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Files

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Reading files

Boilerplate for reading plaintext files

```
reading
  import java.io.BufferedReader; // higher level file object that reads
     Strings
  import java.io.IOException;
3
4
5
  public class Program {
      public static void main(String[] args) {
6
7
         try (BufferedReader br = new BufferedReader(new FileReader("
            test.txt"))) {
             String text;
8
9
             while ((text = br.readLine()) != null) {
                 // do stuff with text
             }
11
12
         } catch (Exception e) {
             e.printStackTrace();
13
14
         }
15
      }
16 }
```

- BufferedReader is a wrapper that encompasses FileReader, allowing you to manipulate files
 - well suited to large files and fast processing

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Boilerplate: reading plaintext with Scanner

• can also use Scanner, allowing you to parse lines into tokens, read as integers, ...

Reading CSV files

```
1 String[] columns = text.split(",");
```

Writing files

Boilerplate for writing plaintext files

```
1 import java.io.FileWriter;
2 import java.io.PrintWriter;
3 import java.io.IOException;
5 public class Program {
       public static void main(String[] args) {
6
           try (PrintWriter pw = new FileWriter("test.txt")) {
8
               pw.println("Hello World");
9
               pw.format("Test a %s and an integer %d", "string", 10);
10
           } catch (Exception e) {
11
               e.printStackTrace();
12
           }
13
       }
14 }
```