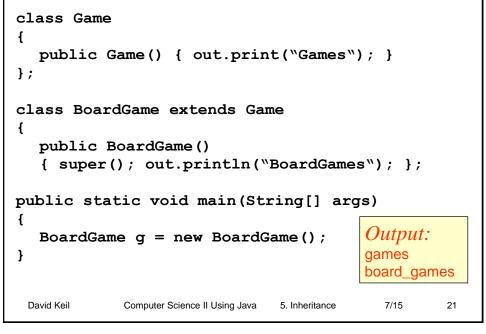
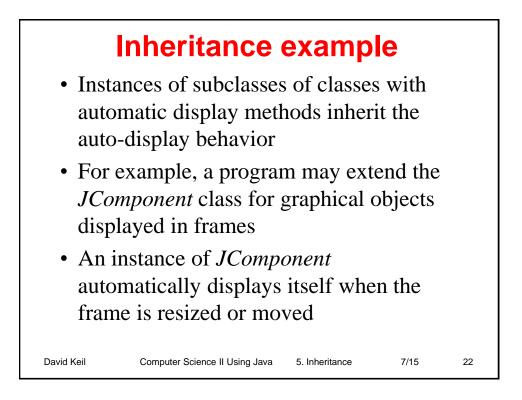
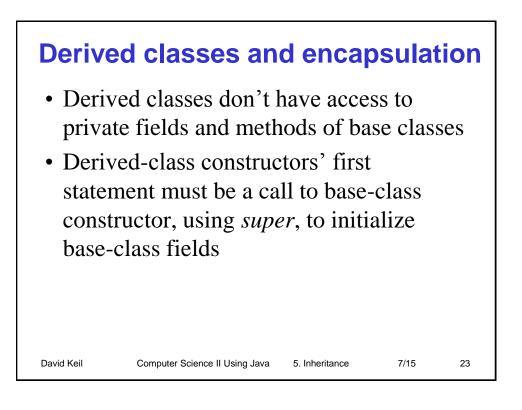
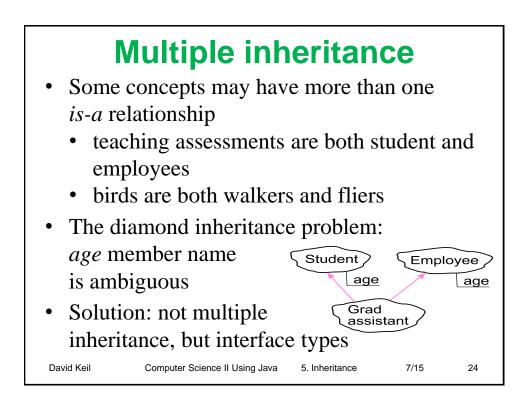


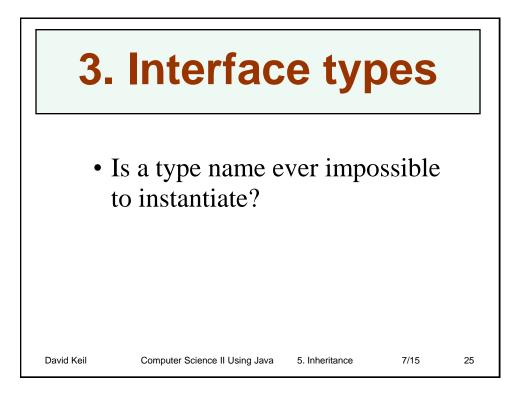
## **Base-class constructor runs first**

