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Setup:Installation Guide/System Preparation/Windows/Python

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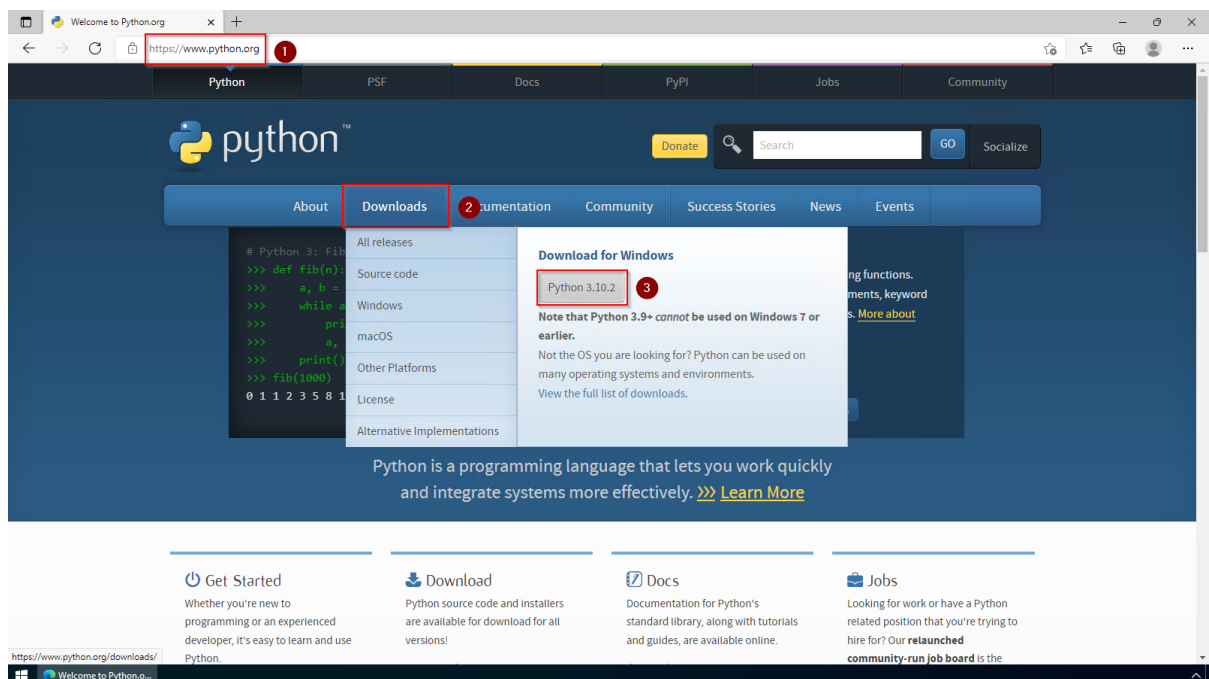
Python with the Pygmentize extension is required for rendering the MediaWiki extension **SyntaxHighlight**, which is part of BlueSpice. If you do not need the functionality, the installation of Python is not relevant for the installation and operation of BlueSpice.

Download



The content of this section refers to external sources and is current at the time of writing this documentation. We cannot guarantee how long these sources will remain unchanged. Please let us know if you notice any discrepancies to the information provided here.

Download Python directly at [python.org](https://www.python.org).



