

You can run PlantUML using the command line. (See running for ways to run PlantUML from various other The most basic way to run it is:

```
java -jar plantuml.jar file1 file2 file3
```

This will look for @startXYZ into file1, file2 and file3. For each diagram, a .png file will be creffer processing a whole directory, you can use:

```
java -jar plantuml.jar "c:/directory1" "c:/directory2"
```

This command will search for <code>@startXYZ</code> and <code>@endXYZ</code> into .txt , .tex , .java , .htm , .html , .c .hh or .md files of the <code>c:/directory1</code> and <code>c:/directory2</code> directories.

Docker images are released as Github Packages and to Docker Hub.

docker run ghcr.io/plantuml/plantuml



You can also use wildcards:

- For a single character, use ?
- $\bullet~$ For zero or more characters, use $~^\star$
- $\bullet~$ For zero or more characters, (including ~/~ or $~\backslash~$), use a double ~**

So to process any $% \left(1\right) =\left(1\right) =\left(1\right)$. cpp $% \left(1\right) =\left(1\right) =\left(1\right)$ files in all directories starting by dummy :

```
java -jar plantuml.jar "dummy*/*.cpp"
```

And to process any .cpp files in all directories starting by *dummy*, and theirs subdirectories :

```
java -jar plantuml.jar "dummy*/**.cpp"
```

△ ☑ Excluded files

You can exlude some files from the process using the -x option:

```
java -jar plantuml.jar -x "**/common/**" -x "**/test/Test*" "dummy*/**/*.cpp"
```

последовательност прецедентов классов активности активности ветя компонент состояний объ

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You can specify an output directory for all images using the -o switch:

java -jar plantuml.jar -o "c:/outputPng" "c:/directory2"

If you recurse into several directory, there is a slight difference if you provide an absolute or a relative path for

- An <u>absolute path</u> will ensure that all images are output to a single, specific, directory.
- If you provide a <u>relative path</u> then the images is placed in that directory relative to the location of the **in** even if the path begins with a .). When Plantuml processes files from multiple directores then the concomputed output directory.

△ ☑ Types of Output File

Images for your diagrams can be exported in a variety of different formats. By default the format will be a PN following extensions:

Param name	Short param name	Output format	Comment
-tpng	-png	PNG	Default
-tsvg	-svg	SVG	Further details can be found here
-teps	-eps	EPS	Further details can be found here
-teps:text	-eps:text	EPS	This option keeps text as text
-tpdf	-pdf	PDF	Further details can be found here
-tvdx	-vdx	VDX	Microsoft Visio Document
-txmi	-xmi	XMI	Further details can be found here
-tscxml	-scxml	SCXML	
-thtml	-html	HTML	Alpha feature: do not use
-ttxt	-txt	ATXT	ASCII art. Further details can be found
-tutxt	-utxt	UTXT	ASCII art using Unicode characters
-tlatex	-latex	LATEX	Further details can be found here
-tlatex:nopreamble	-latex:nopreamble	LATEX	Contains no LaTeX preamble creating
-tbraille	-braille	PNG	Braille image [Ref. QA-4752]

Example:

java -jar plantuml.jar yourdiagram.txt -ttxt

⊼ ☑ Configuration File

You can also provide a configuration file which will be included before each diagram:

java -jar plantuml.jar -config "./config.cfg" dir1

⊼ ☑ Metadata

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- последовательност прецедентов классов активности активности вытивности вытивности вытивности состояний объ
 - If you does not want plantum to save the diagram's source code in the generated Ping imetadata, you (nometadata to disable this functionality (To NOT export metadata in PNG/SVG generated files).
 - It is possible to retrieve this source with the -metadata option. This means that the PNG is almost "e you cannot install plugins, and someone in the future can update the diagram by getting the metadata, e stand-alone.
 - · Conversely, the -checkmetadata option checks whether the target PNG has the same source and if t thus saving all processing time. This allows you to run PlantUML on a whole folder (or tree with the

Sounds like magic! No, merely clever engineering :-)

Example:

```
java -jar plantuml.jar -metadata diagram.png > diagram.puml
```

Unfortunately this option works only with local files. It doesn't work with -pipe so you cannot fetch a URI

However, the Plantuml server has a similar feature, where it can get a PNG from a URL and extract its metad

☑ Exit code

When there are some errors in diagrams the command returns an error (-1) exit code. But even if some diagram which can be time consuming for large project.

