## **Virtual Environments**

We will be using something called virtualenv.

#### What is it?

It is possible to be working on various projects that uses different versions of Python (e.g. Python 2.6, 2.7, 3.6, 3.7, etc). This is a way to create an isolated environment (like a sandbox) with the version of Python you are using and all the project's associated libraries. This means whenever you want to download and install a Python library specific to that project, it will not affect your computer system or other virtual environments. It's all self contained.

Best thing about it, if the virtual environment has a library or libraries that are broken, you can delete that virtual environment and create another one for that project.

### How to create a virtual environment?

- 1. Open your terminal.
- 2. Make sure your have Python 3 installed. You can type the following into your command line, and you should see the version of Python running when the Python interpreter loads (you will see >>>):-
  - \$ python3
- 3. Type exit(), and hit ← (Enter/Return key)
- 4. You are back to command line prompt in your terminal.
- 5. Navigate to your project folder using **cd** command.
- 6. Once in your project folder, type the following:

Windows:

C:\Users\Name\djangogirls> python -m venv myvenv

#### OSX:

\$ python3 -m venv myvenv

### Working with virtualenv

Now we have created our virtual environment, we need to activate it.

Windows:

C:\Users\Name\djangogirls> myvenv\Scripts\activate

OSX:

\$ source myvenv/bin/activate

Once activated, you will see something like the following: (myvenv) \$

Please note (myvenv) prefixed, this means you are in the virtual environment and you are ready to install the libraries to use with your project.

### How do I get out of virtual environment?

To get out of virtual environment, type the following and hit ← (Enter/Return key):

(myvenv) \$ deactivate

You should be back to

\$

# Resources

- Official virtualenv docs: <a href="https://virtualenv.pypa.io/">https://virtualenv.pypa.io/</a>
- Setting up virtualenv via Django Girls Tutorial: https://tutorial.djangogirls.org/en/installation/

# **Questions?**

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