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./missing-semester - Editors (Vim) - Exercises

21 oct 2020

Course located at: missing.csail.mit.edu

Exercises

- ❖ Complete vimtutor. Note: it looks best in a 80x24 (80 columns by 24 lines) terminal window.
- ❖ Download our basic vimrc and save it to ~/.vimrc. Read through the well-commented file (using vim!), and observe how vim looks and behaves slightly differently with the new config.
- ❖ Install and configure a plugin: ctrlp.vim.
 - ❖ Create the plugins directory with `mkdir -p ~/.vim/pack/vendor/start`
 - ❖ Download the plugin: `cd ~/.vim/pack/vendor/start; git clone https://github.com/ctrlpvim/ctrlp.vim`
 - ❖ Read the documentation for the plugin. Try using CtrlP to locate a file by navigating to a project directory, opening vim, and using the vim command-line to start `:CtrlP`.
 - ❖ Customize CtrlP by adding configuration to your ~/.vimrc to open CtrlP by pressing Ctrl-P.
- ❖ To practice using vim, re-do the Demo from lecture on your own machine.

```
import sys
```

不会用, 消化不了

```
def fizz_buzz(limit):  
    for i in range(1, limit+1):  
        if i % 3 == 0:  
            print('fizz', end='')
```

```

if i % 5 == 0:
    print('buzz', end='')
if i % 3 and i % 5:
    print(i)

def main()
    fizz_buzz(int(sys.argv[1]))

if __name__ == '__main__':
    main()

```

- ❖ Use Vim for all your text editing for the next month. Whenever something seems inefficient, or when you think “there must be a better way”, try Googling it, there probably is. If you get stuck, come to office hours or send us an email.
- ❖ I’ve been using Vim as my primary editor for the last couple months, and have improved noticeably.
- ❖ Configure your other tools to use Vim bindings (see instructions above).
- ❖ I used `set -o vi` to put my terminal in vi mode.
- ❖ I also downloaded Vimium.
- ❖ Further customize your `~/.vimrc` and install more plugins.
- ❖ (Advanced) Convert XML to JSON (example file) using Vim macros. Try to do this on your own, but you can look at the macros section above if you get stuck.

```

$ wget https://missing.csail.mit.edu/2020/files/example-data.xml
$ cp example-data.xml example-data.json
$ vim example-data.json

```

```

:s/<people>/{\r\t"people": {/g
j
:s/<person>/\t\t"person": [\r\t\t\t{/g
:%s/  <person>/\t\t\t{
:%s/    <name>\(.*\)<\</name>/\t\t\t\t\t"name": "\1"/g
:%s/    <email>\(.*\)<\</email>/\t\t\t\t\t"email": "\1"/g
:%s/  <\</person>/\t\t\t},
Gddlxo<Tab><Tab>]<Enter><Tab><Enter>

```

Zach Heller - 2021