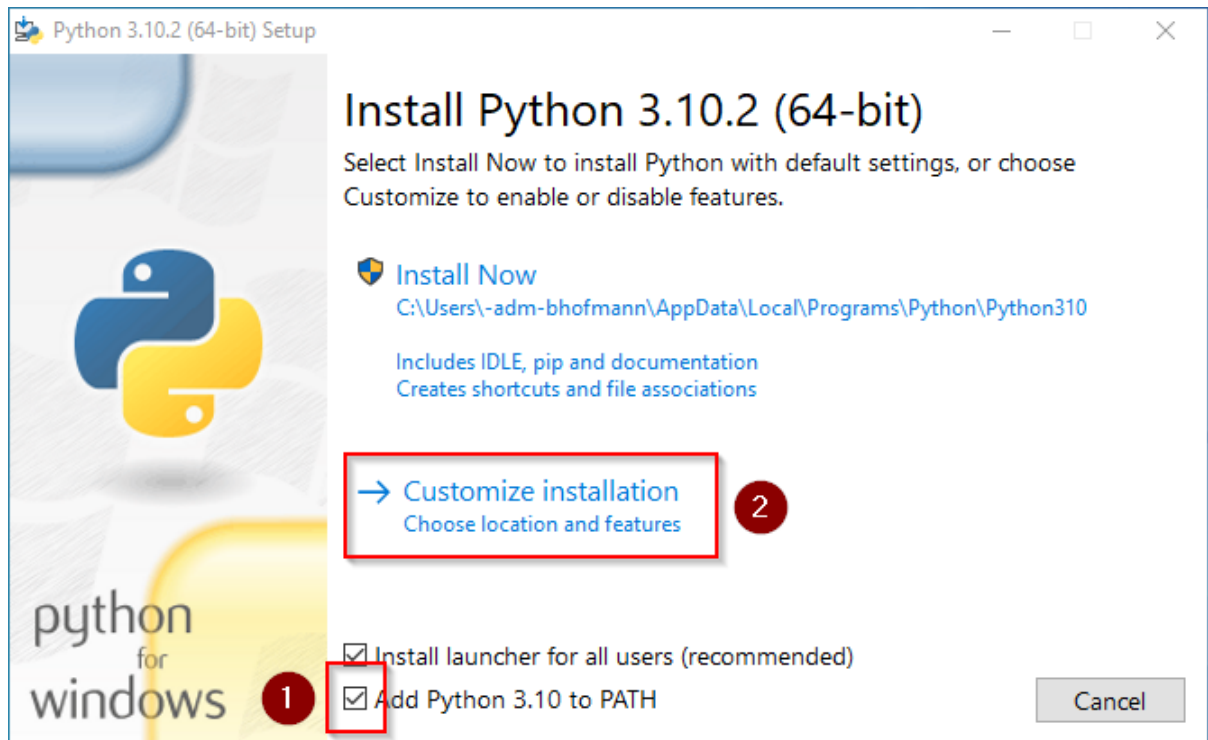
In the following, Python in version 3.10.2 is used and only serves as an example for the most current version that you can download at the time of your installation.

Installation

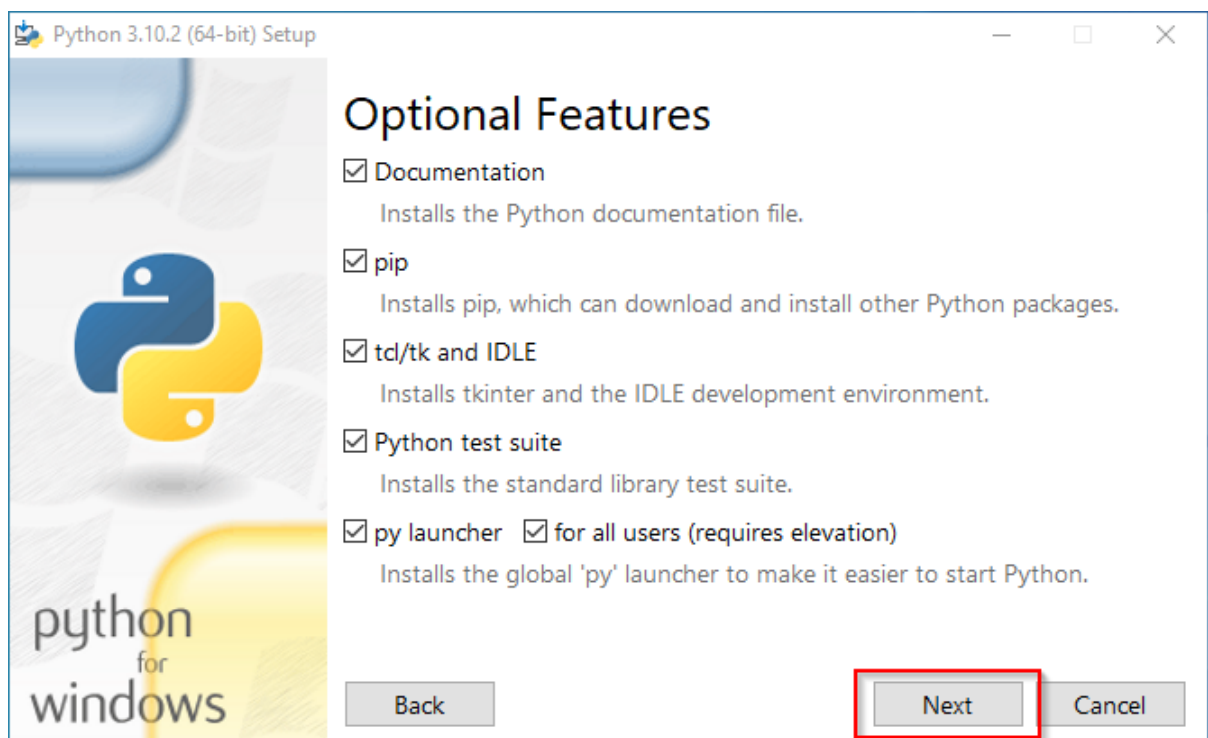
Open the file that you have just downloaded.