You can use the -failfast flag to change this behavior to stop diagram generations as soon as one error oc and some will not.

There is also a -failfast2 flag that does a first checking pass. If some error is present, no diagram will be even faster than -failfast , which may be useful for huge project.

☑ Standard report [stdrpt]

Using the $\operatorname{\mathsf{-stdrpt}}$ (standard report) option, you can change the format of the error output of y_1



With this option, a different error output of your diagram is possible:

- · none: two lines
- -stdrpt: single line
- -stdrpt:1:verbose
- -stdrpt:2: single line

[Ref. Issue#155 and QA-11805]

Examples, with the bad file file1.pu, where as is written aass:

```
@startuml
participant "Famous Bob" aass Bob
.
@enduml
```

Without any option

```
java -jar plantuml.jar file1.pu
```

The error output is:

```
Error line 2 in file: file1.pu
Some diagram description contains errors
```

-stdrpt option

```
java -jar plantuml.jar -stdrpt file1.pu
```

The error output is:

последовательност прецедентов классов активности активности вытивности вытивности вытивности состояний объ

```
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```

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-stdrpt:1 option

```
java -jar plantuml.jar -stdrpt:1 file1.pu
```

The error output is:

```
protocolVersion=1
status=ERROR
lineNumber=2
label=Syntax Error?
Error line 2 in file: file1.pu
Some diagram description contains errors
```

-stdrpt:2 option (like -stdrpt)

```
java -jar plantuml.jar -stdrpt:2 file1.pu
```

The error output is:

file1.pu:2:error:Syntax Error?

⊼ ☑ Standard Input & Output

Using the -pipe option, you can easily use PlantUML in your scripts.

With this option, a diagram description is received through standard input and the PNG file is generated to sta system.

Example:

```
cat somefile.puml | java -jar plantuml.jar -pipe > somefile.png
```



The -pipemap option can be used to generate PNG map data (hyperlink rectangles) for use in HTML, eg:

```
cat somefile.puml | java -jar plantuml.jar -pipemap > somefile.map
```

The map file looks like this:

Note: Also take a look at -pipedelimitor and -pipeNoStderr to implement proper multiplexing of sever multiple diagrams), and error handling.

⊼ ☑ Help

You can have a help message by launching:

```
java -jar plantuml.jar -help
```

This will output:

```
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                                                                                                            or java -jar plantuml.jar [options] [file/dir] [file/dir] (to process files or directories)
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Быстрый старт
                                                                                                  You can use the following wildcards in files/dirs:

* means any characters but '\'
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                                                                                                                                           one and only one character but '\'
                                                                                                                                           means any characters (used to recurse through directories)
Запуск
                                                                                                  where options include:
F.A.Q.
                                                                                                                                                               To use dark mode for diagrams
To run the graphical user interface
To generate images using PNG format (default)
To generate images using SVG format
To generate images using EPS format
                                                                                                             -darkmode
                                                                                                             -gui
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                                                                                                              -tpng
                                                                                                             -tsvg
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                                                                                                             -teps
                                                                                                                                                                To generate images using PDF format
                                                                                                             -tpdf
Theme
                                                                                                                                                                To generate images using PDF format
To generate images using VDX format
To generate XMI file for class diagram
To generate SCXML file for state diagram
To generate HTML file for class diagram
To generate images with ASCII art
To generate images with ASCII art using Unicode characters
                                                                                                             -tvdx
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                                                                                                             -txmi
                                                                                                              -tscxml

