

EmacsCrashCourse

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May 2019

1 Introduction

Kill Emacs = C-x C-c
Undo = Ctrl + _
Redo = Ctrl + g
Save = Ctrl+x Ctrl+s
Quit = Ctrl+x Ctrl+c
Cancel = Ctrl+g

2 Open,Save,Close File

Open (find-file) = Ctrl+x Ctrl+f
Save (save-buffer) = Ctrl+x Ctrl+s
Close (kill-buffer) = Ctrl+x k

3 Copy, Paste, Undo

Undo (To redo) = Ctrl + _
Copy,Save, (kill-ring) = Alt + w
Cut(kill-region) = Ctrl + w
Paste, yank = Ctrl + y

4 Moving the Cursor

Move cursor left by 1 word (backward-word) = Ctrl + ← or Alt + b
Move cursor right by 1 word (forward-word) = Ctrl + → or Alt + f
Beginning of File (beginning-of-buffer) = Ctrl + Home or Alt + <
End of document (end-of-buffer) = Ctrl + End or Alt + >
Move cursor left by 1 char (backward-char) = Ctrl + b
Move cursor right by 1 char (forward-char) = Ctrl + f
Ctrl + v = (scroll-up-command page down
Alt + v = scroll-down-command page up

5 Deleting Text

Delete the word to the right (kill-word) = Alt + d
Delete the previous word (backward-kill-word) = Alt + Backspace
Delete all characters from the cursor to the end of the line = Ctrl + k (kill-line)

6 Select Text

Ctrl + Space (set-mark-command) Mark the starting point for copy/cut a text (move cursor to extend selection)
Select all (mark-whole-buffer) = Ctrl+x h

7 Split Window:

Split window into top/bottom (split-window-below) = Ctrl+x 2
Split window side by side (split-window-right) = Ctrl+x 3
Remove all split panes (delete-other-windows) = Ctrl+x 1
Move cursor to other panes (other-window) Ctrl+x 0

8 Searching Text

Ctrl+s search_word
*Type*ctrl + s → to go to word
Ctrl + r → jump back
Exit search and go to original location → ctrl + g

9 Stand Copy Paste Keys

Go into cua-mode = Alt + x
When you are in cuamode: Cut = Ctrl + x Copy = Ctrl + c Paste = Ctrl + r Undo = Ctrl + z

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// Having cua mode always on: (put in emacs init file
;;use C-x for cut
C-c for copy
C-v paste
(cua-mode 1)
```

In emacs, every keystore is a command
To run a command,
type Alt + x command_name
Alt + xexecute – extended – command → execute command by name.
Alt + x keyboard_quit [Ctrl+g] → Create a command in progress or cancel unfinished keyboard sequence.

10 Finding a Command's Name or Keyboard Structure:

Alt+x describe-function *Alt + xdescribe – key*

11 Find and Replace Commands

Alt + x query-replace or Alt + % ⇒ interactive find/replace on an active region, or cursor point to the end.
Alt + x query-replace-regexp [Ctrl+Alt+%] → interactive find replace with regex on an active region or cursor point to the end.
Alt + x dired-do-query-replace-regexp
In **dired**, [Q] → interactive find and replace on marked files in dired.
When a query command asks ou for confirmation, here are the most common keys:

y → do the replacement.
 n → skip
 → do this and all remaining replacements without **prompt**
 Ctrl+g
 → to cancel

12 Batch Replace:

Alt + x replace-string → find and replace in one shot, without **prompt**
 From cursor position to end of buffer or text selection
 Alt + x replace-regex → same as replace-string but with **regex**

13 Inserting a Literal Tab/New Line

Insert a literal tab:
 Ctrl + q Ctrl + Tab

Insert a new line:
 Ctrl + q Return

Default Case Sensitivity

If your search string contains a capital letter:

search is case sensitive:

otherwise, it is not case-sensitive

Example 1:

For example, if our search string is here

The replacement string is Dragon

Emacs will look for here, Here, HERE

if emacs finds here:

replacement := dragon

if emacs finds Here:

replacement := Dragon

if emacs finds HERE:

replacement := DRAGON

To set replacement to the case of search string:

Set variable case-replace = nil

Alt + x set-variable

To turn off Smart Case Sensitivity:

Alt + x toggle-case-fold-search

Suppose we want to force a case change on matched text in Regex Match:

Suppose:

```
<p> Once upon a time </p>
<p> There is a dragon </p>
<p> Princess Tana is still waiting </p>
```

First Letter after p

⇒ p

```
\([a-z]\)\. \end{verbatim}
```

```
\\
```

To make captured pattern uppercase: give replacement string this expression:

