Introduction to Python More OO – Decorators and Generators

Christopher Barker

UW Continuing Education / Isilon

August 08, 2012



Table of Contents

Review/Questions

2 More OO

Review of Previous Class

- Really Quick OO overview
- Built an html generator, using:
 - A base class with a couple methods
 - Subclasses overriding class attributes
 - Subclasses overriding a method
 - Subclasses overriding the __init__

Homework review

Homework notes

multiple inheritance

Multiple inheritance:
Pulling from more than one class

```
class Combined(Super1, Super2, Super3):
    def __init__(self, something, something else):
        Super1.__init__(self, .....)
        Super2.__init__(self, .....)
        Super3.__init__(self, .....)
(calls to the super class __init__ are optional - case dependent)
Attribute resolution – left to right
( Why would you want to do this? )
```

mix-ins

Hierarchies are not always simple

- Animal
 - Mammal
 - GiveBirth()
 - Bird
 - LayEggs()

Where do you put a Platypus or an Armadillo?

Real World Example: FloatCanvas



properties

Simple attributes: