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Setup:Installation Guide/System Preparation/Windows/Parsoid

A quality version of this page, approved on *4 November 2021*, was based off this revision.

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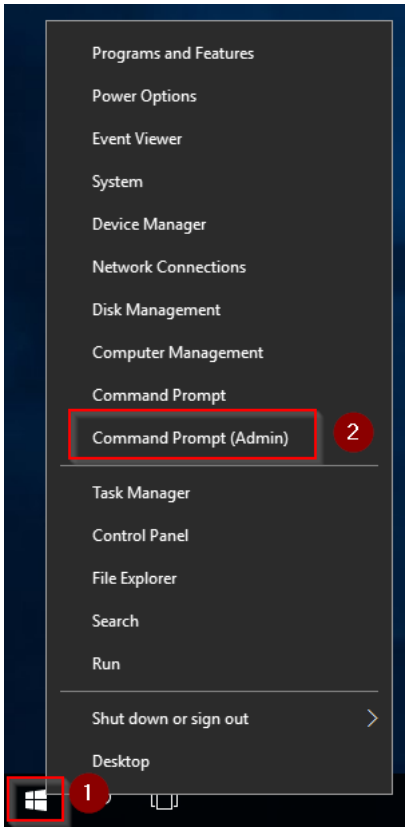
Parsoid is the rendering service for the Visual Editor. The steps listed here are optional and only required if you want to use Visual Editor in your BlueSpice installation. After your BlueSpice Installation, you still have to activate VisualEditor.

For the installation and operation of Parsoid, Git and Node.js are required. If you have not installed them yet, follow the links that are provided here.

Installing Parsoid

Important! Please make sure to use the correct version of Parsoid during installation. The currently supported version is Parsoid 0.10.0.

1. First, open the Windows Command Prompt as administrator. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):



2. Change into the directory C:\bluespice\bin\npm\node_modules and execute the command:

```
npm install --global parsoid
```

3. Change into the parsoid directory C:\bluespice\bin\npm\node_modules\parsoid:

```
cd parsoid
```

4. Execute the command:

```
npm install
```

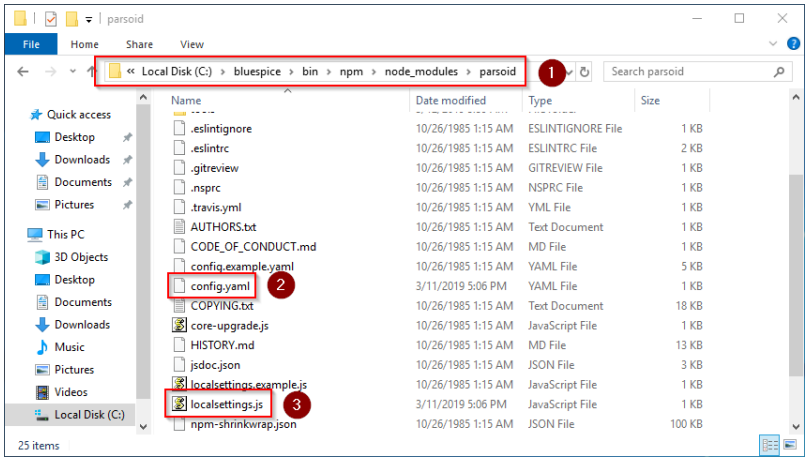
Keep the command prompt open and complete the next steps.

Creating the configuration file

In the BlueSpice codebase you will find two files in the folder `extensions/BlueSpiceVisualEditorConnector/docs/parsoid`:

- config.yaml
- localsettings.js

Copy them into the folder C:\bluespice\bin\npm\node_modules\parsoid\.

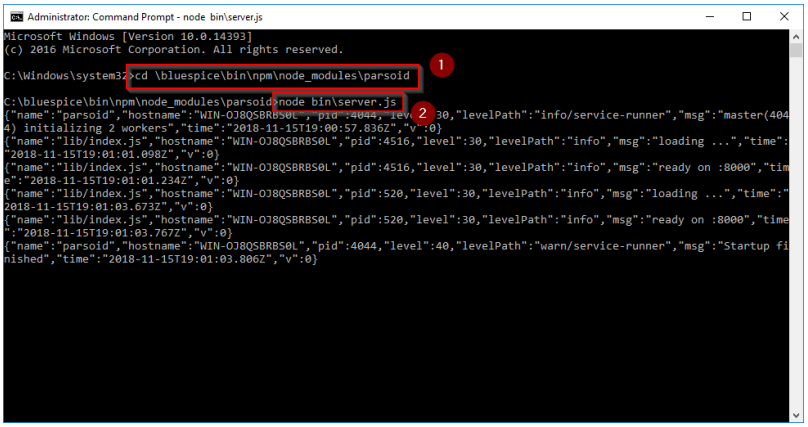


This provides an already finished configuration of Parsoid, which should work in the standard setup without further iadjustments.

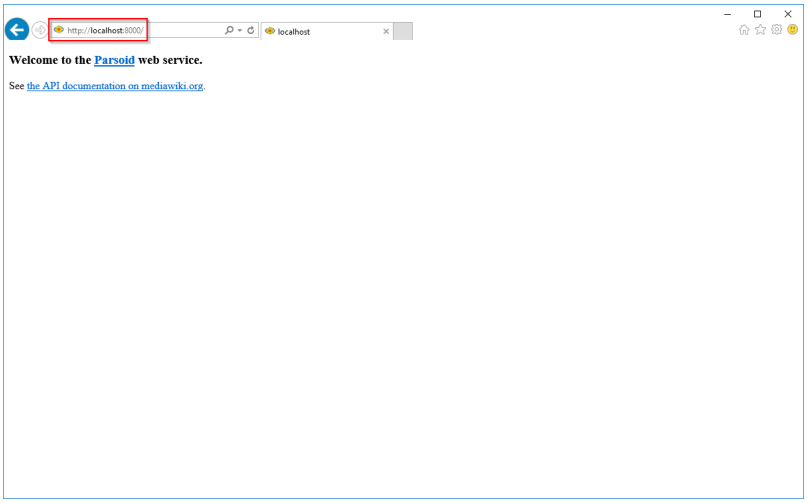
Parsoid installation and configuration check

To test the installation and configuration, go back to the command prompt.

Change into the directory C:\bluespice\bin\npm\node_modules\parsoid (1) and start the service with the command "node bin\server.js" (2):



The service should now start without an error message. For further review, call the URL " http://localhost: 8000" in Internet Explorer. You should see the following page:

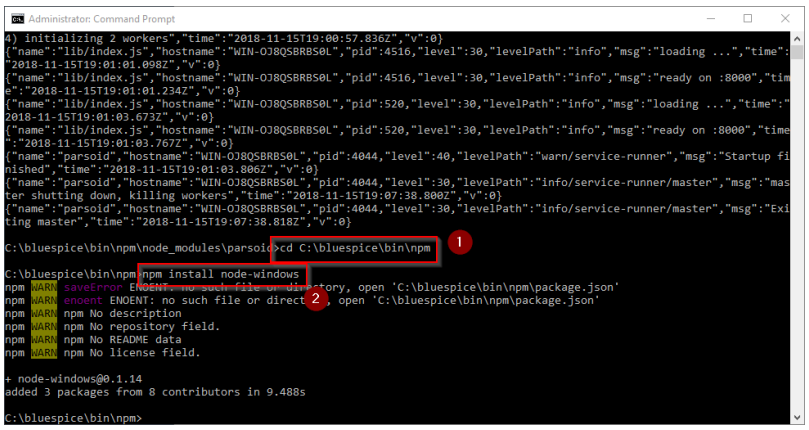


Change back to the command prompt and quit Parsoid by pressing "Ctrl+C". Keep the command prompt open and go to the next step.