```
\\
```

```
\begin{verbatim} <p> \, (upcase \1).\end{verbatim}
```

```
\\
```

Find and replace text in a directory.

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\\
Select Target Directory:
\\
Alt + x dired-type \<directory-path\>
\\
\\~ - to go up a directory
\\
(Note: Cursor should be on a given directory)
\\
\section{Select Some Files}
\\
Find/Replace only some files ending in .html or .js
\\
\textbf{\underline{You will need to mark them}}
\\
If there are marked files:
\\
emacs will find and replace only the marked files.
\\
When there are no marked files, emacs will find/replace on directories that the cursor is already on.
\\
\section{Marking Directories:}
m - mark directory under cursor
\\
u - unmark directory
\\
U - unmark all marked \underline{directories}
\\
\section{Mark by Regular Expression}
Alt + x dired-mark-files-regexp \%m \<regexp\_pattern\>
\\
E.g. mark all files ending in .html
\\
\\%m \.html\$
\\
\section{On The Spot Find and Replace}
Alt + x dired-do-query-replace-regexp [Q]
\\
(e.g. Type queen \Enter princess.)
\\
\underline{Top Pane} = File where a match is found
\\
\underline{Bottom Pane} = Shows a list of files where a match is found.
\\
(Buffer name is xref).
\\
Type y to replace current highlighted occurrence. (emacs will jump to the next occurrence).
\\
Type n to skip
\\
Type Ctrl+g to abort whole find/replace scenario.
\\
Type \! to replace all occurrences in current file without any more \textbf{prompts}
\\
Type N to skip all possible replacements for the rest of the file.
\\

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Type Y to do replacement on all files without asking.
\\
\underline{Cancel out without saving:}
\\
Ctrl + g + exit emacs
\\
Move cursor to the \"xref\" pane:
\\
Enter $\Rightarrow$ display reference on current line
\\
n or . $\Rightarrow$ move to the next ref and display in other window (xref-next-line).
\\
p or , $\Rightarrow$ Move to the previous reference and display it in the other window (xref-prev-line).
\\
Ctrl + o $\Rightarrow$ Display the reference on the current line in the other window. (xref-show-location-at-
\\
r $\Rightarrow$ Prompt to find replace with regex (xref-query-replace-in-results)
\\
q $\Rightarrow$ Quit the window showing buffer \"xref\" (quit-window)
\\
In the \underline{xref-buffer:}
\\
Alt + x describe-mode $\Rightarrow$ See documents
\\
\section{Save Changed Files:}
\\
Alt + x ibuffer $\Rightarrow$ list all opened files
\\
\\*u = mark all unsaved files.
\\
S = save all marked files
\\
D = close all files
\\
Alt + x save-some-buffers [Ctrl+x s]
\\
emacs will display each unsaved file and ask if you want it saved.
\\
\underline{Dired Operations:}
\\
$\rightarrow$ dired
\\
Enter (dired-find-file) = open directory
\\
[q](quit-window) = Done. Display last buffer (kill-buffer)
\\
[C] - (dired-do-copy) - Copy File
\\
[R] - (dired-do-rename) - Rename/move file
\\
[D](dired-do-delete) - Delete directory
\\
[t] - (dired-create-directory) $\rightarrow$ create new directory
\\
[z] (dired-do-compress) $\rightarrow$ compress/decompress the file with gzip.
\\

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\section{More DireD Navigation Commands:}
[g](revert-buffer) $\rightarrow$ refresh directory listing
\\
[\~](dired-up-directory) $\rightarrow$ go to parent directory
\\
[$>$] dired-next-dirline $\rightarrow$ move cursor to next subdirectory
\\
[$<$] dired-prev-dirline $\rightarrow$ Move cursor to previous subdirectory
\\
\section{Complete List of Directory Commands:}
While in \textbf{dired mode}:
\\
Alt + x describe-mode
\\
\section{Emacs(Shell):}
Alt + x shell $\rightarrow$ summon shell.
\\
To run a previous command $\rightarrow$ Ctrl + $\uparrow$
\\
\underline{SSH in Emacs:}
\\
Alt + x term (new term for each command call).
\\
To exit: Ctrl + d
\\
While in term-mode:
\\
Alt + x describe-mode [Ctrl + h m] = view full list of hotkeys available.
\\
\underline{Call a shell command once:}
\\
Alt + x shell-command [Alt + \!]
\\
to run just 1 shell command.
\\
Alt + x shell-command ls
\\
\underline{How to send current text selection to a shell command:}
\\
Select a region, then Alt + x shell-command-on-region [Alt + |].
\\
E.g. Select a Region
\\
Type [Alt + \ | wc -l Enter].
\\
$\rightarrow$ Prints Line count of the region
\\
You can replace selected region with the result.
\\
Alt + x universal-argument [Ctrl + u]
\\
\section{Common trick to use unix shell commands on windows}
Alt + x eshell
\\
\underline{DireD Viewer Customization:}
\\

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M-x dired-hide-details mode
\\
In \underline{dired}, Alt + x dired-hide-details-mode
\\
Key $\Rightarrow$ (
\\
If \underline{hide-details always on:}
\\

\includegraphics[width=\linewidth]{hide-details.png}

