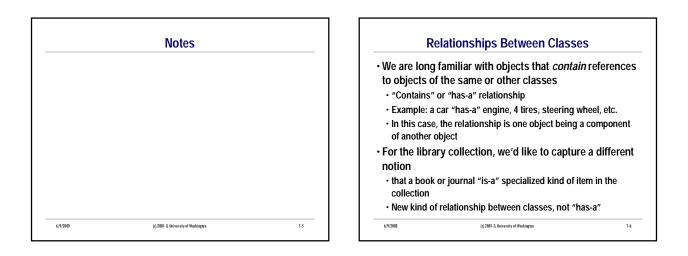
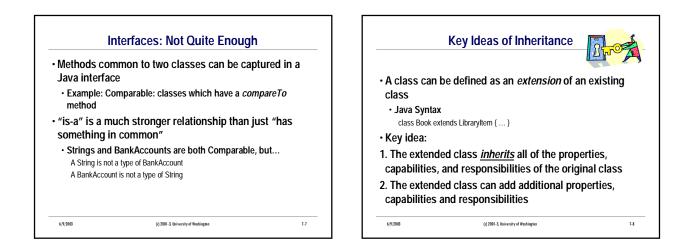


	Critique
What do th How do the	ese classes (objects) have in common? ey differ?
	capture the common parts of the design? escribe/define these once, not repeatedly in every
How do we parts of the	relate the specific classes to the common elesion?





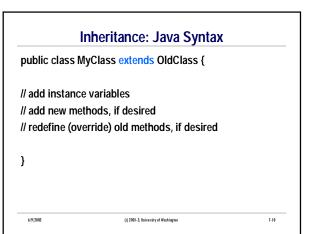


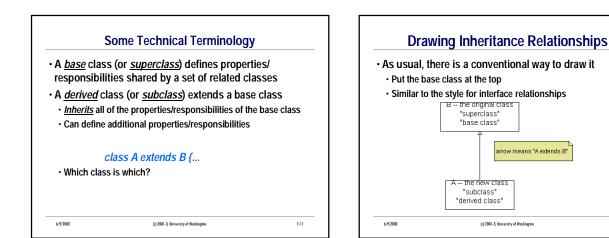
Objects in the extended class have *all* of the state and methods of the original class

- Allows us to factor properties/responsibilities common to several classes into a single class that can be extended
- Extended classes can define additional properties and responsibilities that are appropriate for it
- Extended classes can also redefine behavior which was already defined in the original class

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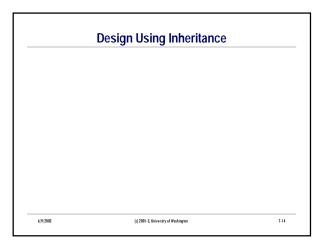


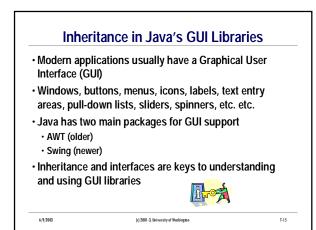


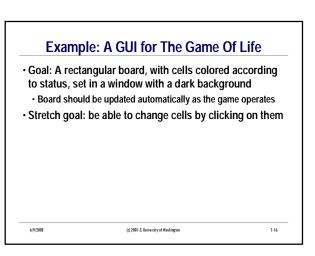
T-9

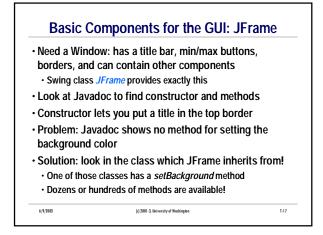
T-12

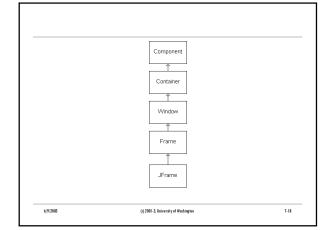




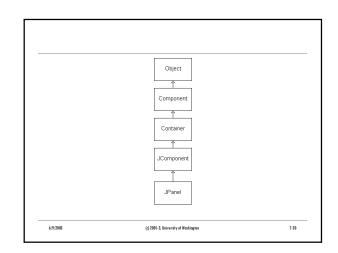


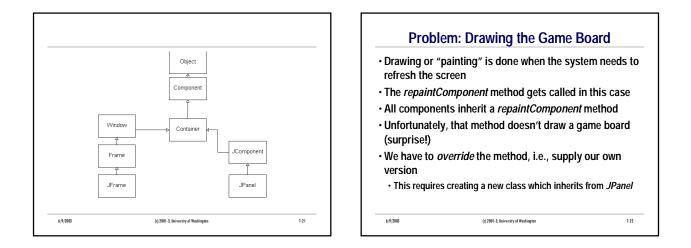


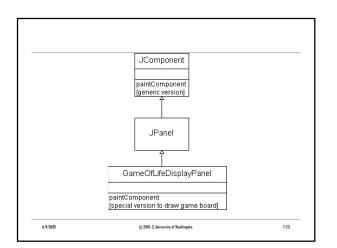


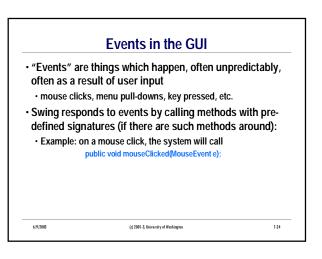


## Basic Components for the GUI: JPanel She game board should be drawn on a subcomponent of the frame Will not have its own title bar, etc. Will consist of a number of lines and/or rectangles Swing component JPanel is suitable A borderless area which can hold other components, or can be drawn on directly Iherits many methods from the classes above it











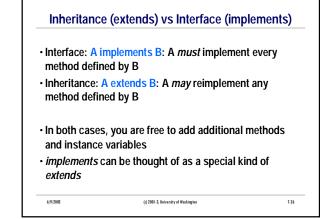
Two objects are involved in event processing
 One object "generates" the event
 Another object "handles" the event

- It is allowable for one object to play both roles
- If you want your object to "handle" an event, you
- implement the appropriate method
- the methods are defined in interfaces
- Thus, interfaces are heavily used in GUI programming
   There are dozens of defined interfaces
- Example: mouseClick is one of several event methods
- defined in the MouseListener interface public class MyObject implements MouseListener {...

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T-25



	Summary	
Inheritance is programming	a key concept of object-orier	nted
Inheritance mo	odels the "is-a" relationship	
<ul> <li>Java keyword:</li> </ul>	extends	
<ul> <li>Inheritance is design</li> </ul>	heavily used in system mode	eling and
• E.g., library co	llection	
<ul> <li>Inheritance is I</li> <li>E.g. GUI librari</li> </ul>	heavily used in standard libr	ary design
• Want to learn n	nore? Stick around and take C	SE143!