Java Programming

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- JavaFX

- FileChooser

Today's Lecture

- FileChooser

- A control that allows you to select a file using a dialog box.

- Import:

import javafx.stage.FileChooser;

- For example...

FileChooser

- Displays an **<u>open</u>** file dialog for the current working directory.

Create the FileChooser instance

```
FileChooser fileChooser = new FileChooser();
File current = null;
try {
    current = new File(new File(".").getCanonicalPath()); // Current working directory
} catch (IOException e1) {
    e1.printStackTrace();
}

fileChooser.setInitialDirectory(current);
File selectedFile = fileChooser.showOpenDialog(null);
if (selectedFile != null) {
    // Code to use selected file goes here…
}
```

Create File instance that is for the current directory (store in current variable)

showOpenDialog displays an <u>open</u> file dialog to the user. This method will return the user selected file in a File object.

FileChooser – Open Dialog

- A **<u>save</u>** file dialog is slightly different than an open file dialog.
  - ◦ Save file dialog – Can give the name of a file that does not exist yet.
  - ◦ Open file dialog – File must exist beforehand.

```
FileChooser fileChooser = new FileChooser();
File current = null;
try {
  current = new File(new File(".").getCanonicalPath()); // Current working directory
} catch (IOException e1) {
  e1.printStackTrace();
}


fileChooser.setInitialDirectory(current);
File selectedFile = fileChooser.showSaveDialog(null);
if (selectedFile != null) {
  // Code to use selected file goes here…
}
```

showSaveDialog displays a <u>save</u> file dialog to the user. This method will return the user selected file in a File object.

FileChooser – Save Dialog

- You can filter the types of files that a FileChooser displays.
- Make sure to set the filter before showing the dialog.
- The following code will filter for only .txt files:

Create filter for text files

```
// Set extension filter
FileChooser.ExtensionFilter extFilter =
    new FileChooser.ExtensionFilter("Text files (*.txt)", "*.txt");

fileChooser.getExtensionFilters().add(extFilter);
```

Add the filter to the file chooser

FileChooser - Filter

End of Slides