

Creating a Simple App



Jim Wilson

@hedgehogjim | blog.jwhh.com | jimw@jwhh.com

What to Expect in This Module



Creating your first IntelliJ project

Running programs from the command line

Statement and comment syntax

Introduce packages

Creating and running a NetBeans project

Demo

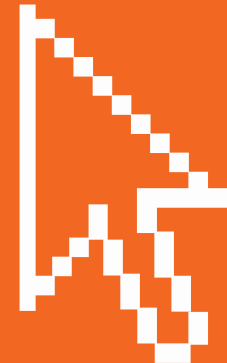
Creating Your First IntelliJ Project



Demo

Running Programs from the Command Line

```
C:\>java
```



Statement Structure

```
System.out.println( "Hello World" ) ;
```

Programs made up of statements

Statements end with a semicolon

Parts separated by zero or more whitespace

Space

Tab

Newline

Statement Whitespace

```
System.out.println("Hello World");
```

```
System.out.println ( "Hello World" );
```

```
System.out.println(    "Hello World") ;
```

```
System.out.println  
    (  
    "Hello World"  
    )  
    ;
```

Comments

Using comments

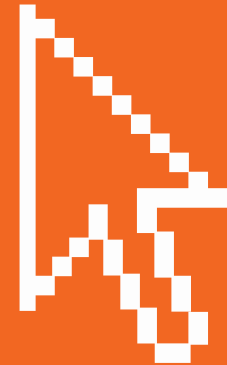
- Add human-readable notes to source code
- “Hide” source code without deleting



Types of comments

- Line comments
`//`
- Block comments
`/* ... */`
- JavaDoc comments
`/** ... */`

Demo Comments



Introducing Packages

```
package com.pluralsight.example;  
  
public class Main {  
    public static void main(Strings[] args) {  
  
    }  
}
```

Packages provide organization

Follow standard naming

Affect source code file structure

Package Naming Conventions

All lowercase

Use reversed
domain name to assure
global uniqueness

Add further qualifiers
to assure uniqueness
within a
company/group



← → ↻ 🏠  http://pluralsight.com

```
package com.pluralsight.accounting.myproject;
```

```
package com.pluralsight.myproject;
```

```
package com.pluralsight.coursemgmt.myproject;
```

Members Become Part of the Package

```
package com.pluralsight.myproject;  
  
public class Main {  
    public static void main(Strings[] args) {  
  
    }  
}
```

Main

com.pluralsight.myproject.Main

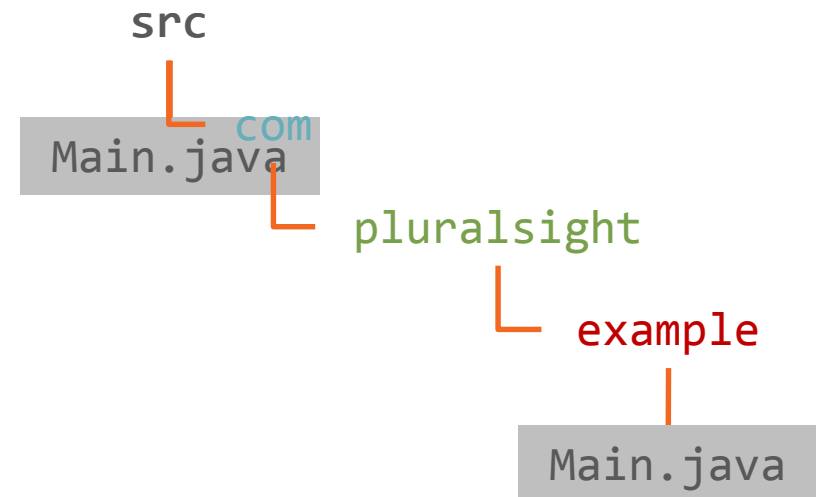
Package Name and Source File Structure

Java requires no correlation
between package names
and source code file structure

Main.java

```
package com.pluralsight.example;  
  
public class Main {  
    public static void main(Strings[] args) {  
  
    }  
}
```

But most IDE's require a
sub-folder for each part of the
package name

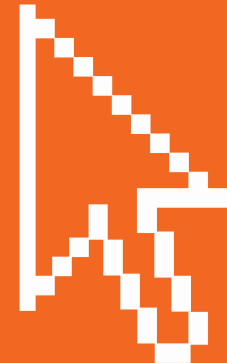


Demo Packages



Demo

Creating and Running a NetBeans Project



Summary

- Execute programs from the command line with the “java” command
 - Remember to use the full class name including the package name
 - On Windows must include JRE bin folder in Path environment variable
- Programs are made up of statements
 - Statements end with a semicolon
 - Parts separated by zero or more whitespaces
- Use comments to add notes and hide statements from the compiler
- Packages provide organization
 - Assure uniqueness
 - Most IDE's tie source code file structure to package names