CS 142 Inheritance & Polymorphism



Announcements

- Reminder
 - Program 2 has been assigned, due 2/10

/2/2015 CS 142: Object-Oriented Programming Spring 2015

Overriding Methods

petsList = [Dog("Spot"), Cat("Kitty"), Cat("Abbey"), Dog("Khan"), Pet("Tweety")]
for pet in petsList:
 print(pet.getName(), "says", end=' ')
 pet.makeSound()

Output:

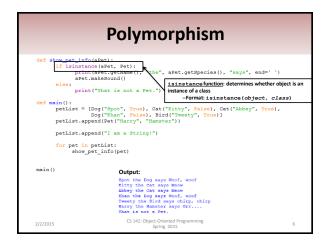
Spot says Woof, woof! Kitty says Meow Abbey says Meow Khan says Woof, woof! Tweety says Grr...

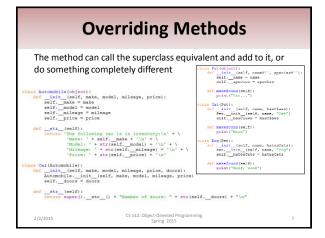
> /2/2015 CS 142: Object-Oriented Programming Spring 2015

Polymorphism

- Definition: An object's ability to take many forms.
- Polymorphic behavior:
 - Ability to define a method in a superclass and override it in a subclass
 - Subclass defines method with the same name
 - Ability to call the correct version of overridden method depending on the type of object that called for it

2/2/2015 CS 142: Object-Oriented Programming Spring 2015





In-Class Activity Work with a partner Hand in 1 copy for each group Counts as a quiz Hand in at beginning of next class if you don't finish it today.