

J233

Coding for Journalists

LECTURER
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

Install party

Install party

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

Install party

xcode

brew

.zshrc

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pyenv-virtualenv

git + GitHub

Test it all out



Install xcode-select:

```
% xcode-select --install
```

You don't copy/paste the % sign

This was the prompt at the start of class

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Test it all out



Install Homebrew:

```
% /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
```

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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

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Install pyenv ([full instructions](#))

```
% 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.



Restart Terminal app

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Test it all out

✓ Install pyenv-virtualenv ([full 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
```

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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
```

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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
```

Install party

xcode

brew

git + GitHub

.zshrc

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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
```

Install party

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Test it all out

Let's test everything out

 Run lab

```
% jupyter lab
```

No Homework

<https://journ233.github.io>

**Please help
clean up:** close
windows,
return tables,
etc.