

File Input and Output Summary

- Reading Text Files
 - Simplest method: Scanner class
 - File Class - describes disk files and directories
 - Reading files with Scanners works like lists, but you can't move backward.
 - Use while() loops to cycle through text files
 - **CLOSE SCANNER OBJECTS!!!**
- Writing Text Files
 - PrintWriter
 - Creates a new file if one does not exist.
 - If a file is already made, it will remove the contents and rewrite over it.
 - Is of the PrintStream class, and allows use of: print(), println(), and printf()
 - **CLOSE PRINTWRITER OBJECTS!!!**
- Exception Handling
 - Use try-catch blocks anytime accessing/creating a file.
 - Declare the objects used outside the Try blocks.
 - Instantiate the objects within the try blocks.
- JFileChooser
 - When using a GUI, this will allow the user to choose a file from their directories
 - Implementation:

```
JFileChooser chooser = new JFileChooser();
Scanner in = null;
if(chooser.showOpenDialog(null) == JFileChooser.APPROVE_OPTION){
    File selectedFile = new chooser.getSelectedFile();
    in = new Scanner(selectedFile);
    // Rest of code here.
}
```
- File Class
 - Java API: <http://download.oracle.com/javase/6/docs/api/java/io/File.html>
 - Lots of useful methods on the Java API
 - createNewFile() - creates a new file
 - delete() - deletes a file
 - renameTo(File dest) - renames a file to the given parameter
- Scanner Class Methods
 - Java API: <http://download.oracle.com/javase/6/docs/api/java/util/Scanner.html>
 - next() - reads the next word (anything between white space)
 - nextLine() - reads the next line
 - nextInt() - reads the next integer
 - nextDouble() - reads the next double
 - nextChar() - reads the next character