

MODULES ARE THE BASIC UNIT OF ENCAPSULATION IN PYTHON!

import this → namespaces

Create an smath.py module ("serious math for serious people")
with some public functions and constants

↑
docstring!

Go over importing the module and
various forms of import syntax

→ Public and private module attributes / functions

→ underscores and
--all--

→ Run dir() on the module → look at '__name__'

→ Talk about modules being run once, add a print
statement, discuss use of name.

↳ Discuss if '__name__' == '__main__' trick:

→ Where are modules located? → current dir
→ installed dir
→ PYTHONPATH

↳ Note that a module doesn't have to be a
file, can be from DB, stdin, etc... beyond the
scope of this course!

STYLE! Avoid possibility of uncaught exceptions on import.

NOW TO TOUR THE STANDARD LIBRARY!

↳ go to reference page, discuss

datetime → Go over datetime, timedelta objects
utctnow(), timezone awareness, printing and
reading formats.

pprint → show off with a dict containing a list

math → "from math import *" ← interactive calculator

random → seeding, usage, warn about crypto!

os → do some file / directory operations

sys → look at argv, exit(), sys modules, path,
platform, version