

Documentation

Documentation

- Fundamental for
 - Maintaining and improving existing software
 - Allow management of development teams
 - Share code
 - Big projects
 - Large teams
 - Distributed development

Javadoc

- Annotation format, allows automatic documentation generation
- Generates html describing classes, interfaces, constructors, methods, attributes, etc.
- Javadoc comments start with `/**` instead of `/*`
- Always appear before the element they document (class, method, attribute, etc.)
- More information:
 - <http://java.sun.com/j2se/javadoc/>
 - Em particular o guia de estilo em: <http://java.sun.com/j2se/javadoc/writingdoccomments/>
- Other tool to generate documentation for Java: Doxygen (<http://www.doxygen.org>)

Main annotations (Javadoc)

- `@author`: Name of author
- `@param`: Describes parameter of a method
- `@return`: Describes method return type
- `@throws`: Describes throwable exception
- `@exception`: Describes an exception
- To generate documentation for a project in Eclipse select Export / Java / Javadoc / Next or Project/Generate Javadoc. May be necessary to locate the application, e.g. `.../jdk1.6.0_04/bin/javadoc.exe`)

Example

```
/**
 * Inventory contains the ammount of coffee stores
 * @author John Smith
 */

public class Inventory {

    /**
     * Coffee inventory
     */

    private int ammountOfCoffe;

    /**
     * Construtor, default initilization 15 units of coffe
     */
    public Inventory() { ammountOfCoffee = 15; }

    /**
     * Returns the existing ammount of coffee
     * @return int
     */
    public int quantidadeDeCafe() { return ammountOfCoffee; }
}
```

Example

Class Inventory

java.lang.Object
└─ **Inventory**

```
public class Inventory  
extends java.lang.Object
```

Inventory contains the ammount of coffe stores

Author:
John Smith

Constructor Summary

[Inventory](#) ()
Construtor, default initialization 15 units of coffe

Method Summary

int	quantidadeDeCafe () Returns the existing ammount of coffe
-----	--

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Inventory

```
public Inventory ()  
  
    Construtor, default initialization 15 units of coffe
```

Method Detail

quantidadeDeCafe

```
public int quantidadeDeCafe ()  
  
    Returns the existing ammount of coffe
```

References

Y. Daniel Liang, *Introduction to Java Programming*, 7.^a edição, Prentice-Hall, 2008.

Summary

- Documentation
- Javadoc