Emacs Lisp — Hooks

Hook Variable Name	Standard Hook Emacs version	Reference	
Emacs Standard Hooks	🚧 This table is in early stage of development. It lists the standard Emacs hooks with links to the manual. After that it lists some of the hooks added by several packages that PEL integrates with, however the list is not yet complete and the description information is not there.		
activate-mark-hook	Y: 26	See The Mark.	
after-change-functions	Y: 26	See Change Hooks.	
after-change-major-mode-hook	Y: 26	See Mode Hooks.	
after-init-hook	Y: 26	See Init File.	
after-insert-file-functions	Y: 26	See Format Conversion.	
after-make-frame-functions	Y: 26	See Creating Frames.	
after-save-hook	Y: 26	See Saving Buffers.	
after-setting-font-hook	Y: 26	Hook run after a frame's font changes.	
auto-save-hook	Y: 26	See Auto-Saving.	
before-change-functions	Y: 26	See Change Hooks.	
before-hack-local-variables-hook	Y: 26	See File Local Variables.	
before-init-hook	Y: 26	See Init File.	
before-make-frame-hook	Y: 26	See Creating Frames.	
before-save-hook	Y: 26	See Saving Buffers.	
buffer-access-fontify-functions	Y: 26	See Lazy Properties.	
buffer-list-update-hook	Y: 26	See Buffer List. Hook run when the buffer list changes.	
buffer-quit-function	Y: 26	Function to call to quit the current buffer.	
change-major-mode-after-body-hook	Y: 26	See Mode Hooks.	
change-major-mode-hook	Y: 26	See Creating Buffer-Local.	
command-line-functions	Y: 26	See Command-Line Arguments.	
deactivate-mark-hook	Y: 26	See The Mark.	
delayed-warnings-hook	Y: 26	The command loop runs this soon after post-command-hook (q.v.).	
delete-frame-functions	Y: 26	See Deleting Frames.	
delete-terminal-functions	Y: 26	See Multiple Terminals.	
echo-area-clear-hook	Y: 26	See Echo Area Customization.	
emacs-startup-hook	Y: 26	See Init File.	
find-file-hook	Y: 26	See Visiting Functions.	
find-file-not-found-functions	Y: 26	See Visiting Functions.	
first-change-hook	Y: 26	See Change Hooks.	
focus-in-hook	Y: 26	See Input Focus.	
focus-out-hook	Y: 26	See Input Focus.	
font-lock-extend-after-change-region-function	Y: 26	See Region to Refontify.	
font-lock-extend-region-functions	Y: 26	See Multiline Font Lock.	
font-lock-fontify-buffer-function	Y: 26	See Other Font Lock Variables.	
font-lock-fontify-region-function	Y: 26	See Other Font Lock Variables.	
font-lock-mark-block-function	Y: 26	See Other Font Lock Variables.	
font-lock-syntactic-face-function	Y: 26	See Syntactic Font Lock & Syntax Properties.	
font-lock-unfontify-buffer-function	Y: 26	See Other Font Lock Variables.	
font-lock-unfontify-region-function	Y: 26	See Other Font Lock Variables.	
fontification-functions	Y: 26	See Automatic Face Assignment.	
frame-auto-hide-function	Y: 26	See Quitting Windows.	
hack-local-variables-hook	Y: 26	See File Local Variables.	
kill-buffer-hook	Y: 26	See Killing Buffers.	
kill-buffer-query-functions	Y: 26	See Killing Buffers.	
kill-emacs-hook	Y: 26	See Killing Emacs.	
kill-emacs-query-functions	Y: 26	See Killing Emacs.	
menu-bar-update-hook	Y: 26	See Menu Bar.	
minibuffer-exit-hook	Y: 26	See Minibuffer Misc.	
mouse-leave-buffer-hook	Y: 26	Hook run when about to switch windows with a mouse command.	
mouse-position-function	Y: 26	See Mouse Position.	
pop-up-frame-function	Y: 26	See Choosing Window Options.	
post-command-hook	Y: 26	See Command Overview.	
post-gc-hook	Y: 26	See Garbage Collection.	
post-self-insert-hook	Y: 26	See Keymaps and Minor Modes.	
pre-command-hook	Y: 26	See Command Overview.	
pre-redisplay-functions	Y: 26	See Forcing Redisplay.	Hook run in each window just before redisplaying it.

