2.2 EVENT HANDLING

JavaFX in 4 Days

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WHAT IS EVENT

- There are two types of Events in JavaFX
- One is user action event, such as mouse event, key events etc.
- The other is it's own value change event
- When event is happened, the registered event handler can be done automatically

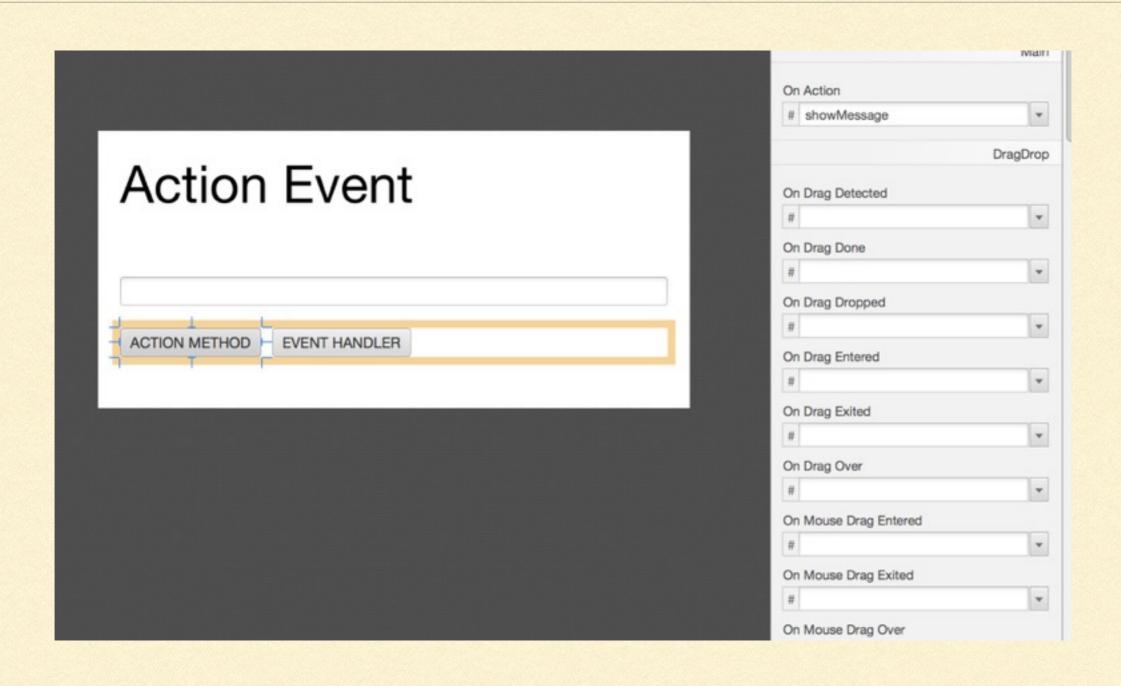
HOWTO HANDLE EVENTS

- Every public void method of controller class can be set as onAction attribute of FXML Nodes
- ButtonBase and it's sub class has setOnAction method and you can set EventHandler object as it's parameter

ACTION METHOD

```
@FXML
private Text message;
@FXML
private TextField textInput;
@Override
public void start(Stage primaryStage) throws Exception {
  Parent root = FXMLLoader.load(getClass().getResource(FXML_FILE));
  Scene scene = new Scene(root);
  primaryStage.setScene(scene);
  primaryStage.show();
public void showMessage() {
  message.setText(textInput.getText());
}
```

USING ACTION METHOD



EVENT HANDLER

```
@FXML
private Button btn;
@Override
public void initialize(URL location, ResourceBundle resources) {
  btn.setOnAction(new EventHandler<ActionEvent>() {
     @Override
     public void handle(ActionEvent event) {
        showMessage();
  });
```

VALUE CHANGE EVENT

```
@FXML
private ChoiceBox<Browser> choice;
@FXMI
private ImageView img;
@FXMI
private Text text;
@Override
public void initialize(URL location, ResourceBundle resources) {
   choice.getItems().addAll(browsers());
   choice.valueProperty().addListener((a, b, c) -> {
       Image image = new Image(getClass()
              .getResourceAsStream(c.getImgPath()));
      img.setImage(image);
   });
   img.setOnMouseClicked(a ->
      text.setText(choice.getSelectionModel()
              .getSelectedItem().getName()));
}
```

VALUE CHANGED

