# GNU Emacs Reference Card

(for version 20)

## Leaving Emacs

| | |
|---|---|
| exit Emacs permanently | C-x C-c |

## Files

| | |
|---|---|
| **read** a file into Emacs | C-x C-f |
| **save** a file back to disk | C-x C-s |
| save **all** files | C-x s |
| **insert** contents of another file into this buffer | C-x i |
| write buffer to a specified file | C-x C-w |

## Getting Help

The help system is simple. Type `C-h` (or `F1`) and follow the directions. If you are a first-time user, type `C-h t` for a **tutorial**.

| | |
|---|---|
| remove help window | C-x 1 |
| scroll help window | C-M-v |
| apropos: show commands matching a string | C-h a |
| show the function a key runs | C-h c |
| describe a function | C-h f |
| get mode-specific information | C-h m |

## Error Recovery

| | |
|---|---|
| **abort** partially typed or executing command | C-g |
| **recover** a file lost by a system crash | M-x recover-file |
| **undo** an unwanted change | C-x u or C-_ |
| restore a buffer to its original contents | M-x revert-buffer |
| redraw garbaged screen | C-l |

## Search and Replace

| | |
|---|---|
| search forward | C-s |
| search backward | C-r |
| exit incremental search | RET |
| abort current search | C-g |

Use `C-s` or `C-r` again to repeat the search in either direction. If Emacs is still searching, `C-g` cancels only the part not done.

| | |
|---|---|
| interactively replace a text string | M-% |

## Motion

| | |
|---|---|
| scroll to next screen | C-v |
| scroll to previous screen | M-v |
| scroll left | C-x < |
| scroll right | C-x > |
| scroll current line to center of screen | C-u C-l |



## Killing and Deleting

| entity to kill | backward | forward |
|---|---|---|
| character (delete, not kill) | DEL | C-d |
| line (to end of) | M-0 C-k | C-k |
| yank back last thing killed | C-y | |

## Multiple Windows

When two commands shown, the second is for "other frame."

| | | |
|---|---|---|
| delete all other windows | C-x 1 | |
| split window, above and below | C-x 2 | C-x 5 2 |
| delete this window | C-x 0 | C-x 5 0 |
| split window, side by side | C-x 3 | |

## Formatting

| | |
|---|---|
| indent current **line** (mode-dependent) | TAB |
| indent **region** (mode-dependent) | C-M-\ |

## The Minibuffer

The following keys are defined in the minibuffer.

| | |
|---|---|
| complete as much as possible | TAB |
| show possible completions | ? |
| abort command | C-g |

## Buffers

| | |
|---|---|
| select another buffer | C-x b |
| list all buffers | C-x C-b |
| kill a buffer | C-x k |

## Shells

| | |
|---|---|
| execute a shell command | M-! |
| start a shell in window `*shell*` | M-x shell |

## Info

| | |
|---|---|
| enter the Info documentation reader | C-h i |
| find specified function or variable in Info | C-h C-i |
| Moving within a node: | |
| scroll forward | SPC |
| scroll reverse | DEL |
| beginning of node | . (dot) |
| Moving between nodes: | |
| **next** node | n |
| **previous** node | p |
| move **up** | u |
| follow cross reference (return with `l`) | f |
| return to last node you saw | l |
| Other: | |
| run Info **tutorial** | h |
| **quit** Info | q |



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# Unix Reference

(for the CSIL lab)

## Files and Directories

When specifying a directory, ~ indicates the home directory and `..` indicates one level up.

| | |
|---|---|
| view current directory contents | `ls` |
| view contents of *directory* | `ls` *directory* |
| display current directory | `pwd` |
| change current directory | `cd` *directory* |
| remove empty directory | `rmdir` *directory* |
| create directory | `mkdir` *directory* |
| remove file | `rm` *file* |
| copy a file | `cp` *from to* |
| move a file | `mv` *from to* |

## Working with files

| | |
|---|---|
| view a text file | `more` *file* |
| start Emacs | `emacs` *file* |
| start Emacs in background (lab only) | `emacs` *file* `&` |

## Other commands

| | |
|---|---|
| open Netsacpe (in lab only) | `netscape &` |
| fix your backspace (if not working) | `stty erase ^H` |

## More help

| | |
|---|---|
| help on a command | `man` *command* |
| find commands about *word* | `apropos` *word* |

## X Windows

This is the GUI you use in the lab. You an right-click on the background and select "Logout" to exit or "Programs" and then "Terminal" to get a command window.

## C programs

| | |
|---|---|
| compile a C program | `gcc` *program*`.c` |
| add to output as *prog* | `-o` *prog* |
| execute the program in *prog* | `./`*prog* |