WWC 2/15/2017

(Virtual environment – container for your python – you can install packages, mess with your python, but doesn’t mess up your machine, can still run regular python) - pip

* Using errors to fix your code
  + Errors do not pass silently
  + When something goes wrong, python will stop and tell you
  + Python interpreter
  + Trace back
    - Interpreter goes through files to tell you where the problem is
  + I = 5
    - Syntax error
    - No ; at the end of the line
    - Also didn’t define i
* If this, then that
* If this:
  + Then that
  + Then that
  + If this2:
    - Then that2
* \*\*\*\*spacing matters. Has to be indented inside\*\*\*\*\*
* But it only gives you the last error, reading from top down. Only gives you one error at a time
* How else to de bug?
  + Read from the bottom up
    - Would you to move?
    - (Like to move)
    - We read over stuff in our brains
  + Read lines back to front
  + Look at code backwards in a mirror
* Can’t trust traceback to be the only way to see if your code is okay
* Errors
  + Attribute error
    - Wrong method/function on wrong object
    - Peel a raspberry
  + Syntax error
  + Type error
    - Operator on wrong type of object
    - String: can’t divide by 2
    - Object expected to have value, doesn’t
  + Indentation error
  + Name error
  + IO error
    - Try to open file that doesn’t exist
  + Key error
    - Look up key that doesn’t exist
* Every error is an exception, not every exception is an error
* “””
* in between these lines are the documentation
* “””
* \_\_class\_\_ = means what type of thing is this?