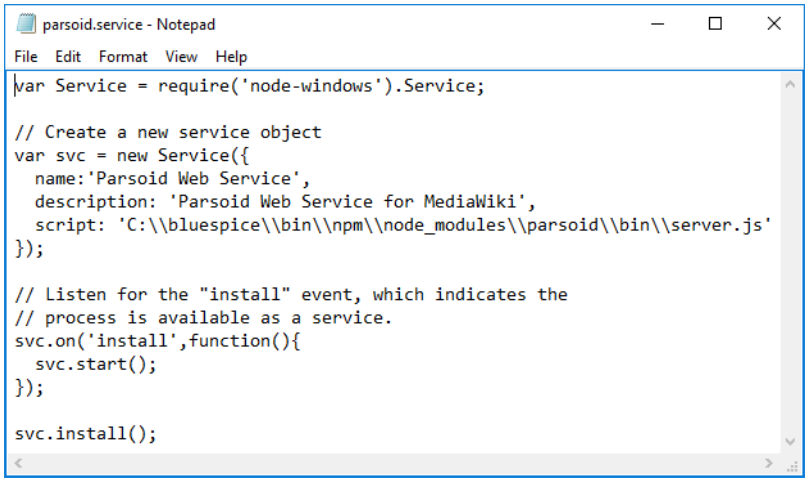
Installation as a service

To run Parsoid in the background in the future, you need to install Parsoid in a Windows service. To do this, proceed as follows:

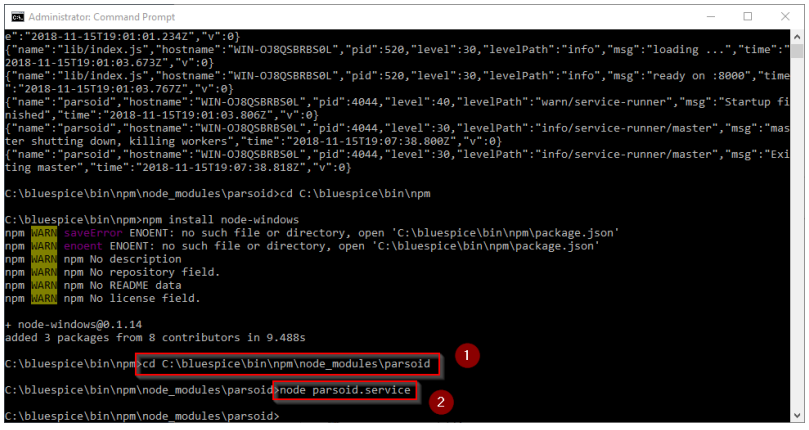
In the command prompt, change to the directory "C:\bluespice\bin\npm" (1) and execute the command "npm install node-windows" (2):



Using a text editor, create the file "C:\bluespice\bin\npm\node_modules\parsoid\ parsoid.service" with the help of this linked content:



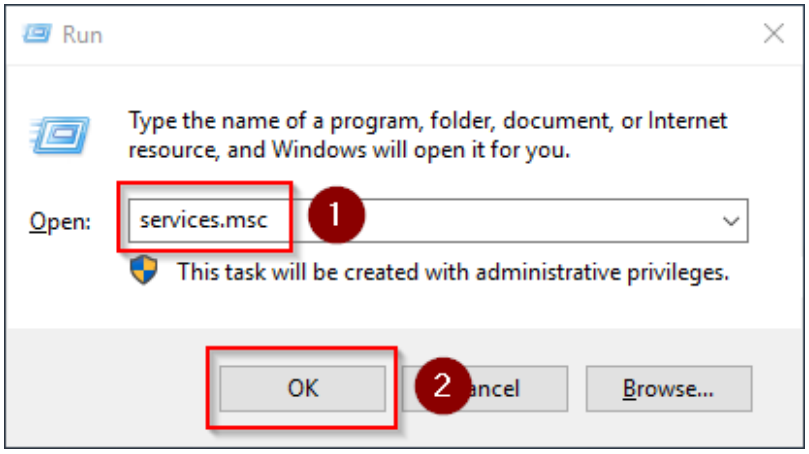
In the command prompt, change into the directory "C:\bluespice\bin\npm\node_modules\ parsoid" (1) and execute the command "node parsoid.service" (2):



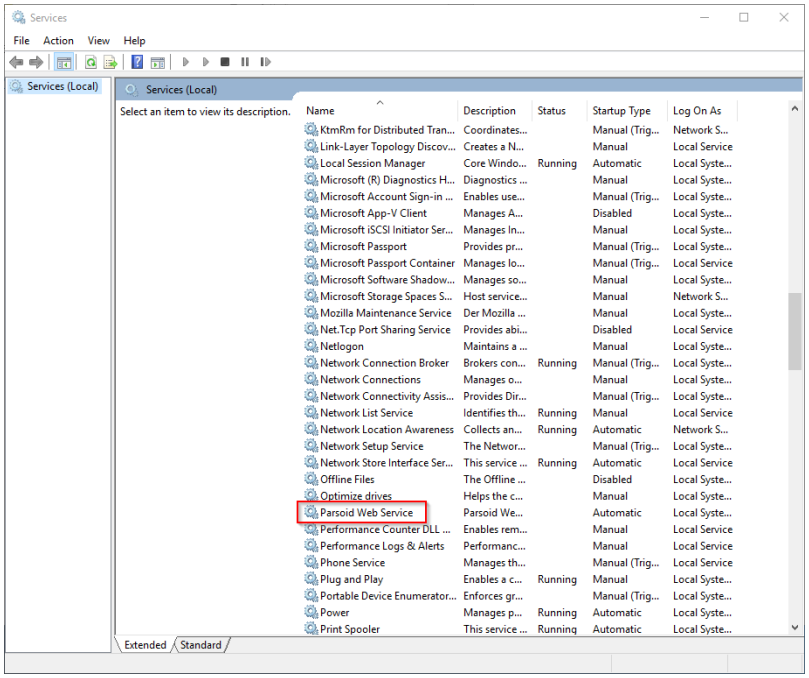
You can now close the command prompt.

Then enter the key combination Windows+R.

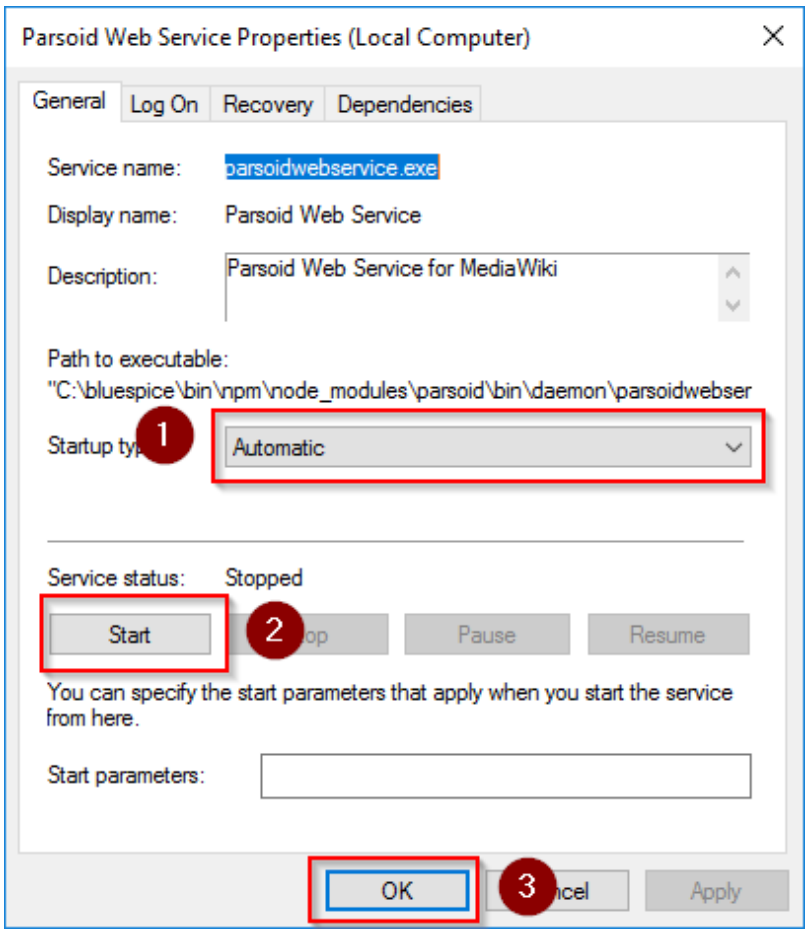
In the following dialog box, enter "services.msc" (1) and confirm with "OK" (2):



Find the service "Parsoid Web Service" and open it with a double-click:



Select the startup type "Automatic" (1) and start the service (2). After the service is started, close the window with "OK" (3):



In Internet Explorer, check the URL "http://localhost:8000", as already explained in the previous step, whether the Parsoid service started successfully.

