March 17, 2022	Release notes	Patch release
	4.1.1	February 10, 2022	Release notes	Patch release
	4.1.0	January 19, 2022	Description , Release notes	Combined major /minor release
4.1.0-RC2	(Release candidate: December 15, 2021)	Description	Combined major /minor release	
BlueSpice 1-3	Release history			

Setup: System requirements

For a trouble-free installation of the current version of BlueSpice 4, we recommend the following system requirements.

Browser

- Microsoft Edge
- Google Chrome
- Firefox

Server Environment

- **Operating system:**
 - We strongly recommend Linux (preferably Debian 11, Ubuntu 22.04, CentOS 7)

- You might use Windows Server starting at 2016, but we have seen performance issues on Windows Server
- **Webserver:**
 - Apache 2.4.x, IIS >= 10 *or* nginx 1.x (*nginx not possible in WikiFarm*)
- **PHP:**
 - PHP 8.1 / PHP 8.2
- **Database:**
 - MySQL: >= 5.6 *or*
 - MariaDB >= 10.3
- **(Virtual) hardware requirements:**
 - **CPU:**
 - **Linux: 8 Cores** (min. 4 Cores)
 - Windows: 16 Cores (min. 8 Cores)
 - **Main memory:**
 - **Linux: 16 GB** (min. 8GB)
 - Windows: min. 16 GB
 - **Available hard drive space:**
 - > 20 GB (depends on the planned storage of data)
- **Other:**
 - Apache Tomcat >= 9 *oder* Jetty >= 9 (for PDF export and LaTeXRenderer)
 - Elasticsearch 6.8 with plugin "ingest-attachment"
 - OpenJDK >= 10
 - NodeJS 16