Hands-On Lab

State-by-State Data Visualizations

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Contents

[Overview 3](#_Toc338154805)

[Exercise 1: Adding Flip Tiles 4](#_Toc338154806)

[Task 1 – Adding and Replacing Assets 4](#_Toc338154807)

[Task 2 – Supporting Flip Tiles 5](#_Toc338154808)

[Task 3 – Testing Flip Tile Support 6](#_Toc338154809)

[Exercise 2: Adding Cyclic Tiles 12](#_Toc338154810)

[Task 1 – Supporting Cyclic Tiles 12](#_Toc338154811)

[Task 2 – Testing Cyclic Tile Support 14](#_Toc338154812)

[Exercise 3: Adding Iconic Tiles 19](#_Toc338154813)

[Task 1 – Changing the Manifest 19](#_Toc338154814)

[Task 2 – Supporting Icon Tiles 21](#_Toc338154815)

[Task 3 – Testing Iconic Tile Support 23](#_Toc338154816)

[Summary 27](#_Toc338154817)

Overview

* 1. Using some predefined data sets, we’ll explore several different ways to display our data.

**Lab Structure**

This lab includes exercises with the following tasks:

* + Exploring chart types in Excel
  + Explore Excel + HTML Size + Color Helpers
  + Using Google Maps

# Estimated completion time

* 1. Completing this lab should take at least 60 minutes.

Exercise 1: Excel Charting

* 1. In this exercise we will modify the Contoso Cookbook app to support secondary tiles, starting with flip tiles. We will then test our changes and see how the new tiles enable direct navigation into the app, and display important information from the app on the Start screen.
  2. This exercise will concentrate on flip tiles; the subsequent exercises will demonstrate the two other tile types (cyclic and iconic).

Task 1 – Adding and Replacing Assets

Task 3 – Testing Flip Tile Support

Exercise 2: Using Excel Helpers + HTML Helpers

* 1. In this exercise we will add cyclic tile support to the Contoso Cookbook app.

Task 1 – Supporting Cyclic Tiles

* 1. A cyclic tile displays a repeating series of images. We will use a cyclic tile to display recipe images in a recipe group pinned by the user.
  2. As earlier, to support cyclic tiles, we will replace some of the common functionality provided by the **Common.Features** class.
  3. Open the **Features.cs** file.
  4. Locate the **Tile** class.

Exercise 3: Import Data to Google Maps

* 1. In this exercise we will add iconic tiles to the Contoso Cookbook app.

Task 1 – Changing the Manifest

* 1. First, we update our app’s tile template in the manifest to declare support for iconic tiles.
  2. Open the **WMAppManifest.xml** file.
  3. Go to the "Application UI" tab and scroll down to the end. In the "Tile Template" combo box, select "TemplateIconic":
     1. Figure 16
     2. Selecting a Tile Template in the Application Manifest
  4. Type "Contoso Cookbook" into the "Tile Title" text field.
  5. Click the "…" button for the "Small" tile image and choose the **Assets\SmallLogo.png** file:
     1. Figure 17
     2. Adding a Small Tile Image to the Application Manifest
  6. Click the "…" button for “Medium” tile image and choose the **Assets\MediumLogo.png** file:
     1. Figure 18
     2. Adding a Medium Tile Image to the Application Manifest
  7. The application is now capable of displaying custom iconic tiles on the Start screen.

Task 2 – Supporting Icon Tiles

* 1. The Contoso Cookbook app will use iconic tiles to display brief information about the last visited recipe group on the app’s primary tile. Iconic tiles support a numeric badge, a title when medium- or wide-sized, and up to three lines of text in wide size.To pin our app’s primary tile to the start screen: scroll the Start screen left to reveal the list of installed apps, find the Contoso

Summary

* 1. In this lab, you learned how to use tiles to supply information without forcing users to open your app. All tile types support three sizes (small, medium, and wide), and the user can toggle between the sizes to reconfigure the Start screen. By supporting various types of tiles – flip tiles, cyclic tiles, and iconic tiles – your app can offer a variety of pinned content on the phone’s Start screen.