

PlantUML

RAT Integration

Java

- <https://www.java.com/en/download/>

GraphViz

GraphViz is an open-source graph visualization software. It provides a program called dot. This dot program is able to generate a directed graph from a textual description.

You will need to add the path to the Graphviz bin directory to the PATH variable.



Optionally, create an environment variable called GRAPHVIZ_DOT that points to the DOT executable.



The latest release of GraphViz tested to be compatible with RAT (v3.13.x, Feb. 2021) is **2.46.1 EXE installer for Windows 10 (64-bit)**

Fallback: [graphviz-2.38.msi](#) (download provided via HSE's server)



For setting environment variables like PATH, see the our ****Shell dokuwiki page****.

PlantUML Server via Docker (the easy way!)

1. [Install Docker](#) (Linux) or Docker-Desktop (Windows). If not included, [install Docker Compose](#).
2. Clone the "HSE PlantUML Server" docker compose script with `git clone git@gitlab.com:hampel-soft/hse-labs/hse-plantuml-server.git`.
3. Open a terminal in the project folder.
4. Execute `docker-compose up -d` (für Compose v2: `docker compose up -d`)
5. Open a browser and type in <http://localhost:8123>. The PlantUML site with an input field

and some example code should be displayed.

Synology NAS Docker

1. in docker webinterface register & download plantuml/plantuml-server
2. under image start image
3. configure a local port
4. create firewall rule for that port in synology DS
5. [create port forwarding rule for that port in router]

VS Code integration

1. Install the extension "PlantUML".
2. Go to the extension settings and make the following changes:
 - **Renderer:** "PlantUMLServer"
 - **Server:** "<http://localhost:8123>" (or another server URL).
3. Open a new file and add a PlantUML script. Open the preview windows by pressing **Alt + D**.

Notepad++ integration

1. install java
2. [Download plantuml.jar](#)
3. [Download PlantUML_Notepad-UDL \(optional\)](#)
4. move UDL to folder for import
5. %AppData%\Notepad++\userDefineLangs
6. restart notepad++
7. create plantuml.bat
8. menu execute -> run external program insert cmd PathToYour\PlantUML\plantuml.bat
"\$(FULL_CURRENT_PATH)"

content of plantuml.bat

```
@echo off
java -jar Z:\plantUML\plantuml.jar -charset UTF-8 -o
"C:\Users\ae\Pictures" %1
```

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