More Sophisticated Behaviour

Technical Support System V1.0



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Lectures and Labs

- The Tech Support System lectures and labs are based on examples in Chapter 5 of:
 - Objects First with Java
 - A Practical Introduction using BlueJ, © David J. Barnes, Michael Kölling

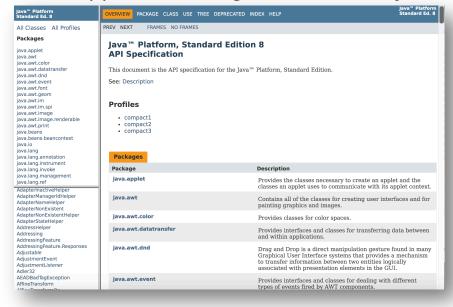


Topic List

- 1. Recap of Library Classes (Java's API).
- 2. Interface Vs Implementation.
- 3. Technical Support System **V1**:
 - Three Classes:
 - 1. InputReader class
 - 2. Responder class
 - 3. SupportSystem class

The Java class library (API)

• **API**: Application Programmers' Interface



- Thousands of classes.
- Tens of thousands of methods.
- Many useful classes that make life much easier.
- A competent Java programmer must be able to work with the libraries.
- Documentation of the Java libraries is in HTML format (generated using javadoc comments).
- Readable in a web browser.

Using library classes - import

- Classes from the library must be imported
 - using an *import* statement

```
import javax.swing.*;
import javax.swing.JOptionPane;
```

- exception are classes from java.lang
- They can then be used like classes from the current project.

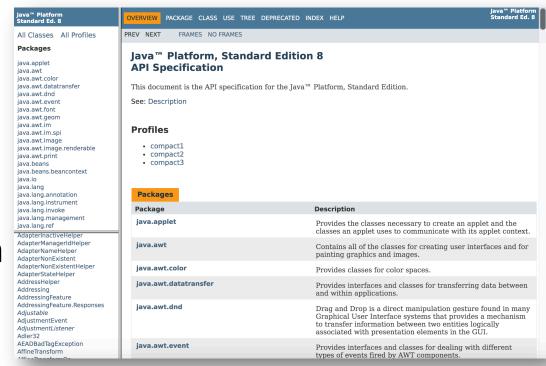
Working with the library

You should:

- know some important packages/classes by name.
- know how to find out about other classes.

Remember:

- We only need to know the interface, not the implementation.
- API contains the interface description for all library classes.



Topic List

1. Recap of Library Classes (Java's API).



- 2. Interface Vs Implementation.
- 3. Technical Support System **V1**:
 - Overview of the System
 - Three Classes:
 - 1. InputReader class
 - 2. Responder class
 - 3. SupportSystem class

Interface vs implementation

The documentation includes:

- Class name;
- Class description;
- List of constructors and methods
- Return values and parameters for constructors and methods
- Description of the purpose of each constructor and method



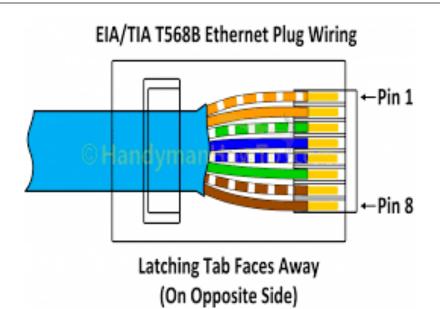


Interface vs implementation

The documentation **does** <u>not</u> include

- private fields
 - (most fields are private)
- private methods
- the bodies
 - (source code) for each method





Cat5e Wire Diagram for T568B (Straight Through Cable)				
RJ45 Pin#	Wire Color (T568A)	Wire Diagram (T568A)	10Base-T Signal 100Base-TX Signal	1000Base-T Signal
1	White/Orange		Transmit+	BI_DA+
2	Orange		Transmit-	BI_DA-
3	White/Green		Receive+	BI_DB+
4	Blue		Unused	BI_DC+
5	White/Blue		Unused	BI_DC-
6	Green		Receive-	BI_DB-
7	White/Brown		Unused	BI_DD+
8	Brown		Unused	BI_DD-

Any Questions?

