

Data

Type	Description	Syntax
Strings	Words	" ", Strings
Numbers	Numbers	int, double
Boolean	true or false	boolean, true, false
All of the Syntax column is case sensitive		
Information is data with context		

Useful methods and operations

Method	Description
throw new IllegalArgumentException (String);	used to show an error
Integer.toString(i) and Double.toString(i)	takes an int or a double and makes them strings
"String".equals("String")	checks if two strings are equal

Abstracts and Subclass (cont)

```
> class Rect extends AShape {
    int width;
    int height;

    Rect(int width, int height, String color) {
        super(color);
        this.width = width;
        this.height = height;
    }
}

// Subclass square that extends Rectangle
class Square extends Rect {

    Square(int size, String color) {
        super(size, size, color);
    }
}
```

Example Template

```
/*
 * Fields:
 * this.x, this.y, this.radius
 *
 * Methods:
 * this.sameShape( IShape) -> boolean
 * this.sameCircle( Circle) -> boolean
 *
 * Methods on fields:
 *
 * Fields of parameters:
 *
 * Methods on parameters:
 * that.sameShape( IShape) -> boolean
 */
```

Abstracts and Subclass

```
// Interface for a Shape
interface IShape {
}

// Abstract of a Shape
abstract class AShape implements IShape {
    String color;
    AShape (String color) {
        this.color = color;
    }
}

// to represent a rectangle
```



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Page 1 of 2.

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