

Accessing files on S: Drive

- ▶ Campus computers connect to it automatically.
- ▶ On personal computers, instructions on IT website

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- ▶ Most programming languages and network protocols use plain text because it is easy for developers to understand.
- ▶ Text editors are just tools for editing plain text files. You'll be using one a lot, so you should know how to use your editor of choice.

Notepad++: notepad-plus-plus.org

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- ▶ Multiple Cursors and Vertical Selection

Atom: atom.io

- ▶ Terminology
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- ▶ **Ctrl** + **↑** + **p** Command palette you can search through
- ▶ Searching for files:
 - ▶ **Ctrl** + **t**, **Ctrl** + **p** Find a file in the current open directories
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- ▶ **autocomplete-clang** C++ Autocompletion
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Tip: `:set mouse=a`

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- ▶ Replace: Overwriting text. `R`
- ▶ Visual: Selecting text.
 - ▶ `v`: Character select
 - ▶ `V`: Line select
 - ▶ `Ctrl` + `v`: Block select

Moving Around

- ▶ `j`/`k`/`h`/`l`: up/down/left/right
- ▶ `^`/`$`: Beginning/end of line
- ▶ `w`/`e`/`b`: Next word/Next word end/Back one word
- ▶ `%`: Matching brace or parenthesis
- ▶ `gg`/`G`: Top/bottom of document

Tip: Repeat commands by specifying a number first: `2w`

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Tip: Compose with insert modes: `c4w`

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- ▶ Clipboards
 - ▶ `y`/`yy`: Copy/'yank' (line)
 - ▶ `d`/`dd`: Cut/'delete' (line)
 - ▶ `p`/`P`: Paste after cursor/Paste before cursor

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 - ▶ `"`+`y`: Yank to system clipboard
- ▶ `>`/`<`: Indent/Outdent
- ▶ `=`: Autoformat

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Configuration

- ▶ `.vimrc` in your home directory
- ▶ Example config on the website

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Plugins

- ▶ Airline: Pretty status bar
- ▶ Fugitive: Git integration
- ▶ Syntastic: Syntax checking

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Links

- ▶ Vim Cheat Sheet
- ▶ Another cheat sheet

Emacs: GNU Emacs

Use `emacs -nw` to launch in the terminal (instead of a GUI)

- ▶ Frame: Everything you can see (you can have multiple frames!)
- ▶ Buffer, Window: As with vim and atom
- ▶ Instead of `Ctrl+n`, emacs writes this as `C-n`
- ▶ Meta key (written `M-x`): Use `Alt+x` or `Esc x`
- ▶ In Emacs: `C-h t` starts a tutorial

Moving

- ▶ `C-n` / `C-p` next/previous line
- ▶ `C-f` / `C-b` forward/back one character
- ▶ `M-f` / `M-b` forward/back one word

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- ▶ `M-f` / `M-b` forward/back one word
- ▶ `C-a` / `C-e` Beginning/end of line
- ▶ `C-v` / `M-v` Down/Up one page

Cut/Paste

- ▶ Deleting: Backspace(``)/ `C-d`
- ▶ Kill (cut) a word: `M-` / `M-d`
- ▶ Kill to the end of a line: `C-k`
- ▶ Unkill (paste): `C-y`
- ▶ `M-y` to cycle through kills

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- ▶ Saving a file: `C-x C-s`
- ▶ Quitting: `C-x C-c`
- ▶ Stop a command: `C-g` or hit `Esc` three times

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- ▶ Windows:
 - ▶ Make 2 windows: `C-x 2`
 - ▶ Jump between windows: `C-x o`

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- ▶ Reference Card
- ▶ Emacs Tour