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                                                                                                             -thtml
                                                                                                             -ttxt
                                                                                                              -tutxt
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                                                                                                                                                                To generate images using LaTeX/Tikz format
To generate images using LaTeX/Tikz format without preamble
To generate images in the specified directory
                                                                                                             -tlatex
                                                                                                             -tlatex:nopreamble
-o[utput] "dir"
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                                                                                                             -o[utput] "d:
-DVAR1=value
                                                                                                                                                               To generate images in the specified directory
To set a preprocessing variable as if '!define VAR1 value' we
To set a skin parameter as if 'skinparam param1 value' were u
To set pragma as if '!pragma pragma1 value' were used
To include file as if '!include file' were used
To include files with pattern
To use a specific theme
To use a specific charset (default is windows-1251)
To exclude files that match the provided pattern
To retrieve PlantUML sources from PNG images
To NOT export metadata in PNG/SVG generated files
                                                                                                              -Sparam1=value
                                                                                                              -Ppragma1=value
                                                                                                              -I\path\to\file
                                                                                                             -I\path\to\*.puml
                                                                                                              -theme xxx
                                                                                                             -charset xxx
                                                                                                             -e[x]clude pattern
                                                                                                              -metadata
                                                                                                                                                                To NOT export metadata in PNG/SVG generated files
Skip PNG files that don't need to be regenerated
To display information about PlantUML and Java versions
                                                                                                              -nometadata
                                                                                                             -checkmetadata
                                                                                                             -version
                                                                                                             -v[erbose]
                                                                                                                                                                 To have log information
                                                                                                                                                                To NOT print error message into the console
To generate intermediate svek files
                                                                                                             -quiet
                                                                                                             -debugsvek
                                                                                                            -h[elp] To display this help message
-testdot To test the installation of graphviz
-graphvizdot "exe" To specify dot executable
-p[ipe] To use stdin for PlantUML source and stdout for PNG/SVG/EPS {
-encodesprite 4|8|16[z] "file" To encode a sprite at gray level (z for compi
-computeurl|-encodeurl To compute the encoded URL of a PlantUML source file
-decodeurl To retrieve the PlantUML source from an encoded URL
-syntax To report any syntax error from standard input without gener;
-language To print the list of PlantUML keywords
-checkonly To check the syntax of files without generating images
-failfast To stop processing as soon as a syntax error in diagram occul
-failfast2 To do a first syntax check before processing files, to fail {
-noerror To skip images when error in diagrams
-duration To print the duration of complete diagrams processing
                                                                                                                                                                To display this help message
                                                                                                             -h[elp]
                                                                                                                                                                To print the duration of complete diagrams processing To use (N) threads for processing To use 4 threads for processing
                                                                                                             -duration
                                                                                                             -nbthread N
                                                                                                             -nbthread auto
                                                                                                                                                                Processing timeout in (N) seconds. Defaults to 15 minutes (90 To print information about PlantUML authors
To allow to overwrite read only files
                                                                                                             -timeout N
                                                                                                             -author[s]
                                                                                                             -overwrite
                                                                                                                                                                To print fonts available on your system
To enable statistics computation
To disable statistics computation (default)
                                                                                                              -printfonts
                                                                                                              -enablestats
                                                                                                             -disablestats
                                                                                                                                                                To output general statistics in file plantuml-stats.html
To output general statistics in file plantuml-stats.xml
To generate statistics on the fly rather than at the end
To continuously print statistics about usage
To display a splash screen with some progress bar
To display a textual progress bar in console
                                                                                                             -htmlstats
                                                                                                             -xmlstats
                                                                                                              -realtimestats
                                                                                                             -loopstats
                                                                                                             -splash
                                                                                                             -progress
                                                                                                                                                               To display a textual progress bar in console
To generate the Nth image with pipe option
To print standard library info
To extract PlantUML Standard Library into stdlib folder
To behave as if the PlantUML source is in this dir (only affeounl" To override %filename% variable
To output preprocessor text of diagrams
To cypher texts of diagrams so that you can share them
To start internal HTTP Server. See https://plantuml.com/picov
                                                                                                              -pipeimageindex N
                                                                                                             -stdlib
                                                                                                             -extractstdlib
                                                                                                             -filedir xxx
                                                                                                             -filename "example.puml"
                                                                                                             -preproc
                                                                                                              -cypher
                                                                                                             -picoweb
```

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If needed, you can setup the environment variable GRAPHVIZ_DOT.