Select both checkboxes (1).

Click "Customize installation" (2):

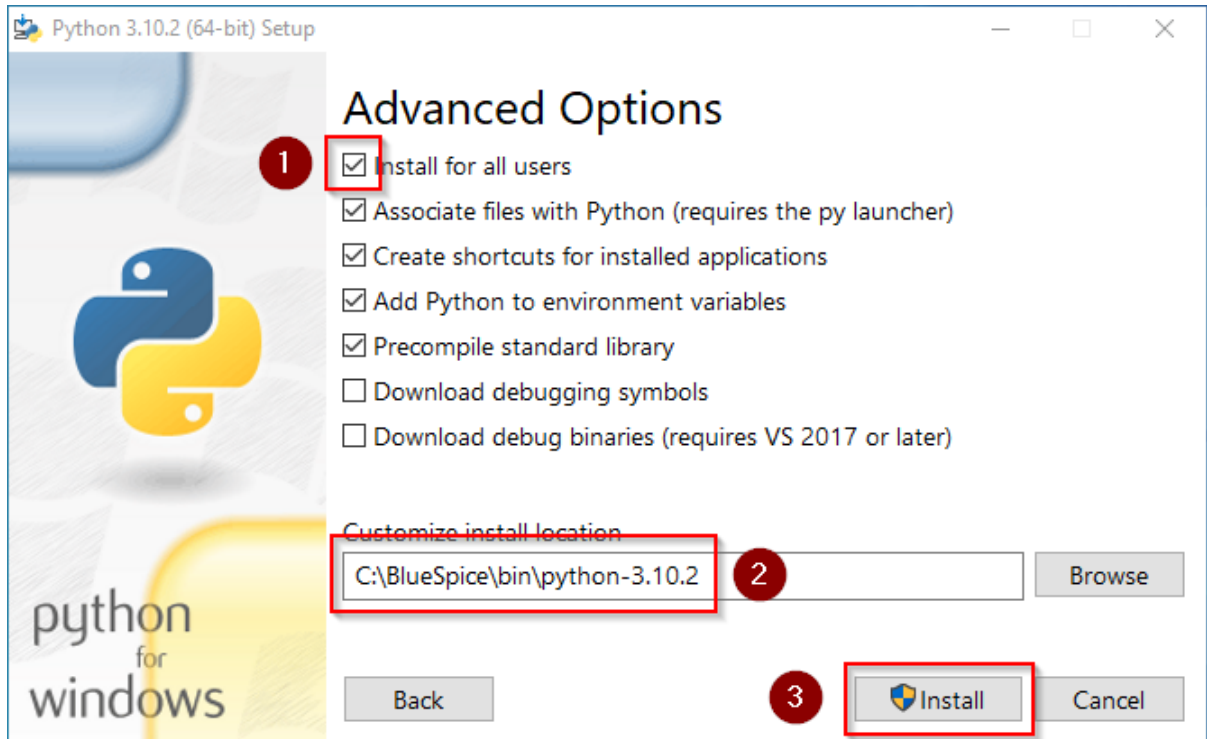


Click "Next" in the Optional Features window.



