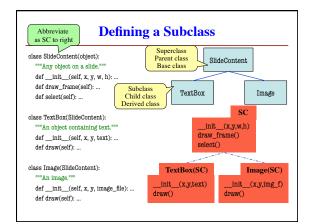
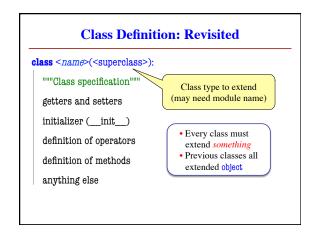
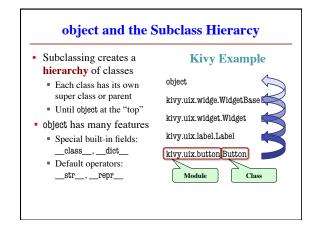
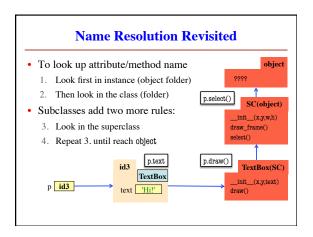
Announcements for Today Reading **Assignments** · Today: Chapter 18 A4 graded by end of week · Online reading for Thursday ■ Survey is still open A5 was posted Friday Prelim, Nov 13th 7:30-9:00 · Shorter written assignment Material up to Thursday ■ Due Thursday at Midnight Review posted on Thursday Recursion + Loops + Classes A6 was posted yesterday 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

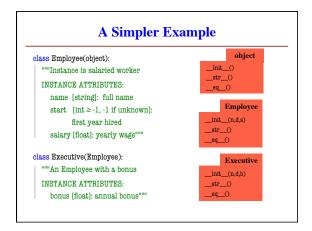
An Application • Goal: Presentation program (e.g. PowerPoint) • Problem: There are many types of content • Examples: text box, rectangle, image, etc. • Have to write code to display each one • Solution: Use object oriented features • Define class for every type of content • Make sure each has a draw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

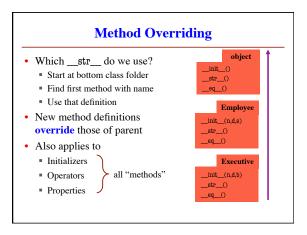












```
Accessing the "Previous" Method
                                        class Employee(object):
· What if you want to use the
                                          """An Employee with a salary"""
   original version method?
    ■ New method = original+more
                                          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 bonus."""
• Example:
                                          def str (self):
    Employee.__str__(self)
                                            return (Employee.__str_ (self)
· Cannot do with properties
                                                  + ', bonus ' + str(self.bonus) )
```

