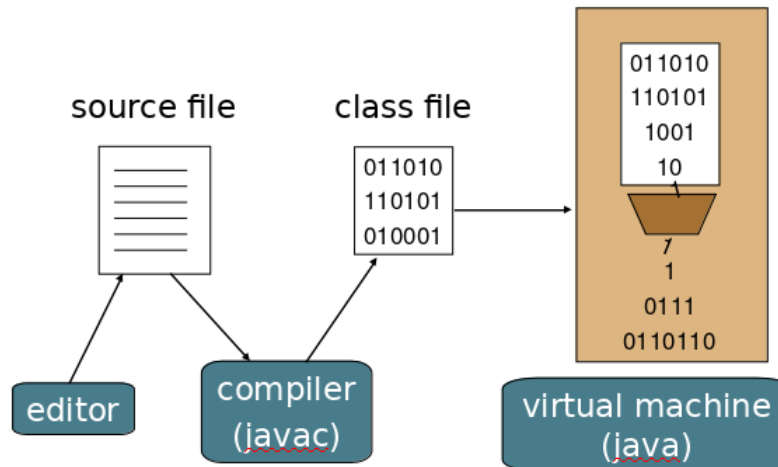


Java without BlueJ

1 Standard Java files

- Source files: *.java
 - Java source files contain the source code in a readable form, as types in by the programmer
- Class files: *.class
 - Java class files contain byte code. They are generated by the compiler from the source file

2 The edit-compile-execute cycle



3 Compiling

To invoke `javac <source name>`, compiles `<source name>` and all the classes it depends on

4 Execution

`java <class>` starts the JVM and the named class is loaded and execution is started. Other classes are loaded as needed.

5 Main method

The java system always executes a method called main with a certain signature

```
public static void main(String[] args)
{
    ...
}
```

- main must exist
- main must be public
- main must be static
- main must have a String array parameter
- Only main can be invoked

6 Testing

- To test, test drivers must be written
- All test method calls must be written into a test method
- All relevant parameter combination must be tested
- If tests depend on the results of earlier tests, the test driver must be edited and recompiled
- The test driver must create the objects