Pre-class Installation Requirements for Intro to Python and Webscraping

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- 1 Introduction
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Virtualenv allow you to create environments.

```
## run this on the command line
## assuming you are in your projects folder, create a new folder

mkdir projects1

cd projects1

## now create your virtualenv environment
## this will create a folder called "env".

## this will house a local version of python.

virtualenv env

## IMPORTANT.
## Now you need to activate your environment.

source env/bin/activate

## now you will be using a local version of python instead of your
## system's python
```

```
23 ## to deactivate, simply type25 deactivate
```

Now once virtualenv is installed, you can start installing modules locally.

The program to do this is called pip. New versions of python may come with it already installed, but older version may require manual installation.

```
## again, these should be run on the command line.
   ## first, let's activate your virtual environment, if you haven't
   ## already
   source env/bin/activate
7
   ## first, let's inspect what command are available in pip
9
   pip help
11
   ## from this, we see that there are a number of commands we will
13
  ## find useful
15 pip list # this shows what programs are already installed
17 pip search numpy # this searches for packages named "numpy"
19 pip install numpy # this installs the numpy package.
   ## if you have many packages you want to install, you can
21
   ## create a requirements list
23
   ## this will create a file with a list of modules to install
25 ## you can use your editor of choice to install this.
27 echo "numpy\nbeautifulsoup" > requirements.txt
29 ## this will install all the packages in the text file.
   ## NOTE: you can specify the versions of module too. Sometimes
31 ## this is important.
33 pip install -r requirements.txt
35 ## now let's confirm that they installed correctly
37 pip list
39 ## now if you are done with virtualenv remember to deactivate it
41 deactivate
```

5 Testing Diagrams