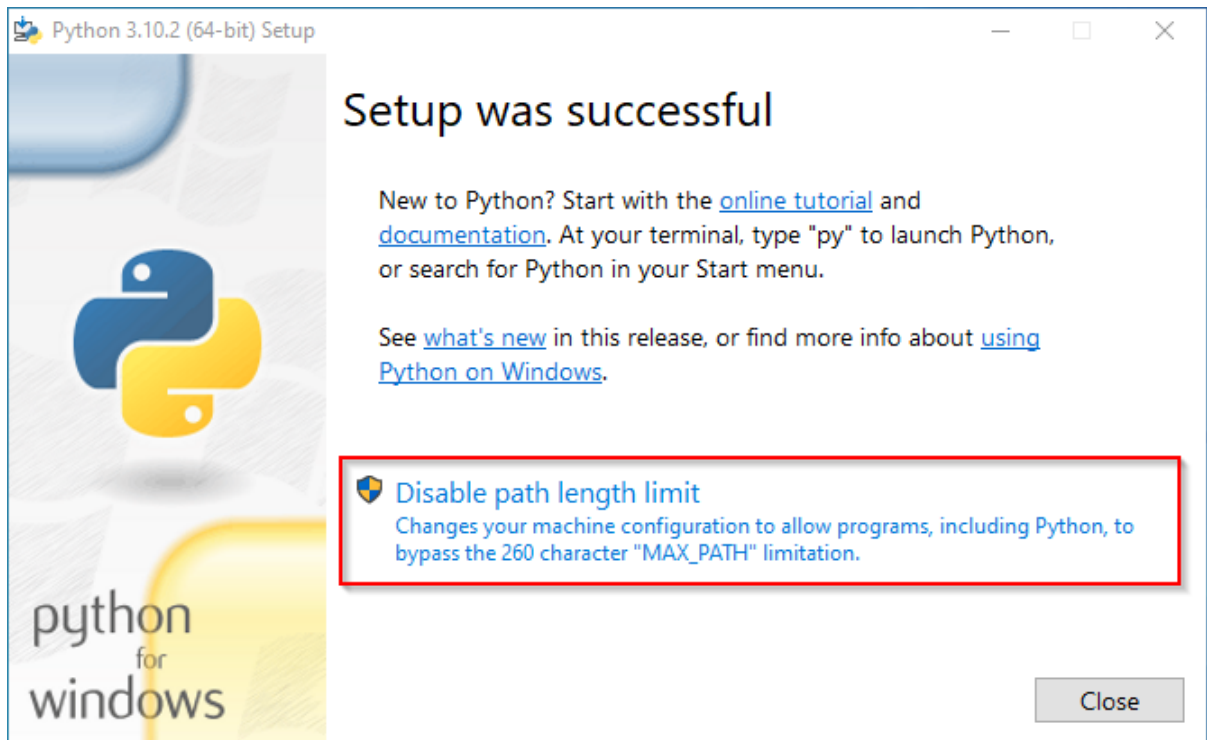
Make sure to install Python for all users (1) . Choose an appropriate path, if possible without spaces and special characters (2)

Click "Install" to start the installation (3).

