PlantUML-Mode - UML Drawings🚧

Move Operation	Keystroke	Function	Notes
PlantUML - Mode	📦 The **plantuml-mode** external package allows you to render **PlantUML markup** to create UML drawing image or ASCII-art text. See also the The Hitchhiker's Guide to PlantUML. 📦 The **flycheck-plantuml** external package integrates plantuml-mode with flycheck to automatically check the syntax of the plantuml files on the fly. PEL activates the **plantuml-mode** package when the **pel-use-plantuml** is non-nil. You can set it to **t** or to **server**. When set to **t** it forces the use of a local platuml.jar program to render the markup. When set to **server** it sends the plantuml markup to the PlantUML server to render it. These values are set in the **plantuml-default-exec-mode** user option. PEL activates the **flycheck-plantuml** package when the **pel-use-flycheck-plantuml** user option is set to **t**. 🎛️ The plantuml-mode package can also be customized via the **plantuml** customization group: use **<F11> <f1> G** plantuml ⌨️ PEL provides 2 different key prefixes: • pel:plantuml, mapped to **<f11> D u**, for global commands that be be issued from any major mode, • pel:for-plantuml, mapped to **<f12>** once the buffer major mode is plantuml-mode. To put a buffer in plantuml-mode use **<f11> D u u**. ⚠️ Text rendering of PlantUML diagrams is limited to 4096 bytes of text. Attempting to render a larger description in 'txt' (text) mode fail. Rendering of diagrams larger than 4096 bytes of text works in graphics mode. Tested on macOS with Graphviz Dot 2.44.0 and PlantUML 1.2020.15.		
Customize PlantUML	• **<f11> <f1> SPC u** • **<f12> <f1>**	(**pel-cfg-pkg-plantuml** &optional OTHER-WINDOW)	Customize PEL PlantUML support. • If OTHER-WINDOW is non-nil (use **C-u**), display in another window and display plantuml-mode customize group as well.
Download & install latest version of PlantUML JAR file	**<f11> D u M-d**	(**plantuml-download-jar**)	Download the latest PlantUML JAR file and install it into 'plantuml-jar-path' (a user option that can be customized).
Se the PlantUML Execution mode	**<f11> D u M-x**	(**plantuml-set-exec-mode** MODE)	Set the execution mode MODE for PlantUML. Prompts for mode. The following modes are available: executable, jar, server.
Activate PlantUML mode	**<f11> D u u**	(**plantuml-mode**)	Activate plantuml-mode
Enable PlantUML debug messages	• **<f11> SPC u M-d** • **<f12> M-d**	(**plantuml-enable-debug**)	Enables debug messages into the *PLANTUML Messages* buffer.
Disable PlantUML debug messages	• **<f11> D u M-D** • **<f12> M-D**	(**plantuml-disable-debug**)	Stops any debug messages to be added into the *PLANTUML Messages* buffer.
Indent the PlantUML line	• **<f11> SPC u <tab>** • **<f12> <tab>**	(**plantuml-indent-line**)	Indent the current line to its desired indentation level. • Restore point to same position in text of the line as before indentation.

Preview UML diagram from plantUML source in current region (if marked) or entire buffer	• **<f11> SPC u p**
	• **<f12> p**
	• **C-c C-c**
		(**plantuml-preview** PREFIX)	Preview diagram from the PlantUML sources.
			• Uses the current region if one is active, or the entire buffer otherwise.
			• Uses prefix (as PREFIX) to choose where to display it:
			  • 4 (when prefixing the command with **C-u**) -> new window
			  • 16 (when prefixing the command with **C-u C-u**) -> new frame.
			  • else -> new buffer

Preview UML diagram from plantUML source in current plantUML region of commented source code	**<f11> D u p**	(**pel-render-commented-plantuml** PREFIX &optional POS)	Render the PlantUML markup embedded in current mode comment.
			• Use region if identified otherwise use PlantUML block at point.
			• Uses prefix (as PREFIX) to choose where to display it:
			  • 4 (when prefixing the command with **C-u**) -> new window
			  • 16 (when prefixing the command with **C-u C-u**) -> new frame.
			  • else -> new buffer
			• This can be used inside buffer using **any** major mode, when PlantUML markup is embedded inside source code comment.
			☝️ Use this in source code to describe your code architecture with PlantUML markup, then generate the UML rendering by moving point inside the PlantUML block and issuing this command.

Preview UML diagram from plantUML source in current buffer	• **<f11> SPC u b**
	• **<f12> b**
		(**plantuml-preview-buffer** PREFIX)	Preview diagram from the PlantUML sources in the current buffer.
			• Uses prefix (as PREFIX) to choose where to display it:
			  • 4 (when prefixing the command with **C-u**) -> new window
			  • 16 (when prefixing the command with **C-u C-u**) -> new frame.
			  • else -> new buffer

Preview UML diagram from plantUML source in current plantUML block	• **<f11> SPC u c**
	• **<f12> c**
		(**plantuml-preview-current-block** PREFIX)	Preview diagram from the PlantUML sources from the previous @startuml to the next @enduml.
			• Uses prefix (as PREFIX) to choose where to display it:
			  • 4 (when prefixing the command with **C-u**) -> new window
			  • 16 (when prefixing the command with **C-u C-u**) -> new frame.
			  • else -> new buffer

Preview UML diagram from plantUML source in current plantUML region	• **<f11> SPC u r**
	• **<f12> r**
		(**plantuml-preview-region** PREFIX BEGIN END)	Preview diagram from the PlantUML sources in from BEGIN to END.
			• Uses the current region when called interactively.
			• Uses prefix (as PREFIX) to choose where to display it:
			  • 4 (when prefixing the command with **C-u**) -> new window
			  • 16 (when prefixing the command with **C-u C-u**) -> new frame.
			  • else -> new buffer

Complete PlantUML symbol	• **<f11> SPC u /** • **<f12> /**	(**plantuml-complete-symbol**)	Perform keyword completion on word before cursor.
Select output type	• **<f11> SPC u o** • **<f12> o**	(**plantuml-set-output-type** TYPE)	Set the desired output type (as TYPE) for the current buffer. • If the major mode of the current buffer mode is not plantuml-mode, set the default output type for new buffers. • The basic output modes are: svg, png and text. The sag and png mode are only available when Emacs runs in graphics mode.

PlantUML — References

Topic & Link	Note
PlantUML @ Wikipedia	Provides an overview
PlantUML home page	PlantUML home page. This site has a lot of publicity, but it's really the official site. It has links to important documents, like: • PlantUML PDF Guide • The Hitchhiker's Guide to PlantUML • PlantUML Standard Library • Preprocessing • F.A.Q • and others…
plantuml-mode @ GitHub	Emacs plantuml-mode package to use PlantUML within Emacs
flycheck-plantuml @ Github	Emacs package: Flycheck for plantuml syntax