Next step

If you have completed all steps successfully, you can proceed to the next step " Python".

VisualEditor configuration

A quality version of this page, approved on *21 October 2020*, was based off this revision.

Parsoid is the rendering service for VisualEditor. Make sure to install and configure Parsoid before configuring VisualEditor. See the instructions for Windows and Linux.

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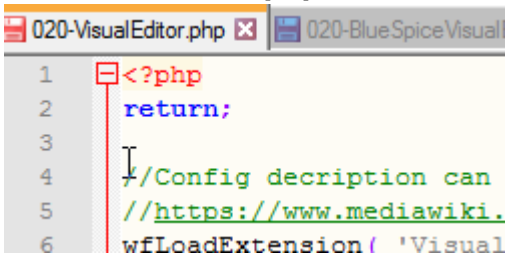
Server settings

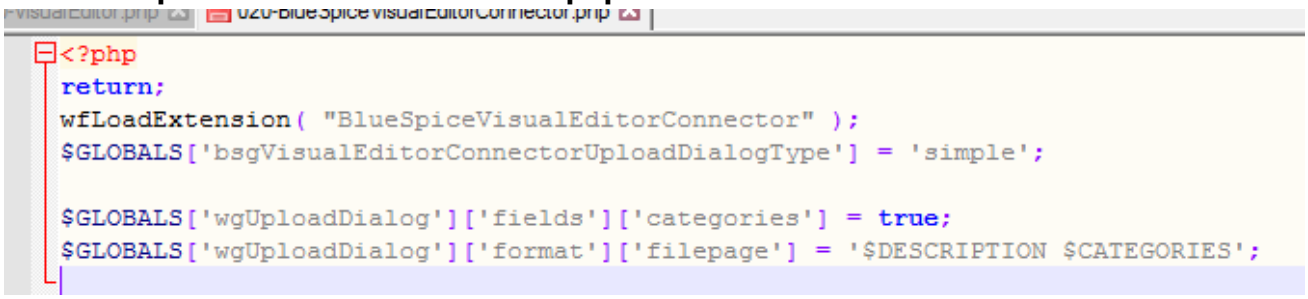
Before you can use VisualEditor in BlueSpice, you have to activate it in your installation:

In the BlueSpice installation directory, locate the following files inside the folder „var\www\settings.d“:

020-VisualEditor.php:



020-BlueSpiceVisualEditorConnector.php:

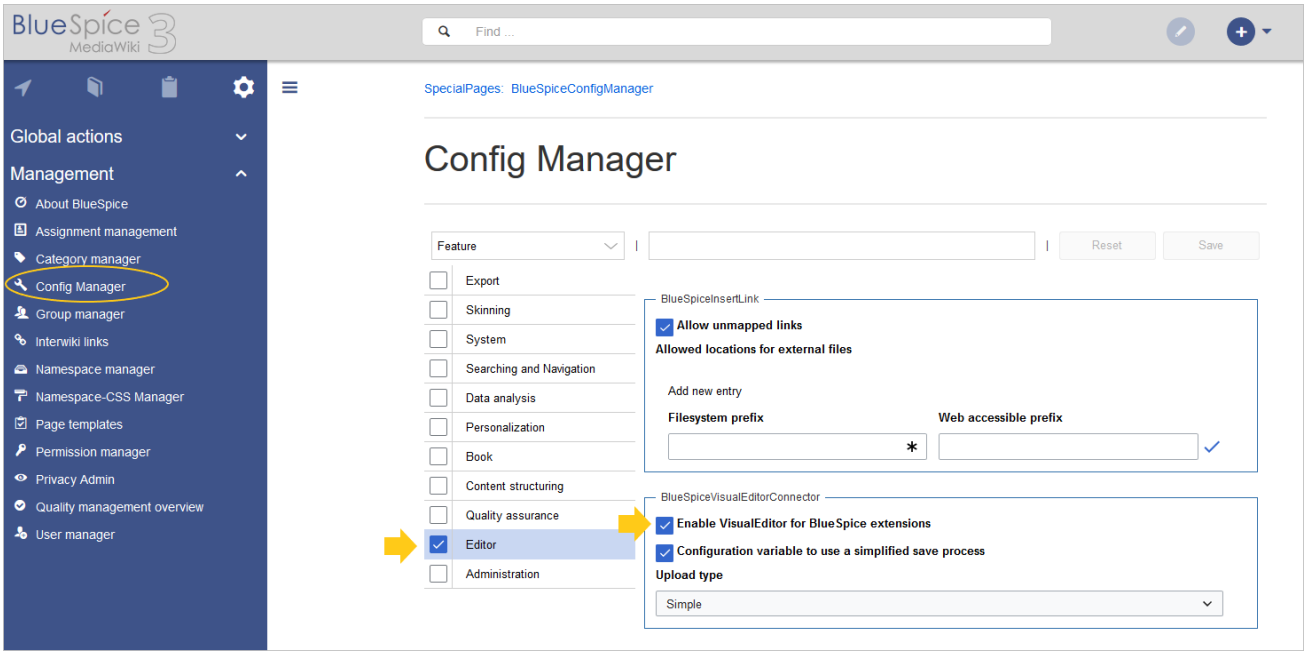


1. Remove the line containing the „return;“ command in both files and save them.
2. Restart your web server (recommended).

Checking the Configuration manager

In case the VisualEditor is still not appearing, check if VisualEditor is shown as activated in the configuration manager of your wiki:

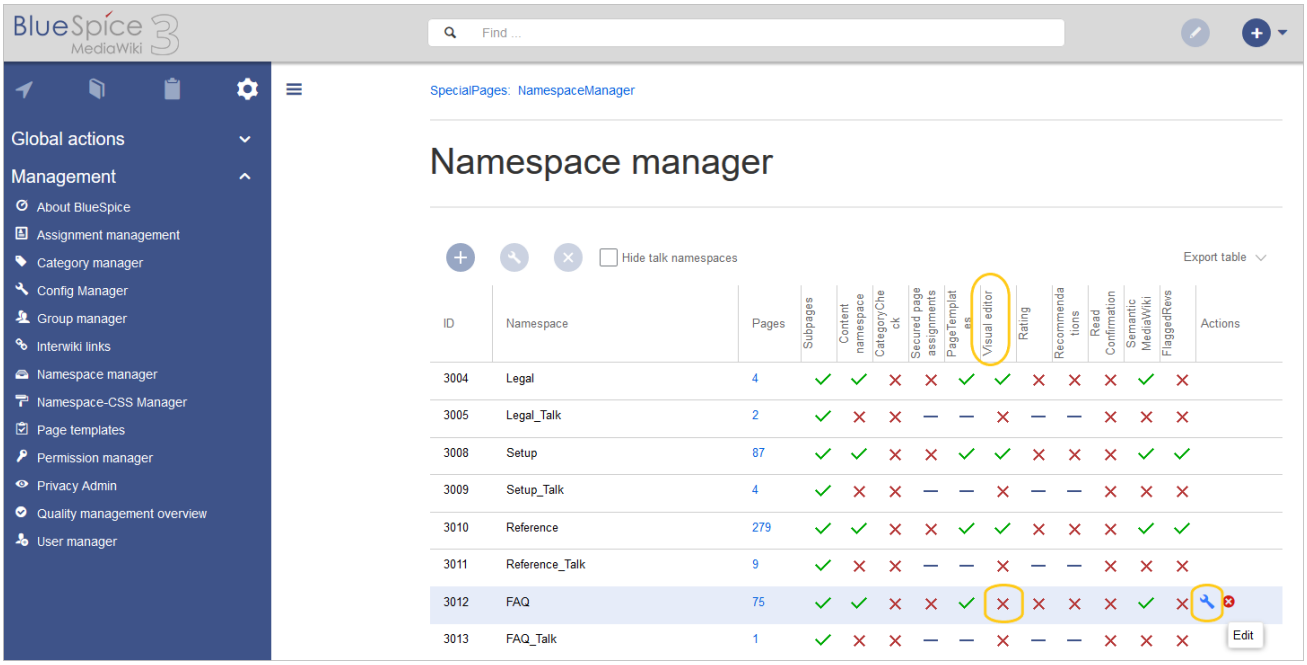
1. Go to *Global actions > Config manager*
2. Make sure the checkbox "Enable VisualEditor for BlueSpice extensions" is activated:



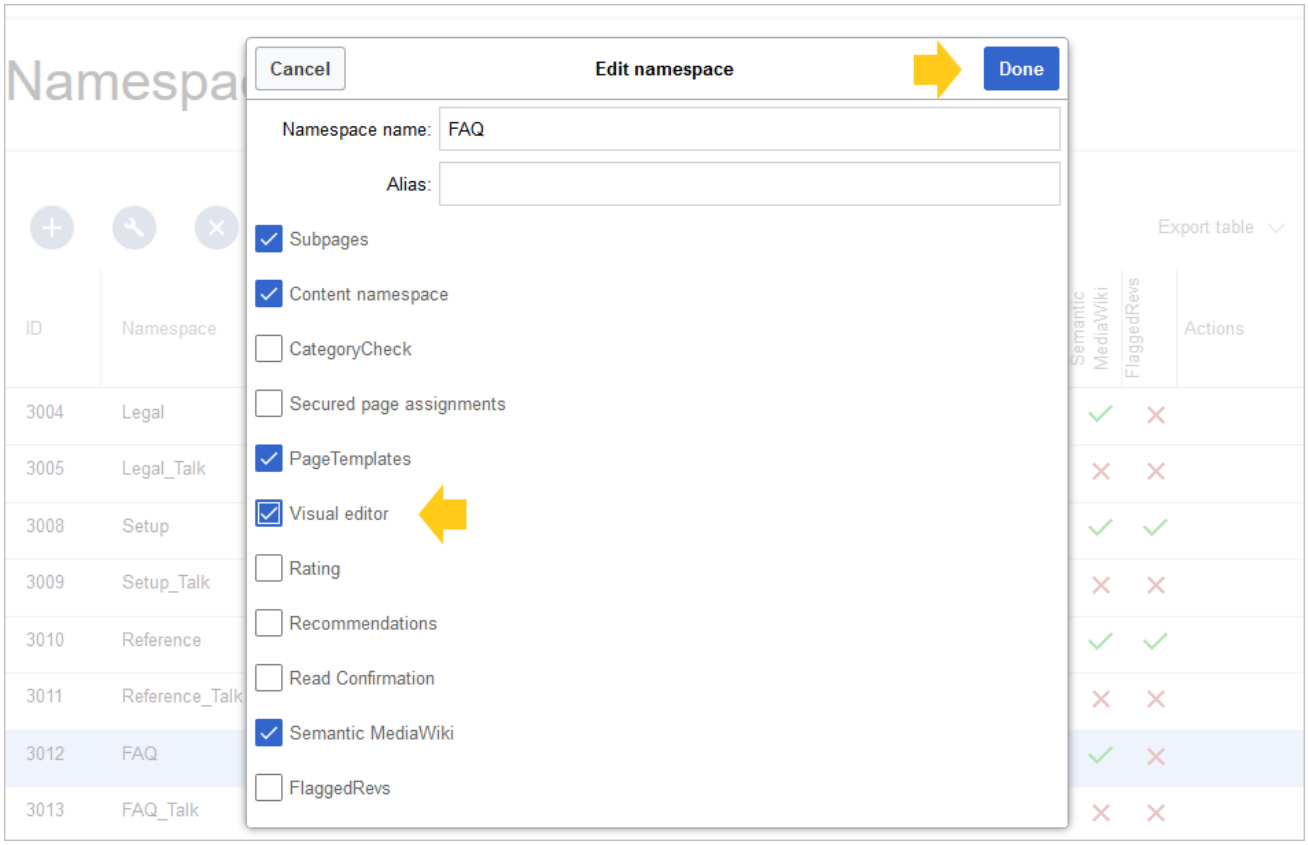
By default, VisualEditor is only activated in the main (Pages) and the User namespaces.

Activating VisualEditor for a namespace

1. Go to Global actions > Namespace manager In the column "VisualEditor", you can see which namespaces have VisualEditor activated. They have a green check mark.
2. Click the wrench icon in the "Actions" column. The wrench appears, when you hover over the row of the namespace:



1. Activate the checkbox for VisualEditor in the dialog window and click "Done":

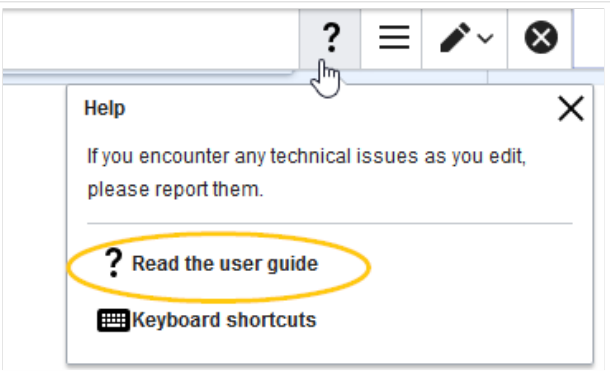


1. Refresh the Namespace manager page (F5) to confirm the change.

VisualEditor should now be working correctly in all namespaces that actively use it.

Customizing the link to the help pages

By default, the help link for VisualEditor links to the help page for VisualEditor on the BlueSpice helpdesk.



VisualEditor help link

The link can be changed to go to a custom URL:

To configure the url, add:

```
`$GLOBALS['bsgVisualEditorConnectorHelpUrl'] = 'https://your_url';`
```

to 'LocalSettings.php' or the appropriate config file.

Git on Windows

A quality version of this page, approved on *2 August 2021*, was based off this revision.

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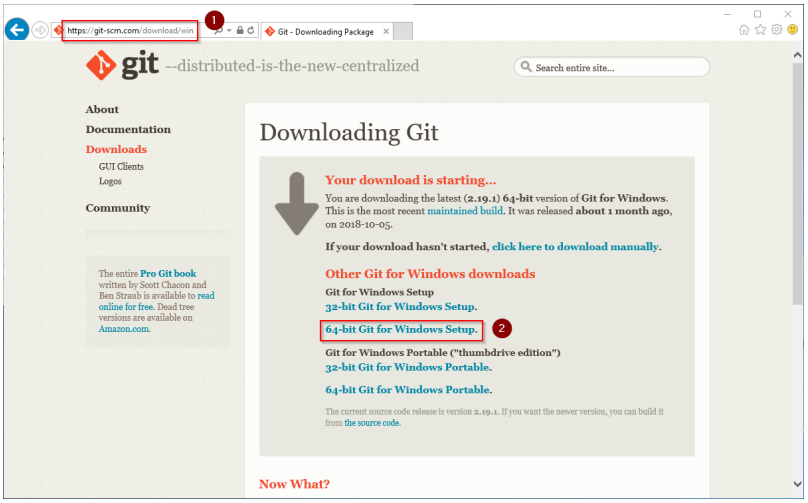
Git is an application for software version management. It is required for the installation of Node.js, which in turn is required for the operation of the rendering service "Parsoid" for the Visual Editor. The steps listed here are optional and only required if you want to use them in your BlueSpice installation.

Download

In the Internet Explorer, open the official download page on git-scm.com (1). If the optimal download for your operating system does not start automatically, click on "64-bit Git for Windows Setup" (2):



Follow the further download instructions and download the installation package to your hard disk.

Please note that the download on your Windows Server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.