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prefix-command-echo-keystrokes-functions	Y: 26	See Prefix Command Arguments.	An abnormal hook run by prefix commands (such as C-u) which should return a string describing the current prefix state. For example, **C−u** produces 'C-u-' and 'C-u 1 2 3-'. Each hook function is called with no arguments and should return a string describing the current prefix state, or nil if there's no prefix state.
prefix-command-preserve-state-hook	Y: 26		Hook run when a prefix command needs to preserve the prefix by passing the current prefix command state to the next command. For example, **C−u** needs to pass the state to the next command when the user types **C−u −** or follows **C−u** with a digit.
resume-tty-functions	Y: 26	See Suspending Emacs.	
split-window-preferred-function	Y: 26	See Choosing Window Options.	
suspend-hook	Y: 26	See Suspending Emacs.	
suspend-resume-hook	Y: 26	See Suspending Emacs.	
suspend-tty-functions	Y: 26	See Suspending Emacs.	
syntax-begin-function	Y: 26	See Syntactic Font Lock & Syntax Properties.	
syntax-propertize-extend-region-functions	Y: 26	See Syntactic Font Lock & Syntax Properties.	
syntax-propertize-function	Y: 26	See Syntactic Font Lock & Syntax Properties.	
temp-buffer-setup-hook	Y: 26	See Temporary Displays.	
temp-buffer-show-function	Y: 26	See Temporary Displays.	
temp-buffer-show-hook	Y: 26	See Temporary Displays.	
tty-setup-hook	Y: 26	See Terminal-Specific.	
window-configuration-change-hook	Y: 26	See Window Hooks.	
window-scroll-functions	Y: 26	See Window Hooks.	
window-setup-hook	Y: 26	See Init File.	
window-size-change-functions	Y: 26	See Window Hooks.	
write-contents-functions	Y: 26	See Saving Buffers.	
write-file-functions	Y: 26	See Saving Buffers.	
write-region-annotate-functions	Y: 26	See Format Conversion.	
write-region-post-annotation-function	Y: 26	See Format Conversion.	
delay-mode-hooks	Y: 23+		
Other Hooks			
abbrev-mode-hook			
ace-window-display-mode-hook			
after-revert-hook			
auto-composition-mode-hook			
auto-compression-mode-hook			
auto-encryption-mode-hook			
auto-fill-mode-hook			
auto-lower-mode-hook			
auto-raise-mode-hook			
auto-save-mode-hook			
auto-save-visited-mode-hook			
avy-linum-mode-hook			
awk-mode-hook			
before-revert-hook			
binary-overwrite-mode-hook			
blink-cursor-mode-hook			
bookmark-after-jump-hook			
bookmark-bmenu-mode-hook			
bookmark-edit-annotation-mode-hook			
bookmark-exit-hook			
bookmark-exit-hooks			
bookmark-load-hook			
Buffer-menu-mode-hook			
buffer-menu-mode-hook			
c-initialization-hook			
c-mode-common-hook			
c-mode-hook			
c-special-indent-hook			
c++-mode-hook			
cl-old-struct-compat-mode-hook			
clone-buffer-hook			
clone-indirect-buffer-hook			
column-number-mode-hook			
compilation-mode-hook			

Hook Variable Name	Standard Hook Emacs version	Reference	
compilation-start-hook			
completion-in-region-mode-hook			
completion-list-mode-hook			
completion-setup-hook			
cua-mode-hook			
cua-rectangle-mark-mode-hook			
custom-define-hook			
cvs-dired-use-hook			
delayed-after-hook-functions			
delayed-mode-hooks			
delete-frame-hook			
delete-selection-mode-hook			
dframe-after-select-attached-frame-hook			
dframe-setup-hook			
disabled-command-hook			
display-time-hook			
display-time-mode-hook			
display-time-world-mode-hook			
edebug-setup-hook			
ediff-after-quit-hook-internal			
ediff-after-session-group-setup-hook			
ediff-after-setup-control-frame-hook			
ediff-after-setup-windows-hook			
ediff-before-session-group-setup-hooks			
ediff-before-setup-control-frame-hook			
ediff-before-setup-hook			
ediff-before-setup-windows-hook			
ediff-cleanup-hook			
ediff-display-help-hook			
ediff-keymap-setup-hook			
ediff-load-hook			
ediff-meta-buffer-keymap-setup-hook			
ediff-meta-mode-hook			
ediff-mode-hook			
ediff-prepare-buffer-hook			
ediff-quit-hook			
ediff-quit-merge-hook			
ediff-quit-session-group-hook			
ediff-registry-setup-hook			
ediff-select-hook			
ediff-show-registry-hook			
ediff-show-session-group-hook			
ediff-startup-hook			
ediff-suspend-hook			
ediff-unselect-hook			
edit-abbrevs-mode-hook			
eieio-hook			
eldoc-mode-hook			
electric-indent-local-mode-hook			
electric-indent-mode-hook			
electric-layout-mode-hook			
electric-pair-local-mode-hook			
electric-pair-mode-hook			
electric-quote-local-mode-hook			
electric-quote-mode-hook			
elisp-byte-code-mode-hook			
emacs-lisp-mode-hook			
erc-ctcp-query-DCC-hook			
erlang-mode-hook			
eval-expression-minibuffer-setup-hook			
exit-language-environment-hook			
file-name-shadow-mode-hook			
find-file-hooks			
find-file-not-found-hooks			

