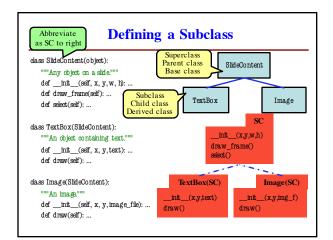
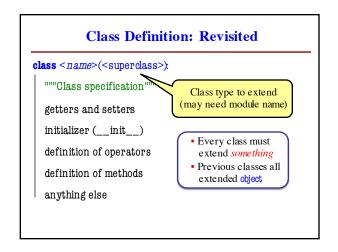
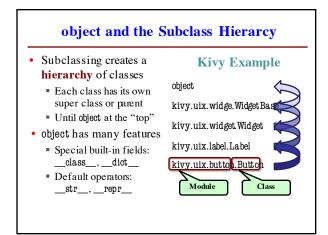
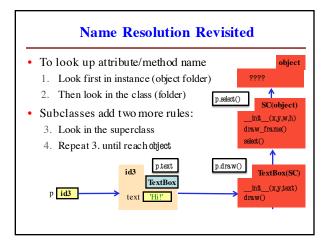
Announcements for Today Reading **Assignments** Today: Chapter 18 A4 graded by end of week Survey is still open Online reading for Thursday A5 was posted Friday Prelim, Nov 12th 7:30-9:00 Shorter written assignment Material up to Thursday ■ Due Thursday at Midnight Review posted on Thursday Recursion + Loops + Classes A6 also posted Friday S/U Students are exempt Due a week after prelim **Conflict with Prelim time?** Designed to take two weeks Prelim 2 Conflict on CMS Finish first part before exam Submit by Thursday

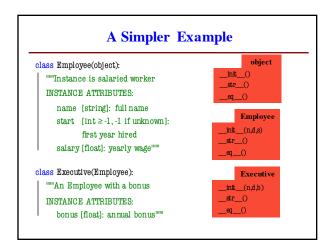
An Application Goal: Presentation program (e.g. PowerPoint) Problem: There are many types of content Examples: text box, rectangle, image, etc. Have to write code to display each one Solution: Use object oriented features Define class for every type of content Make sure each has a draw method: for x in slide[i].contents x.draw(window)

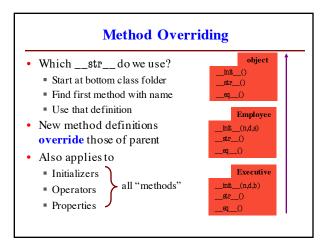












```
Accessing the "Previous" Method
                                      class Employee(object):
  What if you want to use the
                                          """An Employee with a salary"""
  original version method?
    ■ New method = original+more
                                         def str (self):

    Do not want to repeat code

                                           return (self.name +
      from the original version
                                                  ',year ' + str(self.start) +
                                                  ', salary '+ str(self.salary))
· Call old method explicitly

    Use method as a function

                                      class Executive(Employee):

    Pass object as first argument

                                          ""An Employee with a bo nus."""
• Example:
                                         def str (self):
    Employee.__str__(self)
                                           return (Employee.__str__(self)
• Cannot do with properties
                                                  +', bonus' + str(self.bonus))
```