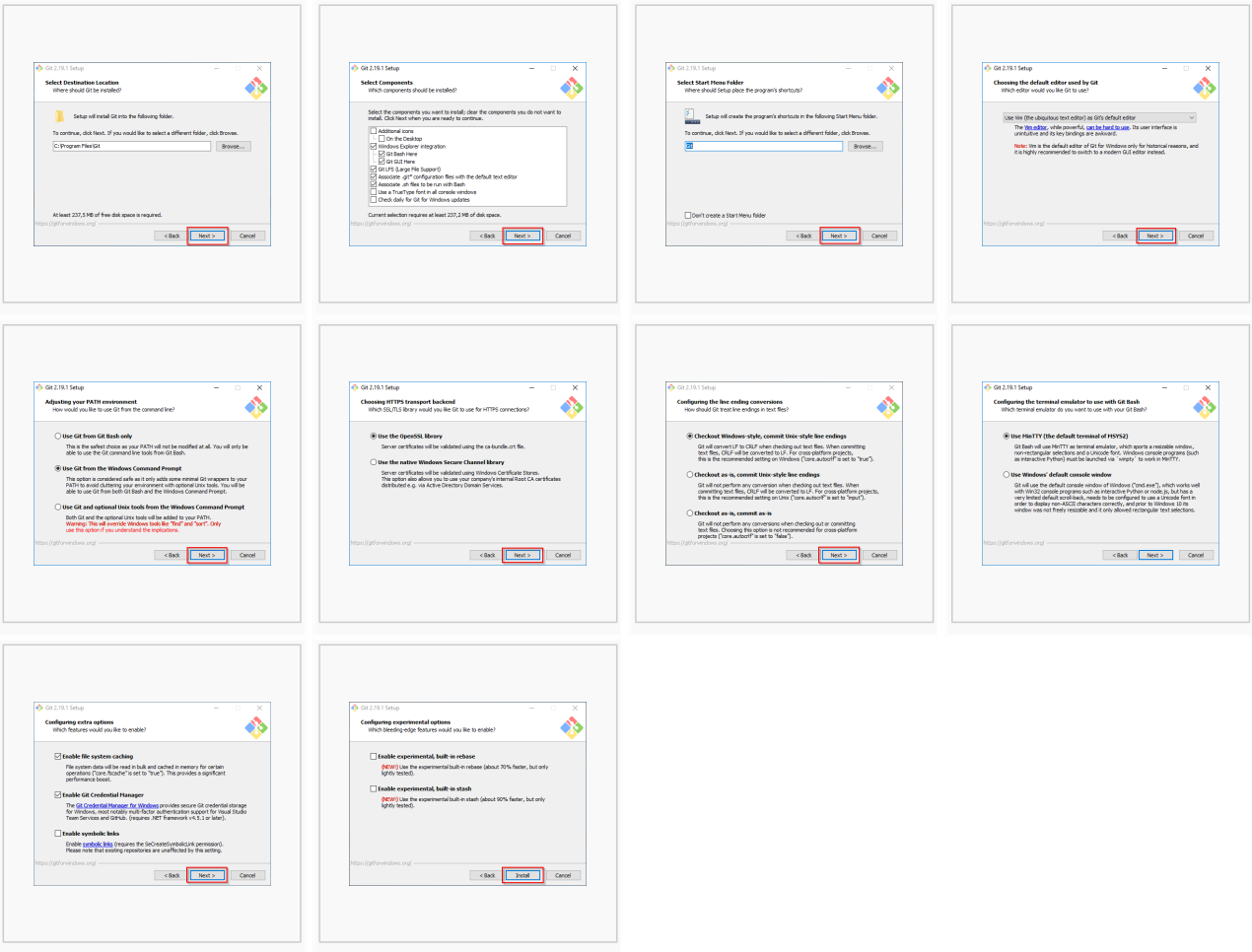
Git version 2.19.1 will be used below as an example. You can download the latest version of Git at the time of installation.

Installing Git

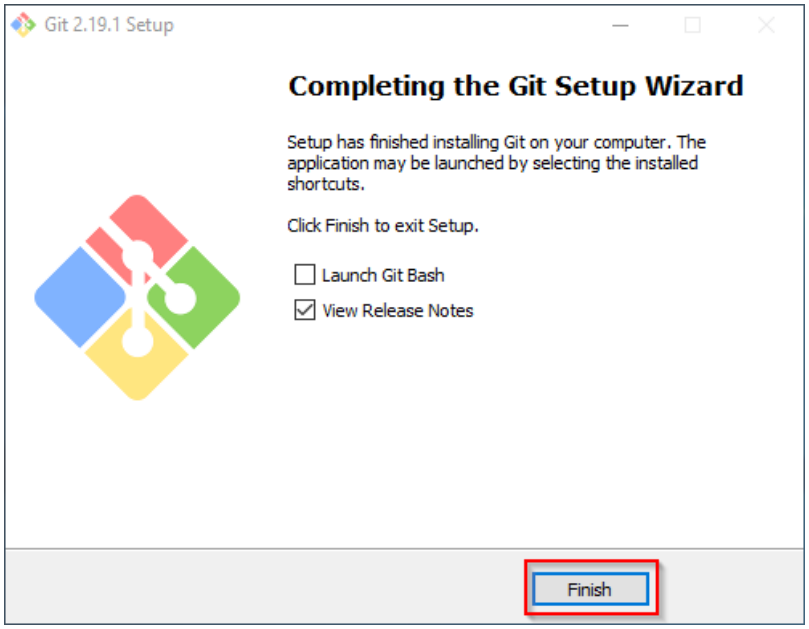
Open the downloaded Git-2.19.1-64-bit.exe file.

Start the installation by clicking "Next >":

Click, as pictured here, through the further installation steps:



You can close the setup program now:



Next step

If you have completed all steps successfully, you can delete the previously downloaded file "Git-2.19.1-64-bit.exe" from your hard disk and go to the next step" Node. js".

Node.js on Windows

A quality version of this page, approved on *9 June 2021*, was based off this revision.

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3 Adjusting the Installation path of the Node.js packages 20
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5 Next step 23

Node.js is required for the operation of the rendering service "Parsoid" for the Visual Editor. The steps listed here are optional and only required if you plan to use them in your BlueSpice installation.

Download

This guide uses the Node.js version 10.13.0 as an example. You can download any 10.x version of Node.js.

BlueSpice is NOT compatible with a Node.js version greater than 10.x!

In Internet Explorer, open the official website of Node.js (1). Download the latest LTS version 10.x.

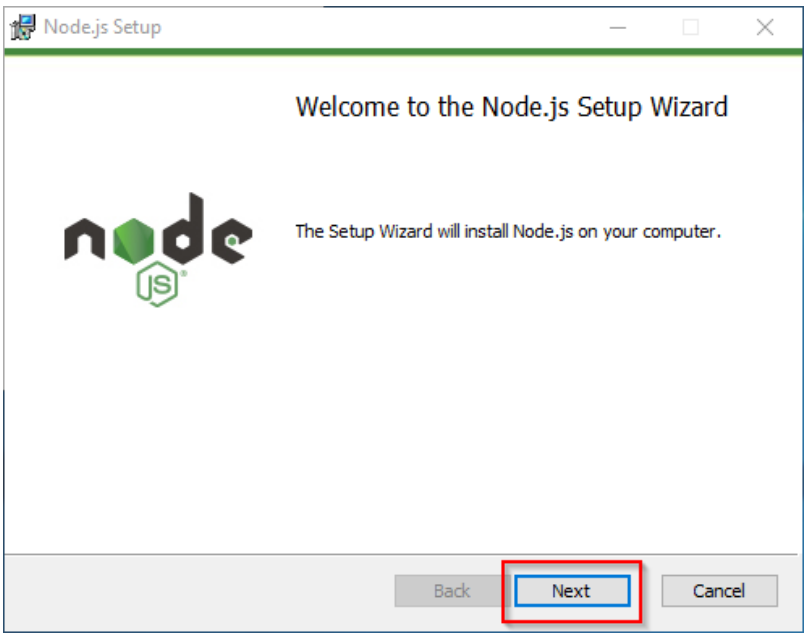
Follow the further download instructions and download the installation package to your hard drive.

