## **Fast Emacs Startup**

Operation	<u>Keystroke</u>	Function	<u>Note</u>
Run Emacs in a fast setup mode	The number of external packages installed have an impact on the time Emacs start to complete its initialization phase.  As this number grows and the number of directories in the -/.emacs.d/elpa directory increases, Emacs must process each directory: it places each of them in the load-path and loads the autoloads.el and the -pkg.el of each of them.  PEL is designed to minimize the startup time by using several techniques, but it has no control over the number of elope sub-directories. With a large number of elope directories, Emacs startup time can increase noticeably.  Emacs supports multiple techniques to reduce this startup time:  Take advantage of lazy loading, and load the strict minimum, using Emacs autoload mechanism to identify commands that will trigger the loading of the package that implement them. PEL use these techniques intensively.  Emacs 27 and later support a package-quickstart mechanism that creates a single autoloads.el file for all installed elpa packages, reducing the startup time. A early-init file must be written to take advantage of this technique. PEL supports this mechanism.  Reduce the number of packages. By removing the installed external packages that you do not need you reduce Emacs startup processing. With PEL you can disable the user-options and use pel-cleanup to remove the excessive packages and any dependency that is no longer required.  Even when you take advantage of the techniques describe above, you may find that Emacs starts slower than desired when you use a large number of external packages. At this point you can activate PEL's Emacs fast startup mode of operation. This is a special setup where the code of all external single-directory Elpa packages are placed inside a single directory. This reduces Emacs startup further and in some situations this reduction may be drastic. And it can be used along with all above techniques.  This technique takes advantage of the fact that the name of every Emacs package should be distinct, like the names of all functions and the names o		
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