Ant Elements

- PatternSet Groups of patterns of files or directories
- DirSet Groups of directories
- FileSet Groups of files
- FileList Explicit list of files
- FileMapper Translates file names
- FilterReader Filters files or directories
- FilterChain Groups of FilterReaders

Ant Elements

- Selectors Provide more control over file selection
- . Class FileSet Groups of class files
- Paths Like file system paths
- Listeners Alerts for events within a build
- Loggers Logging events

PatternSet

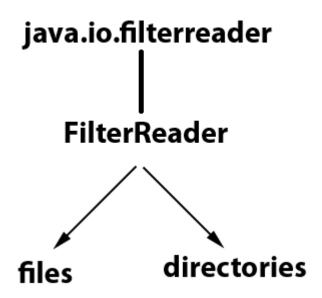
PatternSets group files and/or directories

- . ? matches a single character
- * matches zero or more characters
- ** matches zero or more directories recursively

FileMapper

- identity Target filename identical to source filename
- flatten Directory structure is flattened
- merge Target filename is the same for all source files
- glob Glob matching used on files
- regexp Regular expression matching used on files
- package Based on Java package of source files

java.io.filterreader



- stripjavacomments Removes java comments from .java files
- striplinecomments Removes user-defined comment lines
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Requires the BCEL library in the classpath

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http://commons.apache.org/proper/commons-bcel/download_bcel.cgi

- tabstospaces Replaces tabs with a given number of spaces
- headfilter Returns only the top given number of lines
- tailfilter Returns only the botton given number of lines
- linecontains Copies only lines containing a given string
- linecontainsregexp Copies only lines matching a regexp
- prefixlines Adds a string to the beginning of every line
- expandproperties Expands Ant properties

Selectors

- . date
- present
- size
- contains
- containsregexp
- depend
- depth
- . different

Selectors

- type
- modified
- signedselector
- scriptselector
- . readable
- writable

Selector Containers

- and
- · or
- not
- none

Listeners

- Build started
- . Build finished
- Target started
- Target finished
- . Task started
- . Task finished
- Message logged

Loggers

- . DefaultLogger
- NoBannerLogger
- TimestampedLogger
- BigProjectLogger
- SimpleBigProjectLogger
- . ProfileLogger
- AnsiColorLogger
- . MailLogger
- Log4JListener
- . XmlLogger

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Summary



PatternSet

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PatternSet

DirSet

FileSet

```
<fileset dir="build" defaultexcludes="yes">
    <patternset id="source">
        <include name="**/*.java" />
        <exclude name="**/*Test*" />
        </patternset>
    </fileset>
```

FileList

```
<filelist id="source"
dir="src"
files="SysConfig.java,
IConstants.java,
Encrypt.java" />
```

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- stripjavacomments Removes java comments from .java files
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- striplinebreaks Removes end-of-line characters
- classconstants Outputs name/value pairs of constants in class files
- replacetokens Replaces specified tokens within files

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ClassFileSet

```
<classfileset id="reqdClasses" dir="${classes.dir}">
  <rootfileset dir="${classes.dir}"
  includes="com/pluralsight/tools/Util*.class"/>
  </classfileset>
```

Path

Loggers

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