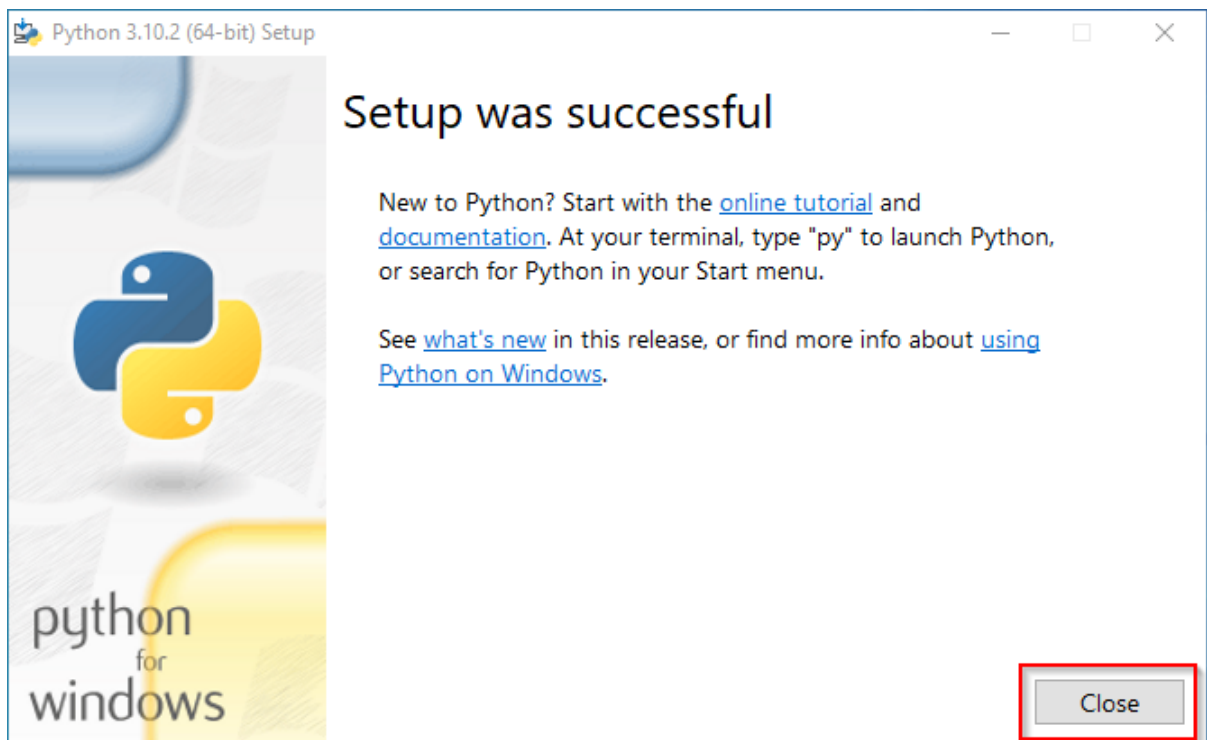


This documentation assumes the [folder structure recommended by us](#). For this reason, Python is unpacked at this point in the folder C:\bluespice\bin\python-3.10.2. If you have individual wishes, adjust these paths according to your own understanding.

Deactivate the limitation of the path length to 260 characters after the installation:

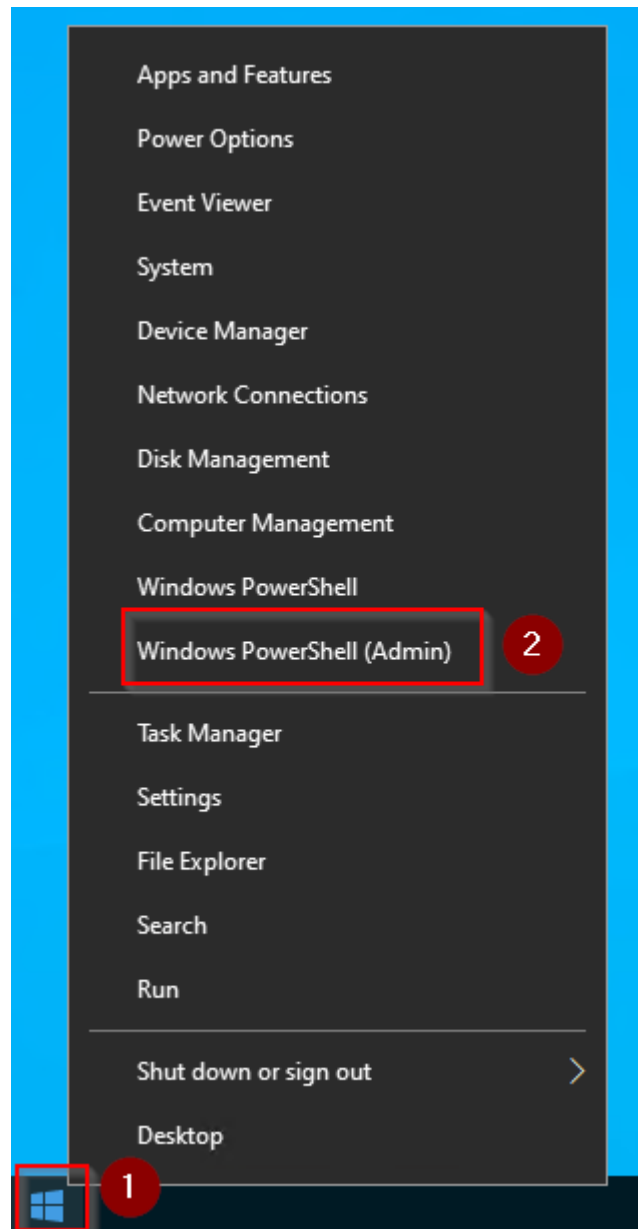


Click "Close" to finish the installation.