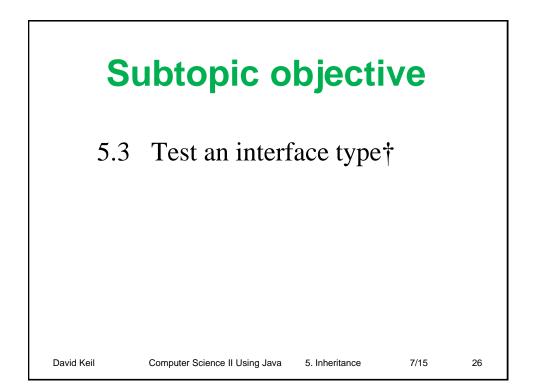


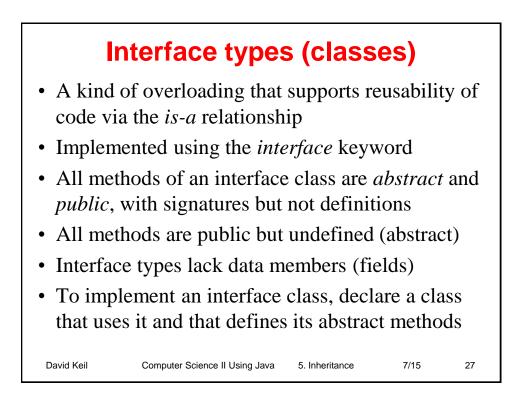




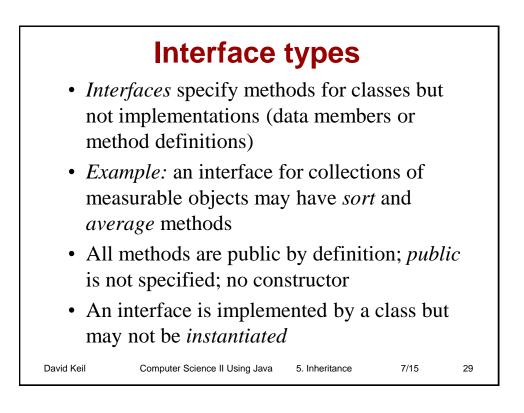


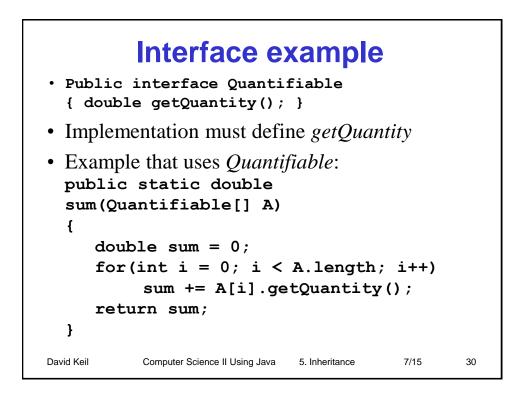


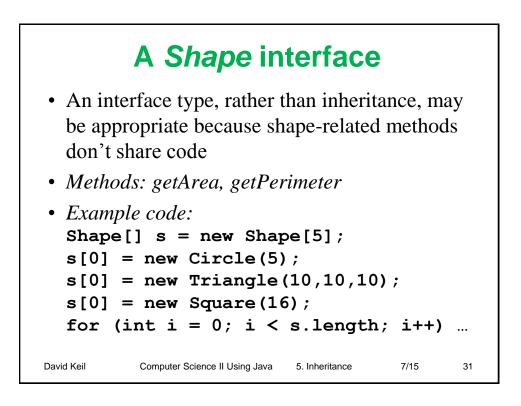


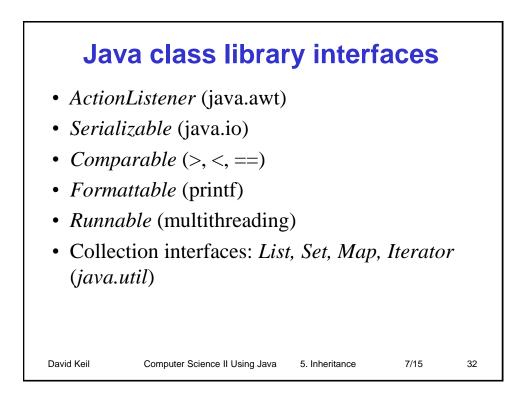


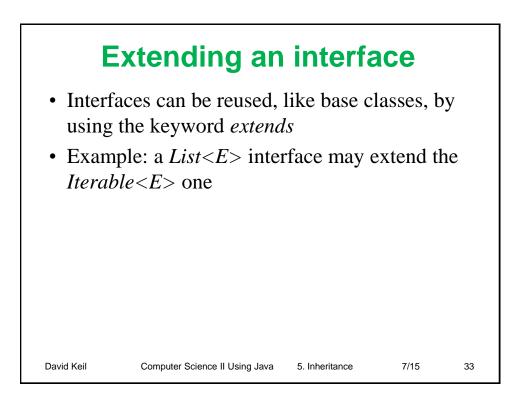
```
Interface-class example
public interface Comparable
  boolean is greater than(Comparable x);
public Batter implements Comparable
  private double batAvg;
  public boolean is greater than (Batter x)
    return (bat avg > x.get bat avg());
  }
