| Note Tit | SISO - Inheritance                | 3/20/2012 |
|----------|-----------------------------------|-----------|
|          |                                   |           |
|          | Announcements                     |           |
|          |                                   |           |
|          |                                   |           |
|          | - HW due Friday<br>(do not sport) |           |
|          | - HW due triday,                  |           |
|          | (do not sort)                     |           |
|          |                                   |           |
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|          |                                   |           |
|          | - Midterm 2 after Faster break    |           |
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Inheritance (Ch.9) A way to build a new class on top of an already existing one. he child class can use all of the parent's data. fact, in general, the child class will reuse many of the parent's functions, & will only augment or override when necessary. Goal: Avoid duplicate code.
(Be 1924.)

3-D point class built on top of our original point class.
Methods to "steal", setx Methods to code: set 2 Methods to augment or override: \_str\_ normalize

Another example: Sorted Set Goal: Maintain a set of elements (Note: in a set, no duplicates.) What Python data structure will be useful?

Making Choices ste that we could make a class which uses a list, so self. setlist = [] (in constructor) : if we inherêt from list, ve don't need a constructor

List functions for sorted set Some are already good: Examples: - constructor Some need to be overridden. xample: -append -reverse -insert

Practice Problem 90