

THE FIRST LINE OF ANY JAVA FILE
THAT YOU OPEN USUALLY LOOKS LIKE THIS



```
package com.company;

/**
 * Created by vitthal on 23/8/2015.
 */
public interface IShape {

    public double getArea();
    public double getPerimeter();

    default String getColor() {
        return "Color.Red";
    }
}
```

THIS LINE TELLS US WHAT **PACKAGE** THIS PARTICULAR CLASS OR
INTERFACE RESIDES IN

THE PACKAGE IS A WAY OF HIERARCHICALLY
ORGANIZING FILES INTO **NAMESPACES**

THINK OF A NAMESPACE AS
SOMETHING LIKE A DIRECTORY
STRUCTURE FOR NAMES OF
CLASSES

WITHIN A DIRECTORY, FILE NAMES
MUST BE UNIQUE, BUT FILES IN
DIFFERENT DIRECTORIES CAN HAVE
THE SAME NAME

THIS NAME + LOCATION TOGETHER
CONSTITUTE THE FILE'S

PATH

A FILE CAN BE UNIQUELY IDENTIFIED
BY THE COMBINATION OF ITS NAME
AND LOCATION

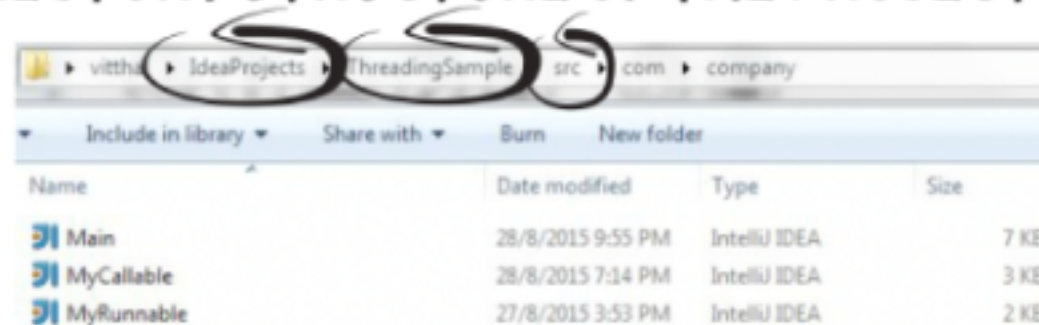
IN FACT THE SIMILARITIES BETWEEN
A PATH AND A PACKAGE/NAMESPACE
ARE NOT COINCIDENTAL -

THE PACKAGE THAT A CLASS BELONGS
TO CORRESPONDS TO THE DIRECTORY
LOCATION OF THE SOURCE CODE (.JAVA)
FILE WITHIN THAT PROJECT

AND IN THE DIRECTORY STRUCTURE OF THE PROJECT

THE FOLDER WHERE
THE IDE STORES
ALL JAVA PROJECTS

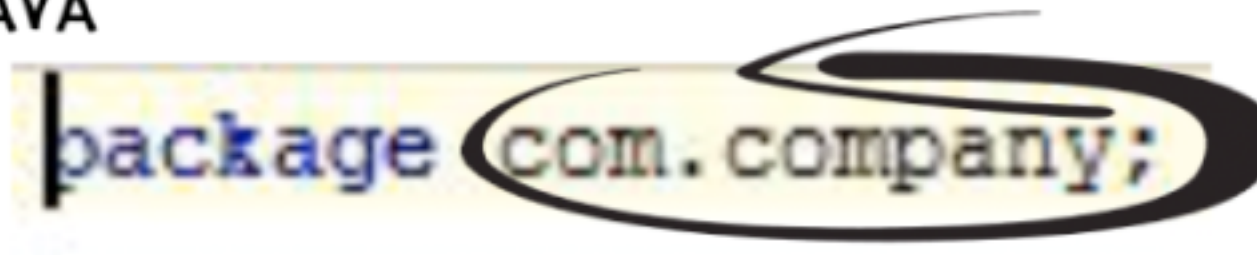
WITHIN THAT FOLDER,
A FOLDER FOR THIS
PARTICULAR JAVA
PROJECT



Name	Date modified	Type	Size
Main	28/8/2015 9:55 PM	IntelliJ IDEA	7 KB
MyCallable	28/8/2015 7:14 PM	IntelliJ IDEA	3 KB
MyRunnable	27/8/2015 3:53 PM	IntelliJ IDEA	2 KB

WITHIN EACH PROJECT
FOLDER IS A FOLDER
NAMED SRC, WHERE
THE CODE RESIDES

INSIDE MAIN.JAVA



```
package com.company;
```

FINALLY, INSIDE THE SRC FOLDER,
IS A DIRECTORY HIERARCHY
EXACTLY MIRRORING THE PACKAGE
NAME

**PACKAGES ARE HANDY..ER..PACKAGES..
FOR GROUPING CODE**

**ZIP THEM ALL INTO A SINGLE JAR FILE
WITH A SINGLE COMMAND**

```
jar cf myPackage.jar *.class
```

IMPORT ALL CODE IN A PACKAGE TO MAKE THAT CODE USABLE IN YOUR CODE

```
import java.io.BufferedReader;  
import java.io.FileNotFoundException;  
import java.io.FileReader;  
import java.io.IOException;  
import java.util.*;
```



IN FACT, JAVA BUILT-IN CLASSES ARE
MADE AVAILABLE TO PROGRAMMERS
USING EXACTLY THIS MECHANISM