SYSTEMS PROGRAMMING IN PYTHON - WEEK 2

TESTING 1 OF 2
DOCTEST & UNITTEST

ANNOUNCEMENTS

LECTURE A (25)

testing

lots

http://en.wikipedia.org/wiki/ Software_testing

ignoring most of it today

module class function

lots of tools, even at this level

doctest
unittest
pytest
nose

demo time

Test Driven Development?

how much testing should we do?

here's a starting point

- TDD if you can
- at least test the happy path
- add new tests before fixing each bug
 - prove that you understand the cause
 - make sure it never comes back

where to go from here

mocks

web testing

Python Testing Tools Taxonomy

http://pycheesecake.org/wiki/ PythonTestingToolsTaxonomy

great intros:

http://www.doughellmann.com/PyMOTW/doctest/
http://www.doughellmann.com/PyMOTW/unittest/

tools

LAB

Lab (optional)

Test Driven Development practice

Spend some time with the

Python Koans (~20-40 minutes):

http://python-koans.appspot.com/