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## Setup:Installation Guide/Advanced/Mathoid

Mathoid is a nodjs service which takes various forms of math input and converts it to MathML + SVG or PNG output.

**Important!** Beginning with BlueSpice 4.x, Mathoid is no longer distributed and has to be installed separately.

Download:

[https://buildservice.bluespice.com/webservices/REL1\\_39-4.3.x/mathoid.tar.gz](https://buildservice.bluespice.com/webservices/REL1_39-4.3.x/mathoid.tar.gz) or [https://buildservice.bluespice.com/webservices/REL1\\_39-4.3.x/mathoid.zip](https://buildservice.bluespice.com/webservices/REL1_39-4.3.x/mathoid.zip)

If mathematical formulas are not rendered in your wiki, please check that `extensions/Math` /`webservices/mathoid.tar.gz` is deployed in the correct folder:

- Linux: `/opt/mathoid`
- Windows: `C:\BlueSpice\bin\mathoid`

### PDF-Export integration

The PDF-Export does not support SVGs at the moment. Therefore the SVG needs to be converted into a PNG when embedded into a PDF. This is done automatically, but requires `$wgSVGConverter` to be set up properly. It is recommended to use `rsvg` as a converter. On Debian based linux environments it can be installed with



```
apt install librsvg2-bin
```

In the `LocalSettings.php` file it must be configured with

```
$GLOBALS['wgSVGConverter'] = 'rsvg';
```

## Next step

If you have completed all steps successfully and want to install BlueSpice pro, proceed to the next step [PhantomJS](#)

# Installing PhantomJS

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**Note:** PhantomJS is a so-called headless browser that can render screenshots of web pages. This is required for the web page preview in Advanced Search and the Recent Changes Overview in your BlueSpice installation. These are functionalities of BlueSpice pro. For this purpose, the steps listed here are required.

**Important!** In this documentation, we use PhantomJS version 2.1.1. This is just an example of the latest version that you can download at the time of installation.

## Download

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Go to the [download page of PhantomJS](#) and download the 64-bit version for Linux. Transfer the file to your server.

## Installation

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Unpack the downloaded bz2 archive on the server with the command `tar xjf phantomjs-2.1.1-linux-x86_64.tar.bz2`. In the unpacked folder `phantomjs-2.1.1-linux-x86_64`, you will find another folder with the name `bin`. Within this folder is the file `phantomjs`. Copy this file into the `/usr/local/bin` folder. Then adjust the rights of the file:

```
chown root:staff /usr/local/bin/phantomjs; \  
chmod +x /usr/local/bin/phantomjs
```

## Completing the system preparation

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If you have completed all steps successfully, you can now continue with [installing BlueSpice](#).