Please note that the download on your Windows Server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.

Installing Node.js

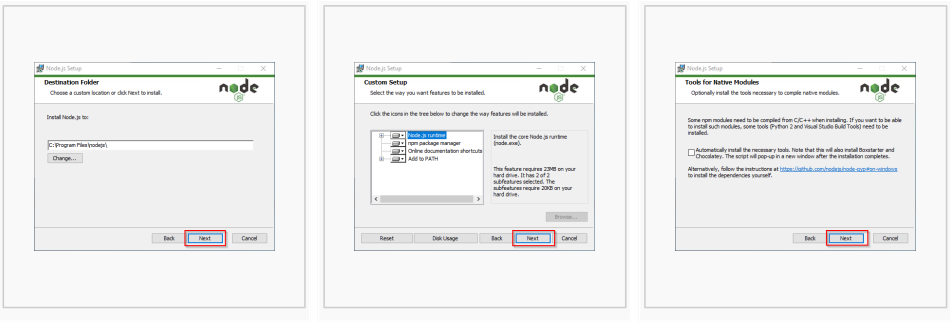
Open the downloaded file "node-v10.13.0-x64.msi".

Start the installation by clicking "Next>":

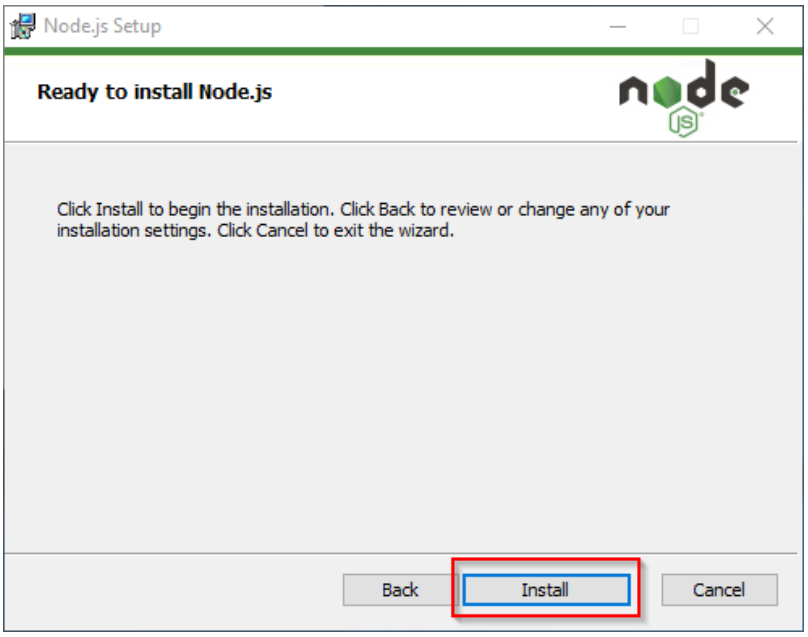


Confirm the license (1) and click "Next >" (2):

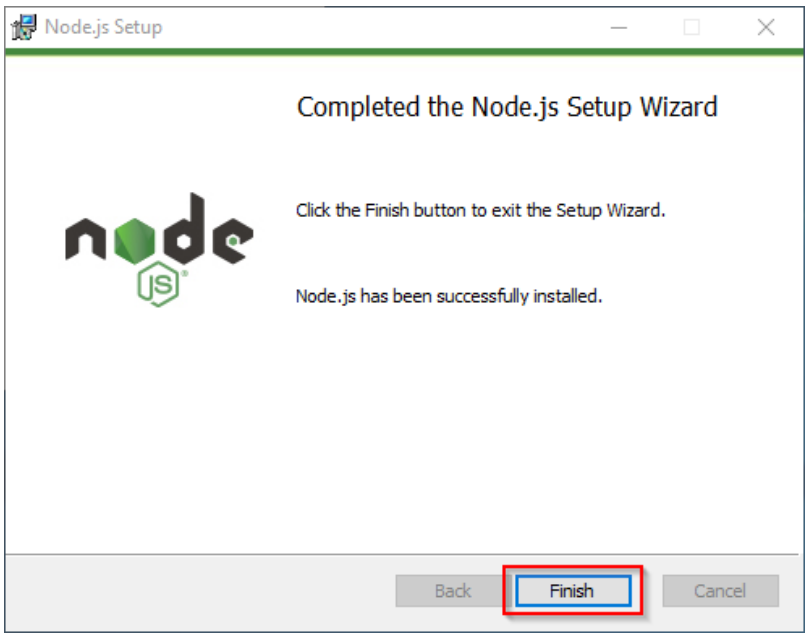
Confirm the further installation steps by clicking "Next >":



Start the installation by clicking "Install":



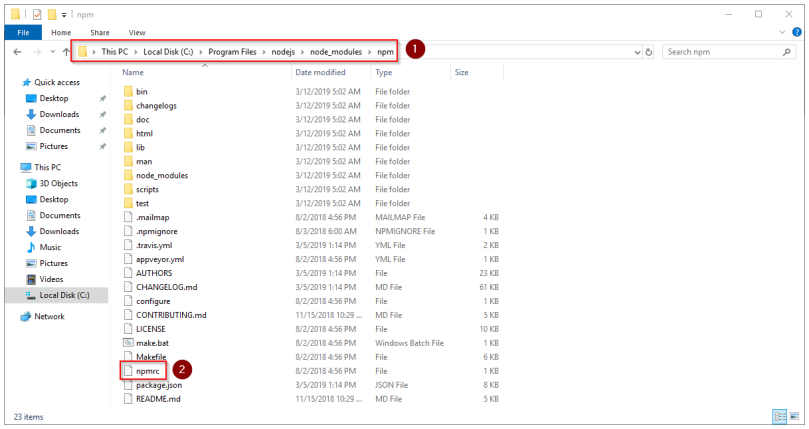
You can close the setup program after finishing the installation:



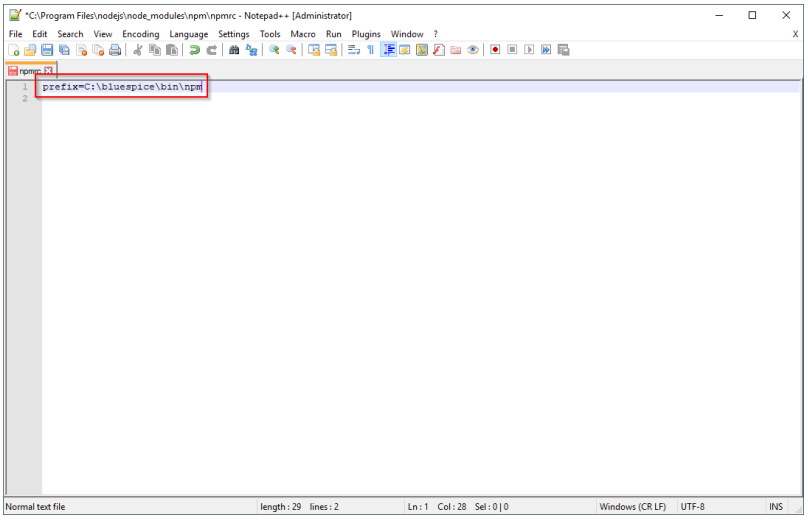
Adjusting the Installation path of the Node.js packages

By default, Node.js installs its packages in the profile directory of the logged-in user. Since Node.js is intended solely to operate as a user-independent server application under BlueSpice, it is strongly recommended that you change the default path for these packages:

In the Node.js installation folder, open the file node_modules\npm\npmrcin a text editor:



Edit this file and enter the new default path for your Node.js packages:



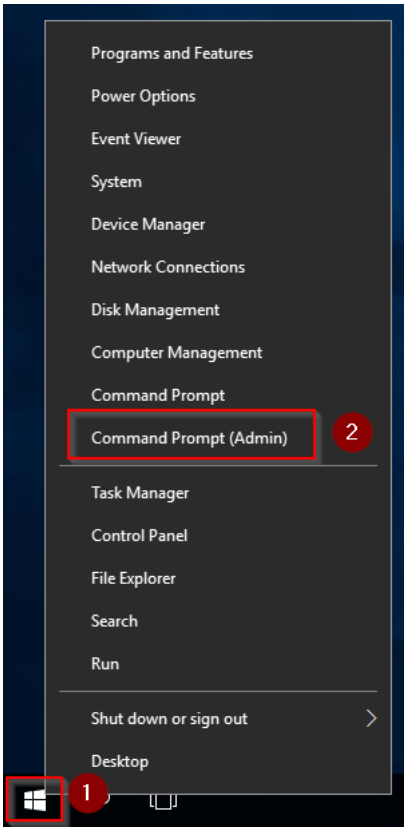
Save the file and close the editor.

