

Advanced Inheritance



Chapter 6 – Section 1



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Inheritance 1

- ☉ Inheritance is a relationship between classes
- ☉ It is a static relationship
- ☉ Inheritance is the "is a" / "kind of" relationship



Inheritance 2

☉ Naming 1

- ☉ Parent class / Superclass
- ☉ Child class / Subclass

☉ Naming 2

- ☉ Specialization / Refinement
- ☉ Generalization / Abstraction



Inheritance 3

☉ Keywords

- ☉ extends

- ☉ super

☉ The three roots of inheritance

- ☉ Extending

- ☉ Overriding

- ☉ Overloading



Inheritance 4

☉ Interest of inheritance

- ☉ Natural organization of classes
- ☉ Programming by extension
- ☉ Increasing modularity
- ☉ Reuse