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 Illega lAr gum ent Exc ept ion (S t ring);`	used to show an error
`Intege r.t oSt ring(i) and Double.to Str in g(i)`	takes and int or a double and makes them strings
`" Str ing ".eq ual s(" String ")`	checks if two strings are equal

Example Template

```
/*
     * Fields:
     * this.x, this.y, this.r adius
     *
     * Methods:
     * this.s ame Sha pe( IShape) -> boolean
     * this.s ame Cir cle (Ci rcle) -> boolean
     *
     * Methods on fields:
     *
     * Fields of parame ters:
     *
     * Methods on parame ters:
     * that.s ame Sha pe( IShape) -> boolean
     */
```

Abstracts and Subclass

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);
  }
}
```

```
// Interface for a Shape
interface IShape {
}
// Abstract of a Shape
abstract class AShape implements IShape {
    String color;
    ASh ape (String color) {
        thi s.color = color;
   }
}
// to represent a rectangle
```

By **daltonsheehan**

cheatography.com/daltonsheehan/

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