}
• This shows how the Comparable interface
  expresses the commonality among classes like
  Batter, Integer, String, etc. – all can be compared
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```

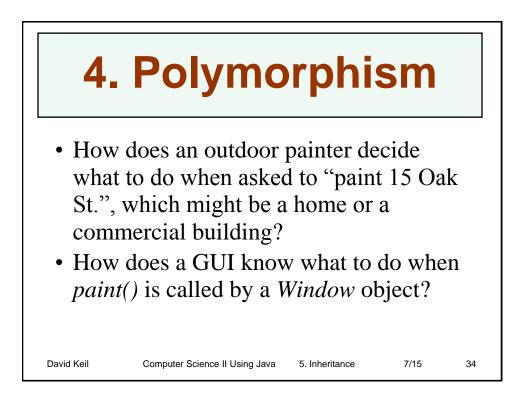


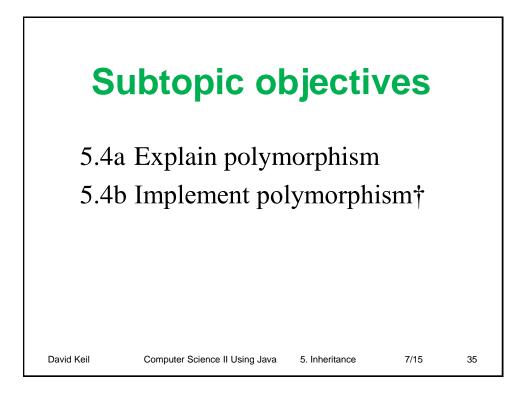


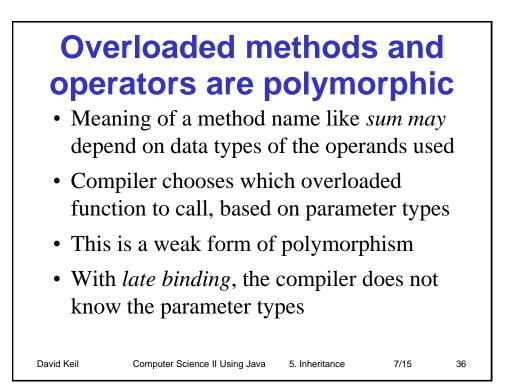


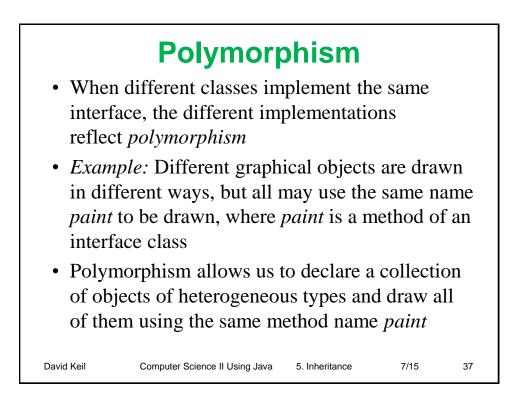


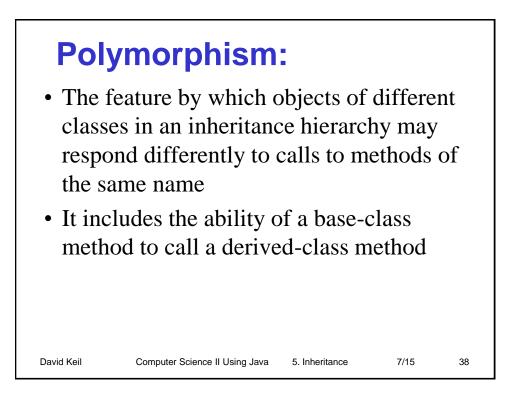


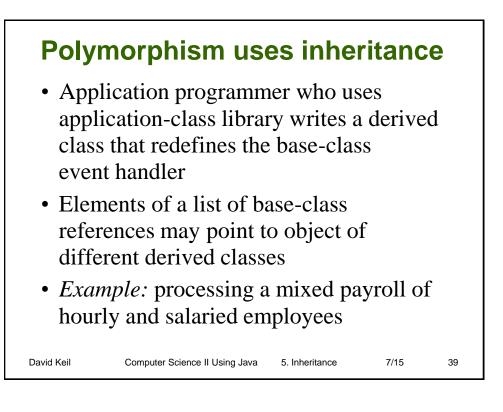


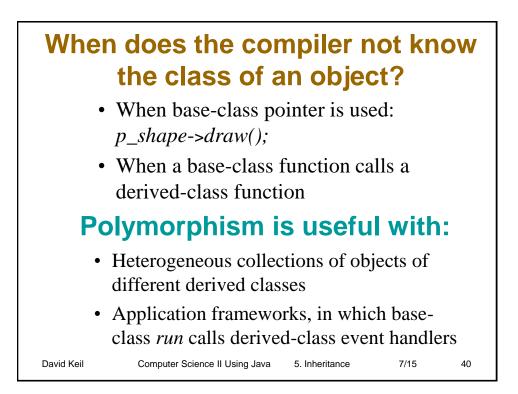




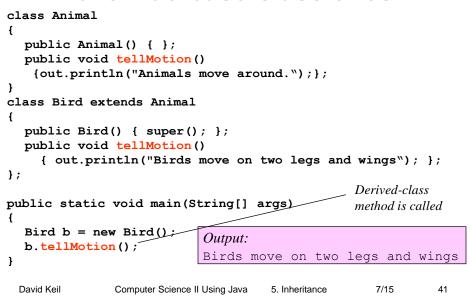


