

Villanova University
CSC 2400: Computing Systems I
The Emacs Editor

In Emacs all work is accomplished by calling functions. To call a function, type "ESC x *function*".

Many function calls are bound to keystrokes. These tables show some keystroke bindings. Bindings in **boldace** are commonly used.

Moving the Point

| Key | Function | Description |
|-------------------|----------------------------|---|
| → | forward-char | Move the point forward one character |
| ← | backward-char | Move the point backward one character |
| ↓ | next-line | Move the point to the next line |
| ↑ | previous-line | Move the point to the previous line |
| C-f | forward-char | Move the point forward one character |
| C-b | backward-char | Move the point backward one character |
| C-n | next-line | Move the point to the next line |
| C-p | previous-line | Move the point to the previous line |
| ESC f | forward-word | Move the point to the next word |
| ESC b | backward-word | Move the point to the previous word |
| | | |
| | | |
| C-a | beginning-of-line | Move the point to beginning of the line |
| C-e | end-of-line | Move the point to end of the line |
| ESC a | c-beginning-of-statement | Move the point to the beginning of the C statement |
| ESC e | c-end-of-statement | Move the point to the end of the C statement |
| PageDn | scroll-up | Move the point to the next page (but not with some terminal apps) |
| PageUp | scroll-down | Move the point to the previous page (but not with some terminal apps) |
| C-v | scroll-up | Move the point to the next page |
| ESC v | scroll-down | Move the point to the previous page |
| ESC < | beginning-of-buffer | Move the point to the beginning of the buffer |
| ESC > | end-of-buffer | Move the point to the end of the buffer |
| ESC C-a | beginning-of-defun | Move the point to the beginning of the C function |
| ESC C-e | end-of-defun | Move the point to the end of the C function |
| C-x l line | goto-line | Move the point to the line whose number is <i>line</i> |

Inserting and Deleting

| Key | Function | Description |
|-------------|----------------------------------|---|
| BSP | c-electric-backspace | Delete the character before the point |
| ESC BSP | backward-kill-word | Delete the characters from the point to the beginning of the word |
| C-d | c-electric-delete-forward | Delete the character at the point |
| C-k | kill-line | Cut the current line |
| C-SP | set-mark-command | Set the mark at the point |
| C-x C-x | exchange-point-and-mark | Exchange the mark and the point |
| C-x h | mark-whole-buffer | Set the point at the beginning and the mark at the end of the buffer |
| C-w | kill-region | Cut the region denoted by the mark and the point |
| ESC w | kill-ring-save | Copy the region denoted by the mark and the point |
| C-y | yank | Paste the previously cut/copied region at the point |
| C-c . | c-set-style | Set the C indentation style to the specified one |
| TAB | c-indent-command | Indent the current line of the C program |
| ESC C-\ | indent-region | Indent the region of the C program denoted by the mark and the point |
| C-x p | indent-all | Indent all lines of the C program (i.e. indent the program perfectly) |

Searching and Replacing

| Key | Function | Description |
|----------------------|------------------|---|
| C-s <i>string</i> | isearch-forward | Search forward for <i>string</i> |
| C-r <i>string</i> | isearch-backward | Search backward for <i>string</i> |
| ESC % <i>old new</i> | query-replace | Replace the <i>old</i> string with the <i>new</i> one y => replace n => skip ! => replace all q => quit |

Reading, Writing, and Exiting

| Key | Function | Description |
|---------------------|-------------------------|--|
| C-x C-f <i>file</i> | find-file | Load the specified file into a buffer |
| C-x C-r <i>file</i> | find-file-read-only | Load the specified file into a buffer for read only |
| C-x C-s | save-buffer | Save the current buffer to its file |
| C-x C-w <i>file</i> | write-file | Write the current buffer to a specified file |
| C-x C-q | vc-toggle-read-only | Toggle the current buffer between read-only and read/write |
| C-x C-c | save-buffers-kill-emacs | Save all buffers and exit xemacs |

Managing Windows and Buffers

| Key | Function | Description |
|-------------------|---------------------------|---|
| C-x 2 | split-window-vertically | Split the current window into two windows arranged vertically |
| C-x o | other-window | Move the point to the other window |
| C-x 3 | split-window-horizontally | Split the current window into two windows arranged horizontally |
| C-x 0 | delete-window | "Undisplay" the current window |
| C-x 1 | delete-other-windows | "Undisplay" all windows except the current one |
| C-x C-b | list-buffers | Display a new window listing all buffers |
| C-x b <i>file</i> | switch-to-buffer | Load <i>file</i> into a buffer if necessary, and then display that buffer in the current window |

Building and Debugging

| Key | Function | Description |
|-----|---------------------------|--|
| | compile <i>command</i> | Build the program using <i>command</i> |
| | gdb <i>executablefile</i> | Launch the GDB debugger to debug <i>executablefile</i> |

Miscellaneous

| Key | Function | Description |
|-------|---------------|--|
| C-x u | undo | Undo the previous change |
| C-_ | undo | Undo the previous change |
| C-g | keyboard-quit | Abort the multi-keystroke command |
| C-h | help-command | Access the Emacs help system |
| ESC ` | tmm-menubar | Access the Emacs menu |
| C-x n | linum | Display/undisplay a line number before each line |