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kunal-kushwaha oop 5

4c37440 · 3 years ago

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```
1 Packages are containers for classes. They are used to keep the class name space compartmentalized.
2 For example, a package allows you to create a class named List, which you can store in your own package without
3 concern that it will collide with some other class named List stored elsewhere. Packages are stored in a hierarchical
4 manner and are explicitly imported into new class definitions.
5
6 The package is both a naming and a visibility control mechanism.
7
8 The following statement creates a package called MyPackage: package MyPackage;
9
10 Java uses file system directories to store packages. For example, the .class files for any classes you declare to be
11 part of MyPackage must be stored in a directory called MyPackage. Remember that case is significant, and the directory
12 name must match the package name exactly.
13
14 A package hierarchy must be reflected in the file system of your Java development system.
15 For example, a package declared as
16
17     package java.awt.image;
18
19 needs to be stored in java\awt\image in a Windows environment. Be sure to choose your package names carefully.
20 You cannot rename a package without renaming the directory in which the classes are stored.
21
22 How does the Java run-time system know where to look for packages that you create? The answer has three parts.
23 - First, by default, the Java run-time system uses the current working directory as its starting point.
24 Thus, if your package is in a subdirectory of the current directory, it will be found.
25 - Second, you can specify a directory path or paths by setting the CLASSPATH environmental variable.
26 - Third, you can use the -classpath option with java and javac to specify the path to your classes.
27
28 When a package is imported, only those items within the package declared as public will be available to non-subclasses
29 in the importing code.
```