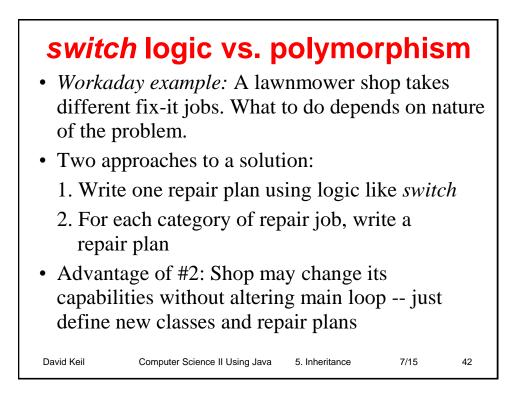


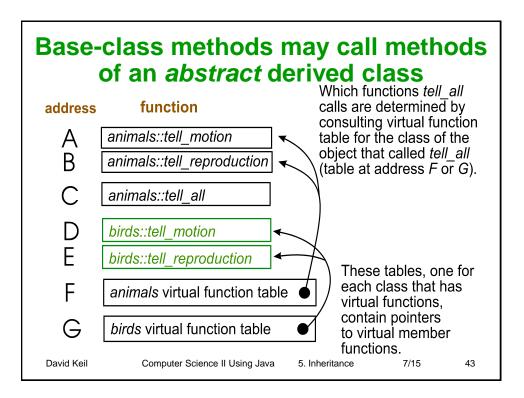


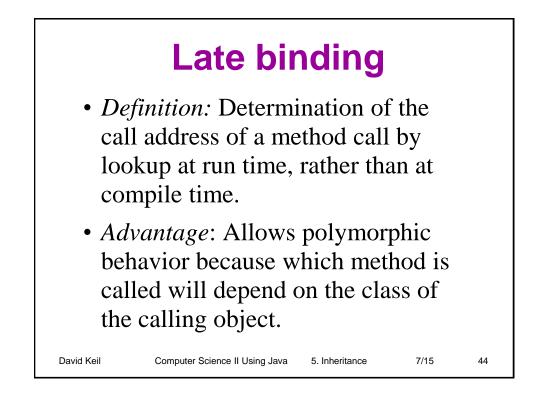


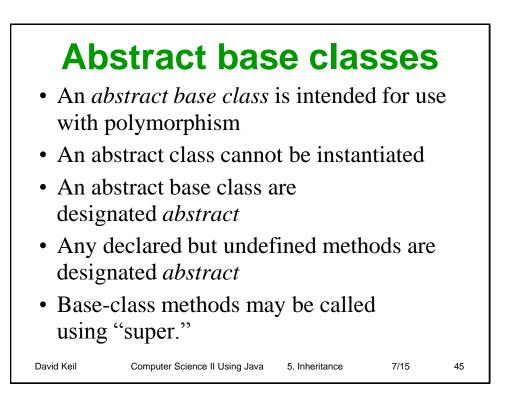
## Derived-class methods may override base-class ones











## A mixed collection of shapes

```
class Shape
Ł
     private extent;
     public void draw()
                              { }
}
class Line extends Shape
{ ... }
class Square extends Shape
{ ... }
[main:]
Shape[] A = {new Line(), new Square()};
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```

