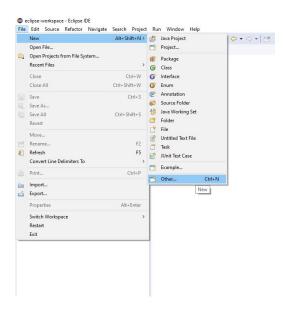
JavaFX

Basic Procedure for Building JavaFX Apps

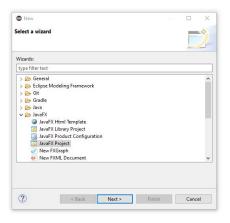
Dalton State College

T. Gonzalez

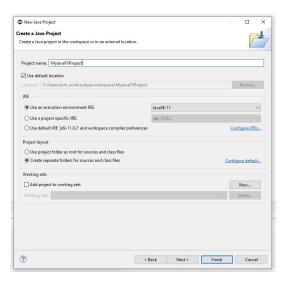
1. Open up eclipse and choose File > New > Other



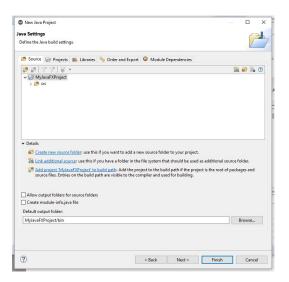
2. Choose JavaFX > JavaFXProject and then click Next



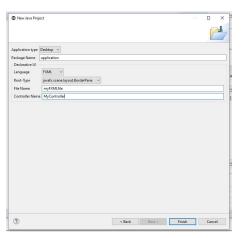
3. Type project name and click Next. Adjust default location if desired and then click Next.



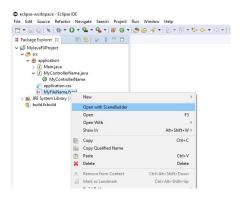
4. Uncheck create module-info.java (optional) and then click Next.



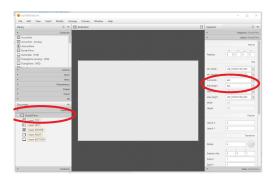
- 5. Choose FXML for language.
- 6. Choose a container for root-type.
- 7. Choose a file name.
- 8. Choose a Controller name.
- 9. Click Finish.



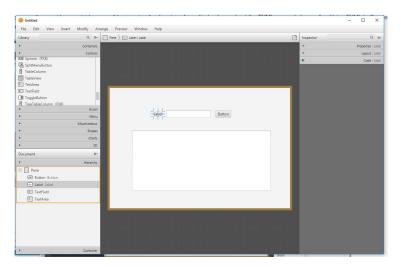
10. Find your FXML file in the Package Explorer, right click and choose Open with Scene Builder.



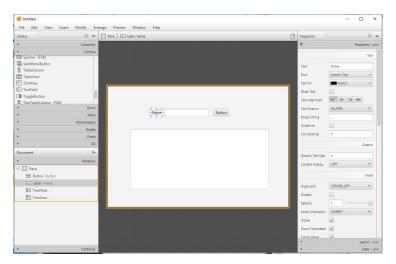
- 11. In Scene Builder, you might have to resize your root container to make it visible.
 - Click on your root container in the Hierarchy tab.
 - ▶ Under Layout click on Pref Width and set to 600, then click on Pref Height and set to 400.



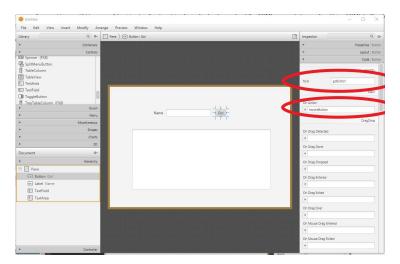
12. Drag other controls and containers from the Library Panel to the Content Panel.



13. Adjust a control's properties by clicking on the control, choosing Properties from the Inspector Panel, and changing the desired property.

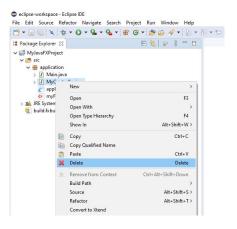


14. Adjust each control's fxid and event handler (if applicable) by clicking on the control, choosing Code from the Inspector Panel, and changing the value for fxid and On Action text field.

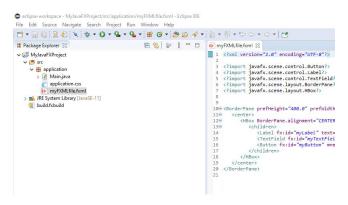


15. Save the file, close Scene Builder, and go back to eclipse.

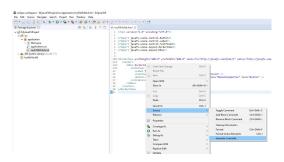
16. In eclipse, right click and delete the existing controller.



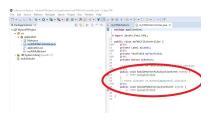
17. Open the FXML file by double clicking on it.



18. Right-click within the FXML document and choose Source > Generate Controller, and then click OK.



19. Open the controller file and add your event handling code to the Event Listener methods.



Write a JavaFX program with a Label, TextField, Button, and TextArea. When the user types their name into the TextField and then clicks the Button, the message Hello <Name> is displayed where <Name> is the text that the user entered in the TextField.

Write a JavaFX program with two buttons and a Text object. Clicking on one button should move the Text object to the left and clicking on the other button should move the Text object to the right.

Write a JavaFX program that converts miles to kilometers and vice versa. The GUI should have two TextFields, one for miles and one for kilometers. If you enter a value in the miles TextField and press the enter key, the corresponding kilometer value is displayed in the kilometers TextField. Likewise, if you enter a value in the kilometer TextField and press the Enter key, the corresponding mile value is displayed in the mile TextField.

Write a JavaFX program that lets the user enter a loan amount and loan period in number of years and displays the monthly and total payments for each interest rate starting from 5% to 8%, with an increment of 1/8. The user interface should include two TextFields, one for the loan amount, one for the number of years. The user interface should also contain a Button. When the user clicks the button, the results should be displayed in a TextArea. The next slide shows a sample run.

Loan Amount: 10000 Number of Years: 5

Interest Rate 5.000%	Monthly Payment	Total Payment
	\$188.71 \$189.28 \$189.85	\$11,322.74 \$11,357.13 \$11,391.59
5.125%		
5.250%		
7.875%	\$202.17	\$12,129.97
8.000%	\$202.76	\$12,165.83