- Docstrings a Unit Testing -HW5 is posted, due next thursday 5 comments a documentation are required

Documentation
As we code larger projects, good documentation becomes absolutely essential.
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essental.
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Have you used help(-) yet?
Gives description of the behavior of functions, objects, etc.
Functions objects etc.
_
This is different than comments (which are also essential) - comments are for coder, help is for user.
are also essential - comments
are for color help is for user

Python supports adding such documentation to anyl class. (Note: This will be required on any hw.) Standard: - describe major purpose

- For functions, describe inputs
and return values. Syntax: "Into here """

three quotes

Example: Point class
add doctorings

Unit Testing So far, to test our code we save it a reload Python for each test. Repetitue! Have to reinitalize Faster: Write a script which loads your code a run it. (or put it at bottom of py rile)

Unt testing: another way
When running Python, the script
which is started with the Pyth
command is called __ main! python test Point. Py (not My Point, py) resus 200 -i Point.py VS. yping code

Using this fact: Example: File xxx.py Class XXX: # code for class f __name_ == "__main__": # fest code This test only runs when we type (not twhen module is imported)

thon supports over 70 automated or senti-automated testing tools. Oldest + most popular: Py Unit - part of standard Python library - write test separately (+ usually before coding the rest)

eony of Unit testing Unit testing is part of top-down design.
Those is to care fully specify requirements of behavior expected. en run tests often - at completion or change of any included module, at lebst.

Pros a Cons

Opponents of unit testing say it takes too much time and cost too much to set up a enforce.

Supportess say they can save much more by detecting errors early in the process.

How to use unittest (PyUnt)

Import it: import unittest

Unit teste themselves consist of functions the programmer writes to test the lodg.

Eq:

if __name__= "__main__": unittestomain() Example: a stack A simple data structure w/3 functions. - Pop() Push(c) (If empty, None 15 returned) Let's code this, or then test it.