\includegraphics[width=\linewidth]{delete-directory.png}

In \underline{dired},
\\
Alt + x dired-do-delete [D] - delete directory
\\
\section{Copy from one dired dir to the next dired dir shown in a split window:}
\\
Put in \underline{emacs init:}
\\
\begin{verbatim} (setq dired-dwim-target t)\end{verbatim}
\\
\^{} eval or restart emacs
\\
Now in \underline{dired}: Alt + x split-window-below, go to another dired dir
\\
When you press C to copy: the other dir in the split pane will be the default destination.
\\
Same for dired-do-rename [R], etc...
\\
Make dired use same buffer for viewing directory:
\\
In dired, Alt + x dired-find-alternate-file [a] $\Rightarrow$ open file without creating a new buffer.
\\
If you want Enter or \^{} to use some buffer $\Rightarrow$ put in emacs init.
\\
\includegraphics[width=\linewidth]{samebuffer.png}
\section{Hide Files:}
Alt + x dired-do-kill-lines [k] = hide marked files
\\
\section{Major Modes}
Always in a major mode
\section{Get a List of Major Modes:}
Alt + x apropos-command
\\
then, type -mode
\\
Alt + x describe-variable
\\
then type auto-mode-alist
\\
What is the current major mode or how to find the value?
\\
Alt + x describe-variable
\\

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then type major-mode
\\
\underline{Color Themes:}
\\
Alt + x customize-themes $\Rightarrow$ set color theme.
\\
Alt + x load-theme,
\\
then press Tab to show available themes
\\
To clear theme: Alt + x disable-theme
\\
Press Tab for Completion:
\\
\underline{To Find themes:}
\\
Alt+x describe-variable
\\
then type custom-enabled-themes
\\
set theme permissions in emacs init:
\\
(load-theme 'misterioso)
\\
\includegraphics[width=\linewidth]{installpackages.png}
\section{Dired Navigation:}
Enter Dired for local directory:
\\
C-x d(dired)
\\
Use M-x dired to go into dired mode
\\
n/C-n/SPC = Will move down to the next line.
\\
p/C-p/Del = Will move up to the previous line.
\\
j = goto a file (dired-goto-file).
\\
M-s f C-s (dired-isearch-filenames) = forward incremental search in dired buffer.
\\
M-s f M-C-s (dired-isearch-filenames-regexp) = same as above but for reg exp.
\\
d = Flag this file for deletion (dired-flag-file-deletion).
\\
u = Remove deletion flag (dired-unmark).
\\
$<DEL>$ = Move point to previous line and remove the deletion flag on that line. (dired-unmark-backward).
\\
x = delete flags flagged for deletion (dired-do-flagged-delete).
\\
\Program{%
  \CodeComment{//Dired is on a sort of \underline{safe mode}}
  \\
  \> Try out ...
  \\
  \> dired-recursive-deletes $\rightarrow$ non-nil.

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\\
\\> delete-by-moving-to-trash $\rightarrow$ t.
}
\underline{Flagging many files at once:}
\# = Flag all auto-save files (files ending with \#) for deletion.
\\
- = Flag all backup(files with -) for deletion.
\\
. (Period) = Flag all excess numeric backup files for deletion.
\\
Oldest/newest backup files are exempt but everything in the middle is flagged.
\\
$% &$ = flag for deletion all files with certain kinds of names which suggest you could easily create those f
\\
$% d regexp <RET> $ = flag for deletion all files whose names match regexp.
\\
\underline{Visiting Files in Dired:}
\\
f = visit file described on current line (C-x C-f $<fileName>$) (dired-find-file).
$<RET>$
\\
e = equivalent to f.
\\
o = Like f, but creates a new window to display file-buffer (dired-find-file-other-window).
\\
v = View file described on the current line, with view mode (dired-view-file) (read only).
\\
$^$ = Visit the parent directory of (dired-up-directory).
\\
Instead of flagging a file with "D": you can mark the file (usually with *)
\\
Most Dired commands to operate on files are marked with a *
\\
The \underline{Only} command to operate on flagged files is x = to delete them.
\\
m = mark a file
\\
* m = Mark the current file with a *
\\
If the region is active, mark all files in the region instead.
If n = int, mark next n files (-n means to go back to previous n files).
\\
If subdirectory is marked, all files in subdirectories are \underline{marked}.
\\

* * = Mark all executable files with * (dired-mark-executables) (With a numeric argument, unmark all files).
\\
* @ = Mark all symbolic links with * (dired-mark-symlinks) (with a num arg, unmark all files).
\\
* $/$ = Mark with * all directories except . and .. (dired-mark-directories) (With a num arg, unmark all file
\\
* s = Mark all files in current subdirectory, besides ., .. (dired-mark-subdir-files).
\\
* U = Remove any mark on this line (dired-unmark) If region is active, unmark all files in the region instead
\\
* $<DEL>$ = Move point to previous line and remove any mark on that line. (dired-unmark-backward). If the reg

```

