# **J233**Coding for Journalists

Soo Oh

#### **PROMPTS**

- 1. Download the **preliminary slides** from the class website because we'll be copy/pasting a lot of commands.
- 2. Open up the **Terminal** app on your computer. Type in the following command and hit Enter:

#### xcode-select --install

If the response is that it's already installed, you don't have to do anything else!

Otherwise, a window should pop up; hit **Install**.

### start Zoom recording

#### Agenda

#### Announcements

Final Project presentation and project rubrics are up on bCourses.

Let's go get our food?

Install party + Food!

Study Hall

xcode

brew

.zshrc

pyenv

pyenv-virtualenv

git + GitHub

Test it all out

We'll install and configure your computer to run Jupyter notebooks

This installation guide is loosely based on work by Melissa Lewis, data reporter at Reveal.

- Restart your computer
- Close all applications

xcode

brew

.zshrc

pyenv

pyenv-virtualenv

git + GitHub

Test it all out



% xcode-select --install

You don't copy/paste the % sign

This was the prompt at the start of class

xcode

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pyenv-virtualenv

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Test it all out

#### **✓** Install <u>Homebrew</u>:

```
% /bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/in
stall.sh)"
```

The above code is current as of November 2022.

#### Run an update after installation:

% brew update

xcode

brew

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pyenv-virtualenv

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Test it all out

```
Create your zsh configuration file:
```

```
% cd
% touch .zshrc
```

#### Create aliases for cp, mv, and rm:

```
% echo 'alias rm="rm -i"' >> ~/.zshrc
% echo 'alias cp="cp -i"' >> ~/.zshrc
% echo 'alias mv="mv -i"' >> ~/.zshrc
```

#### Restart Terminal app

xcode

brew

.zshrc

#### pyenv

pyenv-virtualenv

git + GitHub

Test it all out

#### ✓ Install pyenv (<u>full instructions</u>)

```
% brew install pyenv
% echo 'export PYENV_ROOT="$HOME/.pyenv"' >> ~/.zshrc
% echo '[[ -d $PYENV_ROOT/bin ]] && export
PATH="$PYENV_ROOT/bin:$PATH"' >> ~/.zshrc
% echo 'eval "$(pyenv init -)"' >> ~/.zshrc
```

The above code is current as of November 2023.



xcode

brew

.zshrc

pyenv

pyenv-virtualenv

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Test it all out

```
✓ Install pyenv-virtualenv (<u>full</u> instructions)
```

```
% brew install pyenv-virtualenv
% echo 'eval "$(pyenv virtualenv-init -)"' >> ~/.zshrc
```

The above code is current as of November 2023.

- Restart Terminal app
- ✓ Install Python 3.9.18
- % pyenv install 3.9.18

xcode

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Test it all out

#### **Configure git + GitHub:**

- Follow GitHub documentation for generating a new SSH key (let's review in entirety before you begin)
- Add SSH key to your GitHub account (let's review in entirety before you begin)
- Change git default branch
- % git config --global init.defaultBranch main

xcode

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git + GitHub

Test it all out

#### Let's test everything out

Create a new directory for all your coding projects and cd into it.

```
% mkdir coding
% cd coding
```

- ✓ Clone the following repo:
- % git clone git@github.com:journ233/mapping.git
  - cd into the newly created folder
- % cd mapping

xcode

brew

git + GitHub

.zshrc

pyenv

pyenv-virtualenv

Test it all out

#### Let's test everything out

- Create a 3.9.18 virtual environment called mapping
- % pyenv virtualenv 3.9.18 mapping
  - Activate your virtual environment
- % pyenv activate mapping
  - ✓ Install requirements
- % pip install --upgrade pip
- % pip install -r requirements-3.9.18.txt

xcode

brew

git + GitHub

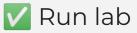
.zshrc

pyenv

pyenv-virtualenv

Test it all out

#### Let's test everything out



% jupyter lab

## No Homework

https://journ233.github.io

please help clean up: close windows, return tables, etc.