

# Django Workshop

**Instructor** Shiro

**Duration** 2 hours

## Intro

Django is a powerful web app framework that has been used by many companies around the world like Instagram, YouTube, Dropbox, Spotify, Disqus... etc. If you're interested in fullstack development, Django is a good place to start. It's one of the best server side backend tools used by backend developers. As a whole framework it supports backend development and basic web app frontend development.

## Prerequisites

(If you have all of this great, if you don't it is still ok but have a partner so you can follow up)

- Basic knowledge in HTML/CSS/JS
- Basic Knowledge in Python
- Basic Knowledge in Git (depends if we will use it in the project -- make sure you have a Github account )
- Basic commands Bash commands (we are using the terminal/cmd :) )

## Installation Requirements

A text editor (Sublime, Atom, VScode... etc) whatever you're comfortable with as long as you can install syntax packages to help you while coding **Do not use notepad :))))**

Please make sure the following are installed:

- Homebrew for MacOS / Chocolatey for Windows
- Python 3 (Mac don't need that unless they need to update the version)
- Git Bash (no need for Mac cause it comes with it)
- Pip3
- Virtualenv

## Syllabus

- What is Django?
- How to use Git?
- What is a Virtualenv?
- What is an MVC/MTV? + Project Architecture
- What are Apps?
- Create a Basic Blog Web App
  - Model

- View
  - Template
  - Form
- Using Bootstrap/Css for styling
- Deployment (Not confirmed - depends on the time limit)

# For MacOS

## Installing Homebrew

1. Go to <https://brew.sh/>
2. Copy the command down in the page. It should look like this (  

```
"$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/master/install)"
```
3. )

## Installing Python 3 and Pip

```
brew install python3
```

Pip should be installed if you have Python3 (otherwise just make sure to update the version)

Check python version using `python --version` or `python3 --version`

Check for pip version `pip --version` or `pip3 --version`

## MacOS comes with Git Installed

You do not need to install git move on :)

## Install virtualenv

```
pip install virtualenv
```

# For Windows OS

(Make sure you are running as an admin when you open the cmd, also sometimes you might need to restart your cmd after every installation to take affect)

## Installing Chocolatey

1. Go to <https://chocolatey.org/install>
2. Copy the command down in the page. It should look like this  
(@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoPr....)
3. Run the command line as an Administrator and run the line

## Installing Python3

1. Run the command line as an Administrator
2. Type in the following  
`choco install python`

## Installing Git bash

1. Go to <https://git-scm.com/download/win>
2. Download the Git windows setup (64-bit)
3. Install the application
  - When it Prompts you to adjust your PATH environment you should pick the 3rd option Use Git and optional Unix tools from the Windows Command Prompt
  - You can choose the default options the installer already picked for you for other things