CS 213 – Spring 2019

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Lecture 5 – Feb 5

GUI: ListView - 1

Step 1: ListView in AnchorPane

view/List.fxml

ListView is "anchored" to the sides of the containing pane with a 10 pixel margin – View will resize with pane, so that margins are always 10 pixels

ListView is empty at this point – need to populate it

Step 2: Populating with ObservableList

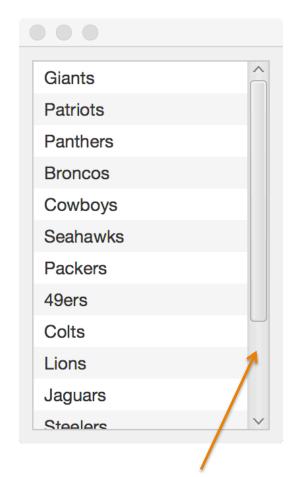
view.ListController

```
package view;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.fxml.FXML;
import javafx.scene.control.ListView;
public class ListController {
   @FXML
   ListView<String> listView;
   private ObservableList<String> obsList;
   public void start() {
      // create an ObservableList
      // from an ArrayList
      obsList = FXCollections.observableArrayList(
                  "Giants".
                 "Patriots".
                  "Jaquars"):
      listView.setItems(obsList);
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```

Step 3: Loading and Displaying

app.ListApp

```
package app;
public class ListApp extends Application {
   public void start(Stage primaryStage)
   throws Exception {
      FXMLLoader loader = new FXMLLoader();
      loader.setLocation(
         getClass().getResource("/view/List.fxml"));
      AnchorPane root = (AnchorPane)loader.load();
      ListController listController =
         loader.getController();
      listController.start();
      Scene scene = new Scene(root, 200, 300);
      primaryStage.setScene(scene);
      primaryStage.show();
   public static void main(String[] args) {
      launch(args);
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```



Scroll bar automatically appears if list is longer than view area

Remember:

DO NOT CREATE A CONTROLLER

INSTANCE with new — it will not have any connection to the FXML-sourced widgets with which the user will interact

The way to get at the controller instance that links to the FXML layout is to call getController() on the FXMLLoader AFTER you call load() on it