Today’s topic...

- Last time we looked at interfaces.
- Today we'll look at more examples.
The book used an example of Shape, we’ll take a look at Polygons.

```java
public interface Polygon extends Comparable<Polygon> {
    /**
     * Returns the number of sides of the polygon.
     * @return The number of sides of the polygon.
     */
    public int numberOfSides();

    /**
     * Returns the perimeter of the polygon.
     * @return The perimeter of the polygon.
     */
    public float perimeter();

    /**
     * Calculates the area of the polygon.
     * @return The area of the polygon.
     */
    public float area();
}
```

Extends Comparable?

- Comparable interface:
  - This is a delivered Interface in the Java library:

  [http://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html](http://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html)
Polygons – UML Class Diagram

- Triangle
  - float sideA
  - float sideB
  - float sideC

- Quadrilateral
  - int numberOfSides
  - float perimeter
  - float area

- Rectangle
  - float lengthA
  - float lengthB

- Square
  - float length

- Trapezoid
  - float baseA
  - float baseB
  - float height