This documentation is based on the folder structure recommended by us. For this reason, the default path for the Node.js packages is set to the folder C:\bluespice\bin\npm. If you have different requirements, you must adapt these paths accordingly.

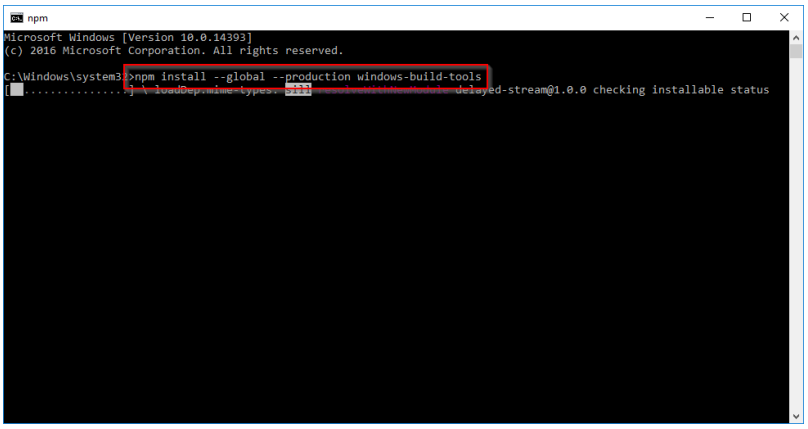
Installing the Windows Build Tools

The Node.js package windows-build-tools is required for installing the relevant BlueSpice applications.

To install, first open the Windows command prompt as administrator. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):

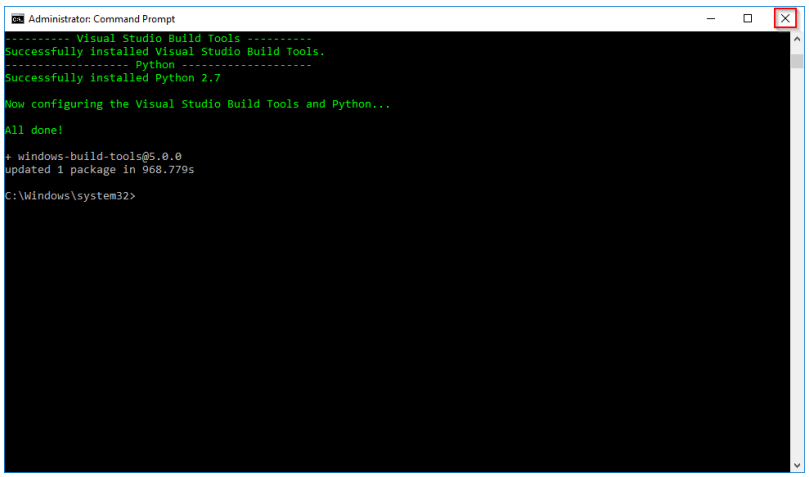


Execute the command "npm install --global --production windows-build-tools":



This command may take a long time and not show any activity for a long time. However, it is still active and must not be canceled! Additionally, Windows Server may restart during the process without warning. In this case, restart the installation as described above.

After successful installation, you can close the command prompt:



Next step

If you have completed all steps successfully, you can delete the previously downloaded file "node-v10.13.0-x64.msi" from your hard disk and continue to the next step " Parsoid".

Parsoid-Service Installation File "parsoid.service"

A quality version of this page, approved on *2 August 2021*, was based off this revision.

This is the content for the file "parsoid.service". You can find detailed information on the Parsoid documentation page:

```
var Service = require('node-windows').Service;

// Create a new service object
var svc = new Service({
  name:'Parsoid Web Service',
  description: 'Parsoid Web Service for MediaWiki',
  script: 'C:\\bluespice\\bin\\npm\\node_modules\\parsoid\\bin\\server.js'
});

// Listen for the "install" event, which indicates the
// process is available as a service.
svc.on('install',function(){
  svc.start();
});

svc.install();
```

Installing Python on Windows

A quality version of this page, approved on *25 October 2021*, was based off this revision.

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3 Installing Pygmentize 27
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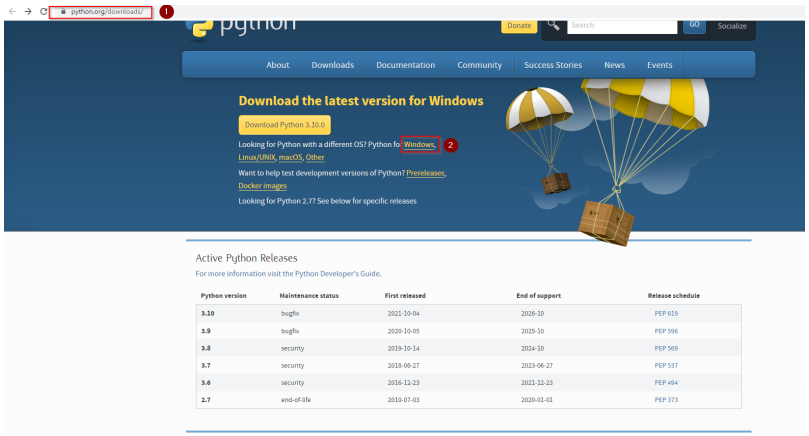
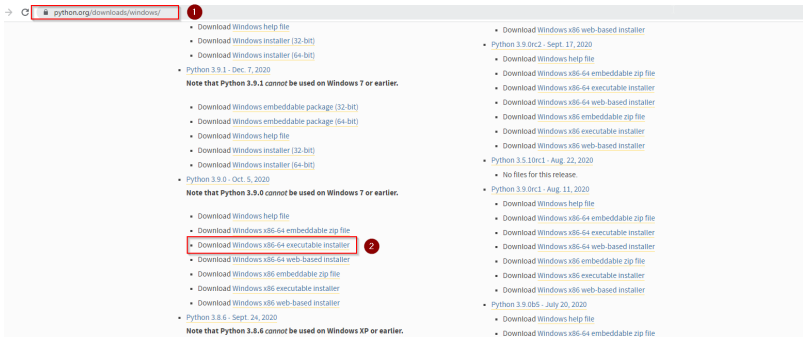
Python with the extension Pygmentize is needed for the rendering of the MediaWiki extension "SyntaxHighlight", which is part of BlueSpice. The steps listed here are required.

Downloading Python

In Internet Explorer, open the official download page (1). Switch to the download page for Windows (2).



Select the "executable installer" (64-bit):



Follow the further download instructions and download the installation package to your hard drive.

Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.