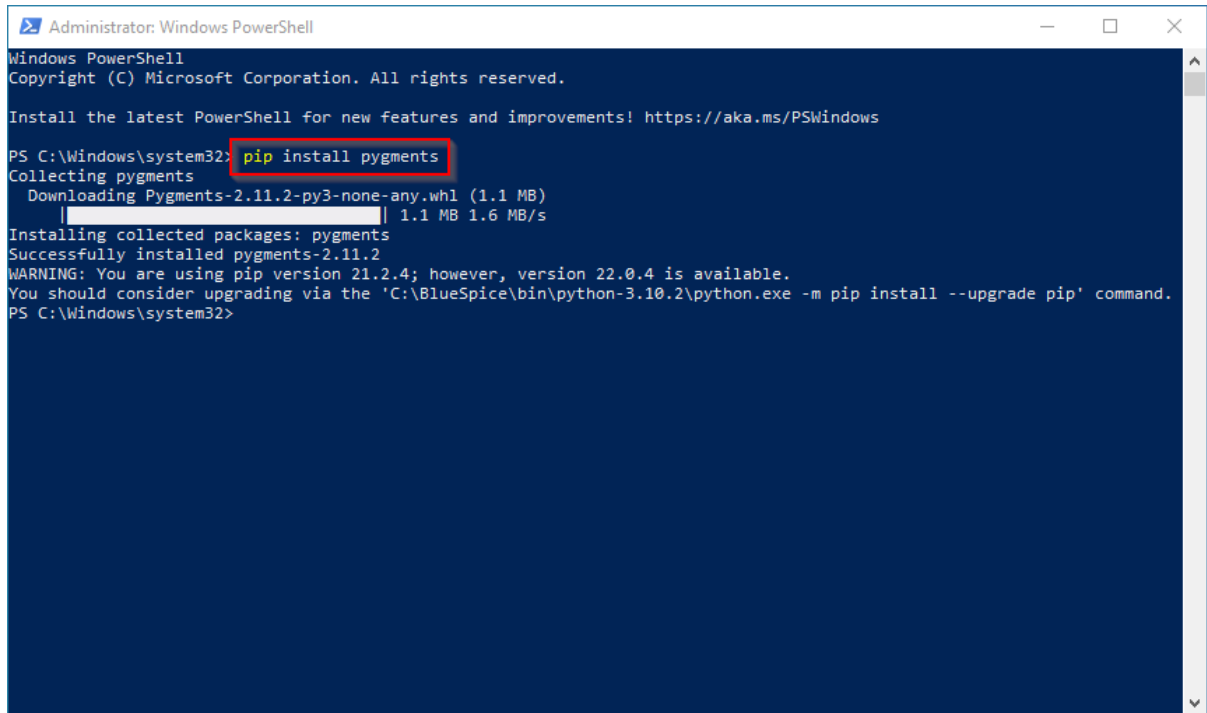


Installing Pygmentize

Open the PowerShell (the command prompt in older Windows versions). To do this, **right-click** "Start" (1) and select "Command Prompt (Administrator)" (2):



Geben Sie den Befehl "pip install pygments" ein und warten Sie, bis der folgende Prozess



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> pip install pygments
Collecting pygments
  Downloading Pygments-2.11.2-py3-none-any.whl (1.1 MB)
    |#####| 1.1 MB 1.6 MB/s
Installing collected packages: pygments
Successfully installed pygments-2.11.2
WARNING: You are using pip version 21.2.4; however, version 22.0.4 is available.
You should consider upgrading via the 'C:\BlueSpice\bin\python-3.10.2\python.exe -m pip install --upgrade pip' command.
PS C:\Windows\system32>
```

Completion

Your Windows server is now fully prepared for the actual installation of BlueSpice.

Windows Folder Structure

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Introduction

Microsoft Windows distributes program installations and configurations, the Webroot under IIS etc. to various folders in the file system. Since BlueSpice is a web application based on PHP, it is not always easy to use the Windows default system paths in the application.

For this reason, we recommend creating a separate folder structure for BlueSpice, all related data and additional program installations.

In the following we describe a proven folder structure that is also recommended by us.

Folder structure

In the following, "\\bluespice\\" is specified as the base directory for the installation in the root directory of the drive (e.g. C:\\bluespice or D:\\bluespice).

The folder structure based on Unix operating systems is:

```
bluespice/
├── backup/           # für Backups
├── bin/              # für Zusätzliche Programme sowie eigene Skripte
├── etc/              # für Konfigurationsdateien
├── opt/
│   ├── bluespice/
│   │   ├── cache/    # BlueSpice-eigener Cache
│   │   ├── images/   # Datei-Uploads
│   │   └── widgets/   # Gerenderte Widgets
├── tmp/              # Temporäre Dateien
└── var/
    ├── log/          # LOG-Dateien des Webserver
    └── www/           # Die eigentliche BlueSpice-Applikation
```

Folder names for program installations

When installing programs in \\bluespice\\bin, please always ensure that these programs are installed in subfolders that do not contain any special characters and/or spaces.