Hook Variable Name	Standard Hook Emacs version	Reference	
find-function-after-hook			
find-tag-hook			
flyspell-incorrect-hook			
flyspell-mode-hook			
font-lock-mode-hook			
free-keys-mode-hook			
global-auto-composition-mode-hook			
global-eldoc-mode-hook			
global-font-lock-mode-hook			
global-hl-line-mode-hook			
global-prettify-symbols-mode-hook		4	
global-undo-tree-mode-hook			
global-visual-line-mode-hook			
grep-setup-hook			
help-mode-hook			
highlight-defined-mode-hook			
hl-line-mode-hook			
idl-mode-hook			
ido-everywhere-hook			
ido-make-buffer-list-hook			
ido-make-dir-list-hook			
ido-make-file-list-hook			
ido-minibuffer-setup-hook			
ido-setup-hook			
imenu-after-jump-hook			
Info-edit-mode-hook			
Info-mode-hook			
Info-selection-hook			
inhibit-modification-hooks			
inhibit-point-motion-hooks			
inhibit-startup-hooks			
input-method-activate-hook			
input-method-after-insert-chunk-hook			
input-method-deactivate-hook			
input-method-inactivate-hook			
isearch-mode-end-hook			
isearch-mode-end-hook-quit			
isearch-mode-hook			
isearch-update-post-hook			
ispell-initialize-spellchecker-hook			
ispell-kill-ispell-hook			
ispell-minor-mode-hook			
ispell-update-post-hook			
java-mode-hook			
jit-lock-debug-mode-hook			
kbd-macro-termination-hook			
line-number-mode-hook			
lisp-interaction-mode-hook			
lisp-mode-hook			
local-write-file-hooks			
mail-citation-hook			
mail-setup-hook			
menu-bar-mode-hook			
messages-buffer-mode-hook			
minibuffer-inactive-mode-hook			
minibuffer-setup-hook			
mode-local-init-hook			
next-error-follow-minor-mode-hook			
next-error-hook			
normal-erase-is-backspace-mode-hook			
objc-mode-hook			
occur-edit-mode-hook			
occur-hook			
occur-mode-find-occurrence-hook			

Hook Variable Name	Standard Hook Emacs version	Reference	
occur-mode-hook			
override-global-mode-hook			
overwrite-mode-hook			
package--post-download-archives-hook			
package-menu-mode-hook			
paragraph-indent-minor-mode-hook			
paragraph-indent-text-mode-hook			
parinfer-after-execute-hook			
parinfer-mode-disable-hook			
parinfer-mode-enable-hook			
parinfer-mode-hook		5	
parinfer-region-mode-hook			
parinfer-switch-mode-hook			
pike-mode-hook			
pre-abbrev-expand-hook			
prettify-symbols-mode-hook			
process-menu-mode-hook			
prog-mode-hook			
python-mode-hook			
quickurl-reread-hook-postfix			
rainbow-delimiters-mode-hook			
read-only-mode-hook			
rectangle-mark-mode-hook			
replace-update-post-hook			
rfn-eshadow-setup-minibuffer-hook			
rfn-eshadow-update-overlay-hook			
rg-mode-hook			
rmail-mode-hook			
rmail-show-message-hook			
rst-mode-hook			
set-language-environment-hook			
signal-hook-function			
size-indication-mode-hook			
special-mode-hook			
speedbar-after-create-hook			
speedbar-before-delete-hook			
speedbar-before-popup-hook			
speedbar-before-visiting-file-hook			
speedbar-before-visiting-tag-hook			
speedbar-load-hook			
speedbar-mode-hook			
speedbar-reconfigure-keymaps-hook			
speedbar-scanner-reset-hook			
speedbar-timer-hook			
speedbar-vc-directory-enable-hook			
speedbar-vc-in-control-hook			
speedbar-visiting-file-hook			
speedbar-visiting-tag-hook			
tabulated-list-mode-hook			
tabulated-list-revert-hook			
temp-buffer-resize-mode-hook			
temp-buffer-window-setup-hook			
temp-buffer-window-show-hook			
term-setup-hook			
text-mode-hook			
tool-bar-mode-hook			
tooltip-hook			
tooltip-mode-hook			
transient-mark-mode-hook			
undo-tree-mode-hook			
undo-tree-visualizer-mode-hook			
undo-tree-visualizer-selection-mode-hook			
unify-8859-on-decoding-mode-hook			
unify-8859-on-encoding-mode-hook			

Hook Variable Name	Standard Hook Emacs version	Reference	
url-handler-mode-hook			
url-load-hook			
use-hard-newlines-hook			
use-package-hook-name-suffix			
use-package-inject-hooks			
use-package-statistics-mode-hook			
vc-before-checkin-hook			
vc-checkin-hook			
vc-checkout-hook			
visible-mode-hook			
visual-line-mode-hook			
which-key-init-buffer-hook			
which-key-mode-hook			
window-divider-mode-hook			
winner-mode-hook			
winner-mode-leave-hook			
winner-mode-off-hook			
write-contents-hooks			
write-file-hooks			

Hook — References

GNU Emacs Lisp Manual - Hooks	
GNU Emacs Lisp Manual - Mode Hooks	
how to disable minor mode (enabled using prog-mode-hook) for a particular major mode	
Find how this works and how to control modes in emacs	