### Swing and JOptionPane

**Using GUI Components** 

Produced Mairead Meagher

by: Dr. Siobhán Drohan



## Topics list

- Swing
- JOptionPane
- JOptionPane methods

## Using Swing to create dialog boxes

- What is Swing?
  - Swing is a set of program components for Java programmers that allow you to create graphical user interface (GUI) components
    - e.g. buttons, scroll bars, etc
- We make swing components available to us by 'import'ing the swing components at the start of the program.

components

import javax.swing.\*;

## Using JOptionPane with Swing

- Having imported Swing, we can use these
- JOptionPane methods:
  - showMessageDialog
    - Simple message output
  - showInputDialog
    - Allows user to type in (string) input
  - showConfirmDialog
    - Allow the user to choose an option

## Simple Message output

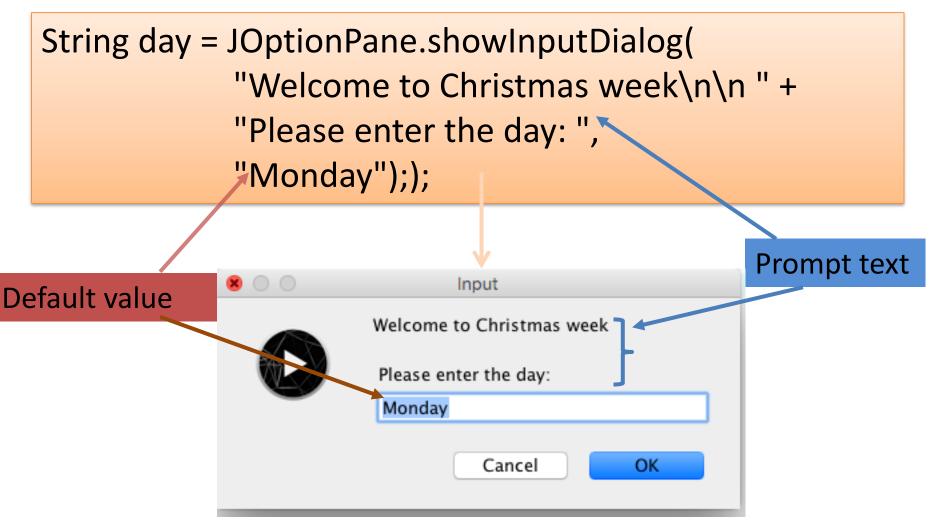
null will work as first parameter.



## Message output with label



## Message output with label



### Reading in numbers via JOptionPane

#### • Problem:

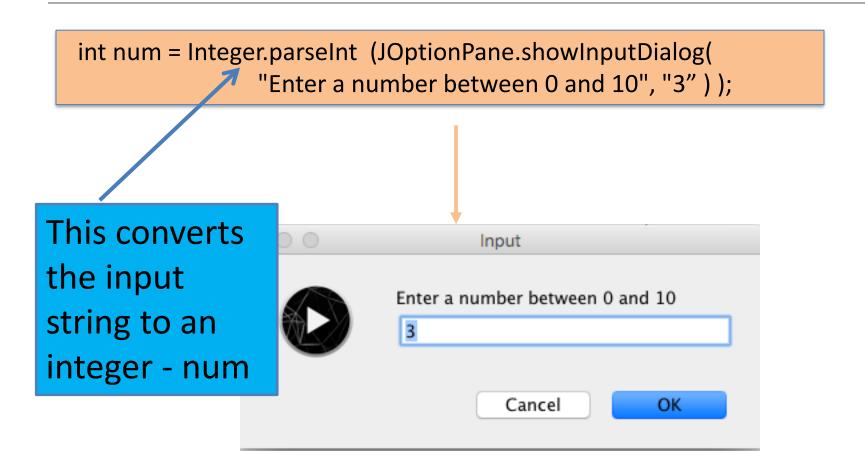
- showInputDialog returns a String
- So if you type 22, it is the string "22", so cannot use it as a number

#### Solution

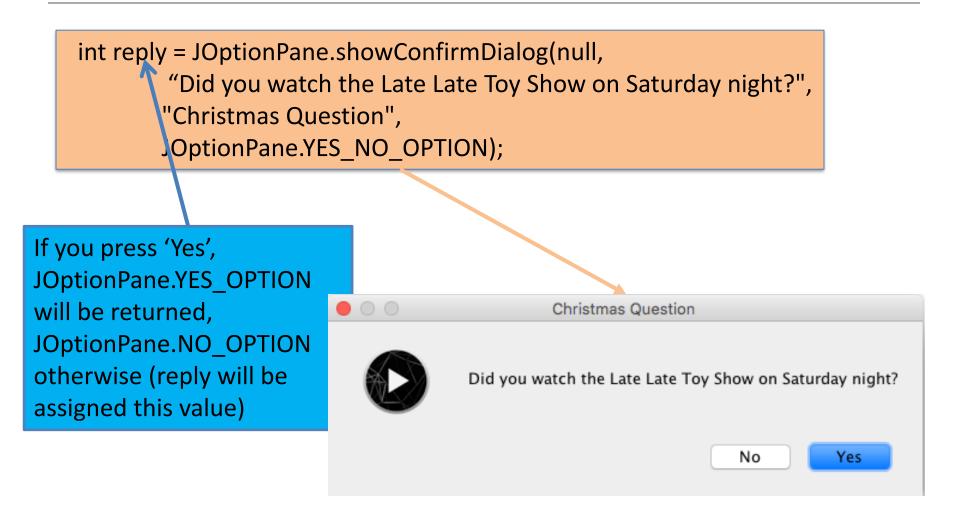
 Use a predefined method to convert it (or any such string) to a number.

```
int number = Integer.parseInt("22");
println (number + 3);
Will print the number 25
```

## Using parseInt with input



# Using the Yes/No option



# Questions?





Except where otherwise noted, this content is licensed under a Creative Commons
Attribution-NonCommercial 3.0 License.

For more information, please see http:// creativecommons.org/licenses/by-nc/3.0/