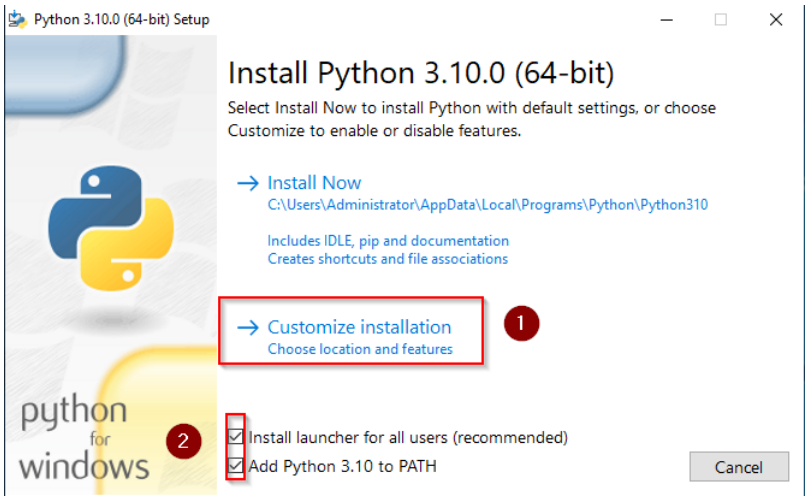
In this guide, Python is used in version 3.10.0 as an example. You can download the latest version at the time of installation.

Installing Python

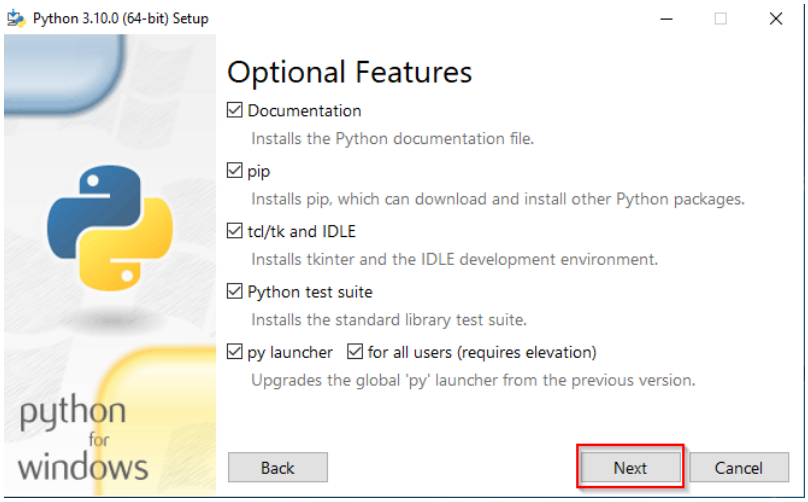
Open the just-downloaded python-3.10.0-amd64.exe file.

Start the installation by clicking "Next".

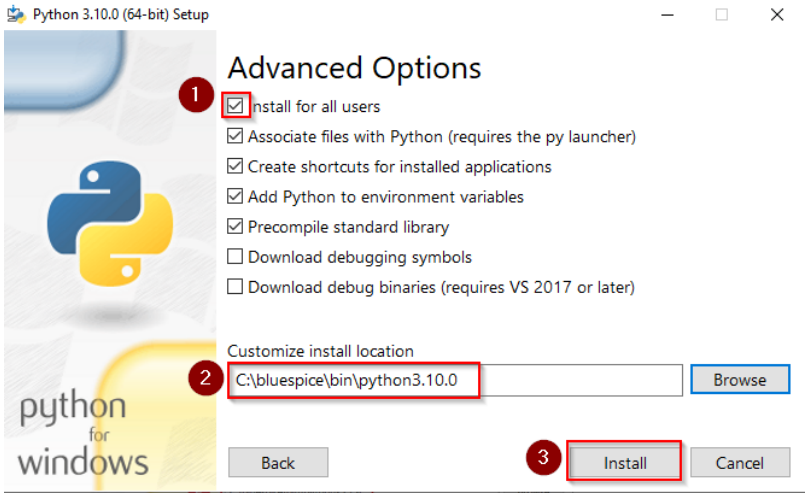
Confirm both checkboxes (1) and then click "Customize installation" (2):



Confirm the next step with "Next":

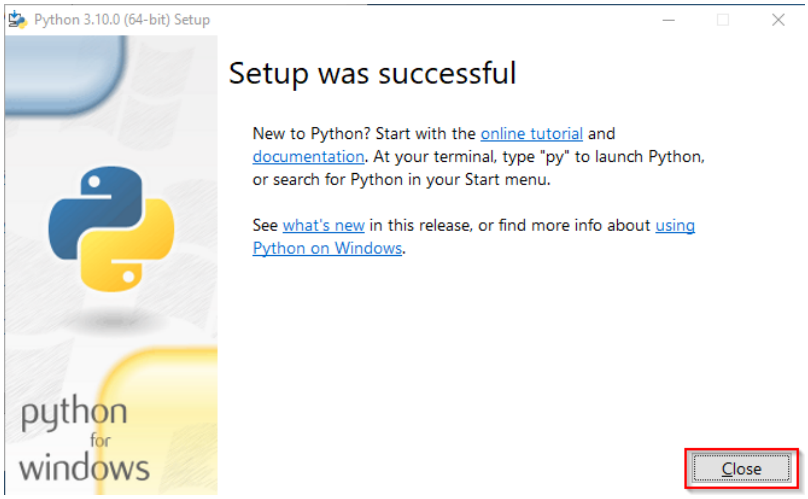


Make sure to install Python for all users (1) . Choose an appropriate path, if possible without spaces and special characters (2), and start the installation by clicking "Install" (3).



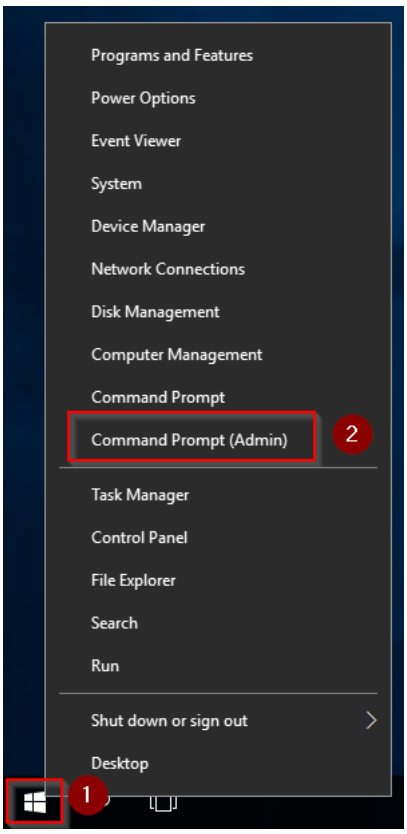
This documentation is based on the folder structure recommended by us. For this reason, the default path for Python installation is set to the folder C:\bluespice\bin\python-3.10.0. If you have different requirements, you must adapt these paths accordingly.

Finish the installation by clicking "Close":

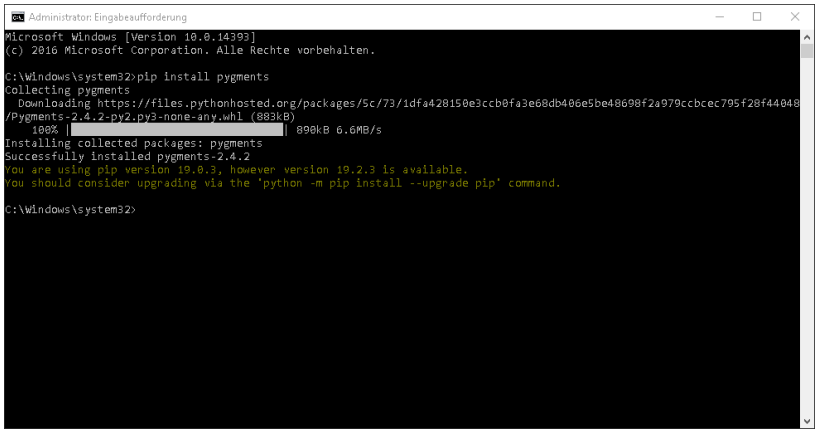


Installing Pygmentize

Open the command prompt with admin permissions. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):



Enter the command "*pip install pygments*" and wait for the process to finish:



Important! The `pygmentize` binary needs to be executable by the webserver user (see installation instructions for SyntaxHighlight).

Next step

If you have completed all steps successfully, you can delete the previously downloaded file "python-3.10.0-amd64.exe" from your hard drive. If you install BlueSpice pro, go to the next step "PhantomJS". If you install BlueSpice free, you can now continue with Installing BlueSpice.