

Exercise 5: Setting the Map Extent

It is a common practice for an application to reference multiple services. Often your base map will be stored in a service separate from the application specific data. However, because base maps tend to have a wide geographic extent you may want to set the initial extent to something other than the default extent of the base map service. Instead, you want to set the map extent to your application specific service. The 'load' property can be used to accomplish this. In this exercise will add a cached map service with ArcGISTiledMapServiceLayer which will serve as our base map. In addition, we will also add a dynamic map service of the Louisville, KY area and set the initial map extent to this service.

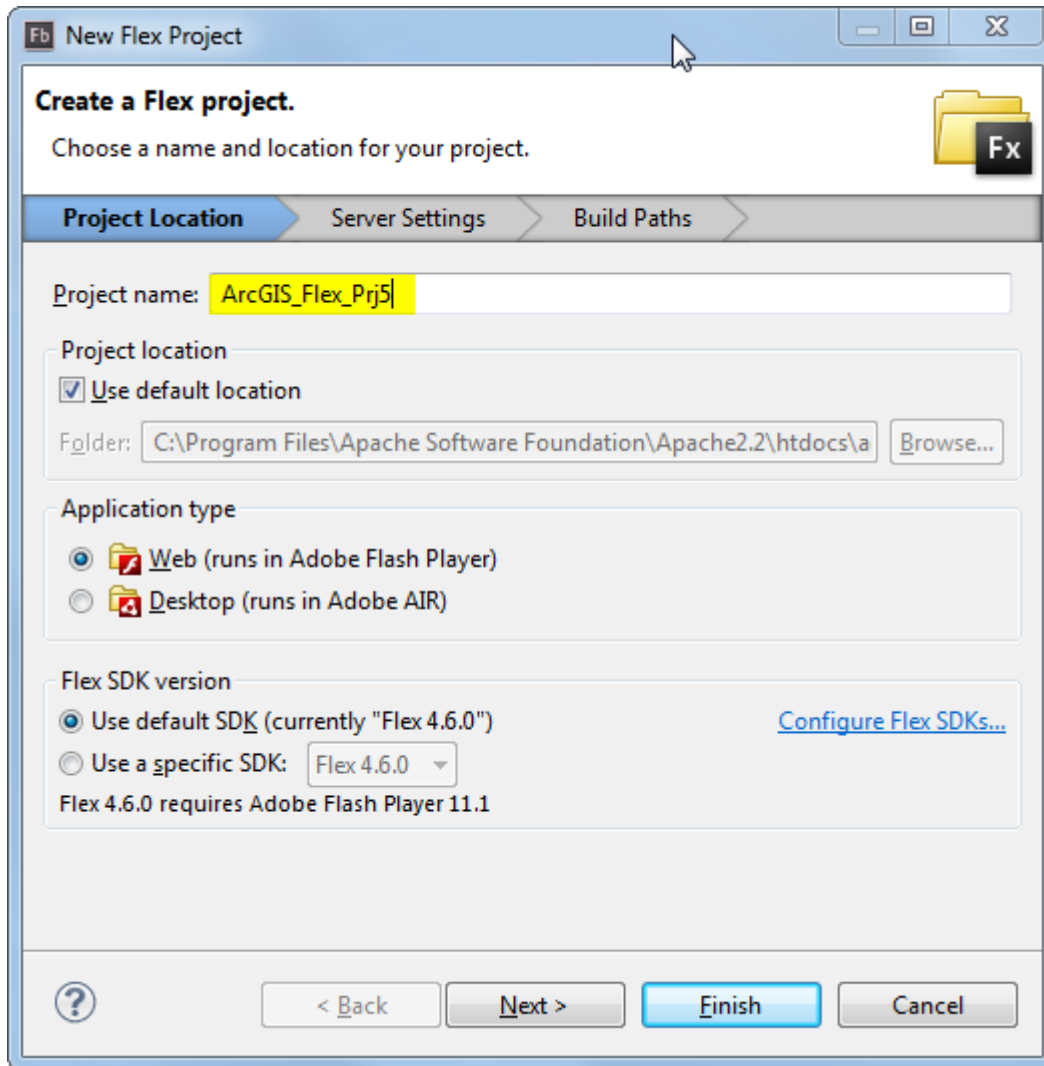
The two map services used in this exercise are listed below:

- Base Map
http://server.arcgisonline.com/ArcGIS/rest/services/ESRI_StreetMap_World_2D/MapServer
- Louisville, KY Area
http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Louisville/LOJIC_LandRecords_Louisville/MapServer

Step 1: Create Flash Builder Project

- Open Flash Builder

- Create a new Flex Builder project called AGIS_Flex_Prj5 and add a reference to the AGIS API for Flex. If you need a refresher on how to do this please refer to Exercise 1.



Step 2: Create Map and Add Layers

- Examine the ArcGIS_Flex_Prj5.mxml file created for you.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Application xmlns:fx="http://ns.adobe.com/mxml/2009"
  xmlns:s="library://ns.adobe.com/flex/spark"
  xmlns:mx="library://ns.adobe.com/flex/mx" minWidth="955" minHeight="600">
  <fx:Declarations>
    <!-- Place non-visual elements (e.g., services, value objects) here -->
  </fx:Declarations>
</s:Application>
```

- Create a new Map as seen in the code example below. Remember to reference the ArcGIS API by entering the appropriate xmlns declaration in the <s:Application> tag. Make sure you give

your map an 'id'. I have given my map an id of 'map', but you are free to name it whatever you wish.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Application xmlns:fx="http://ns.adobe.com/mxml/2009"
  xmlns:s="library://ns.adobe.com/flex/spark"
  xmlns:esri="http://www.esri.com/2008/ags"
  xmlns:mx="library://ns.adobe.com/flex/mx" minWidth="955" minHeight="600">
  <fx:Declarations>
    <!-- Place non-visual elements (e.g., services, value objects) here -->
  </fx:Declarations>
  <esri:Map id="map">
  </esri:Map>
</s:Application>
```

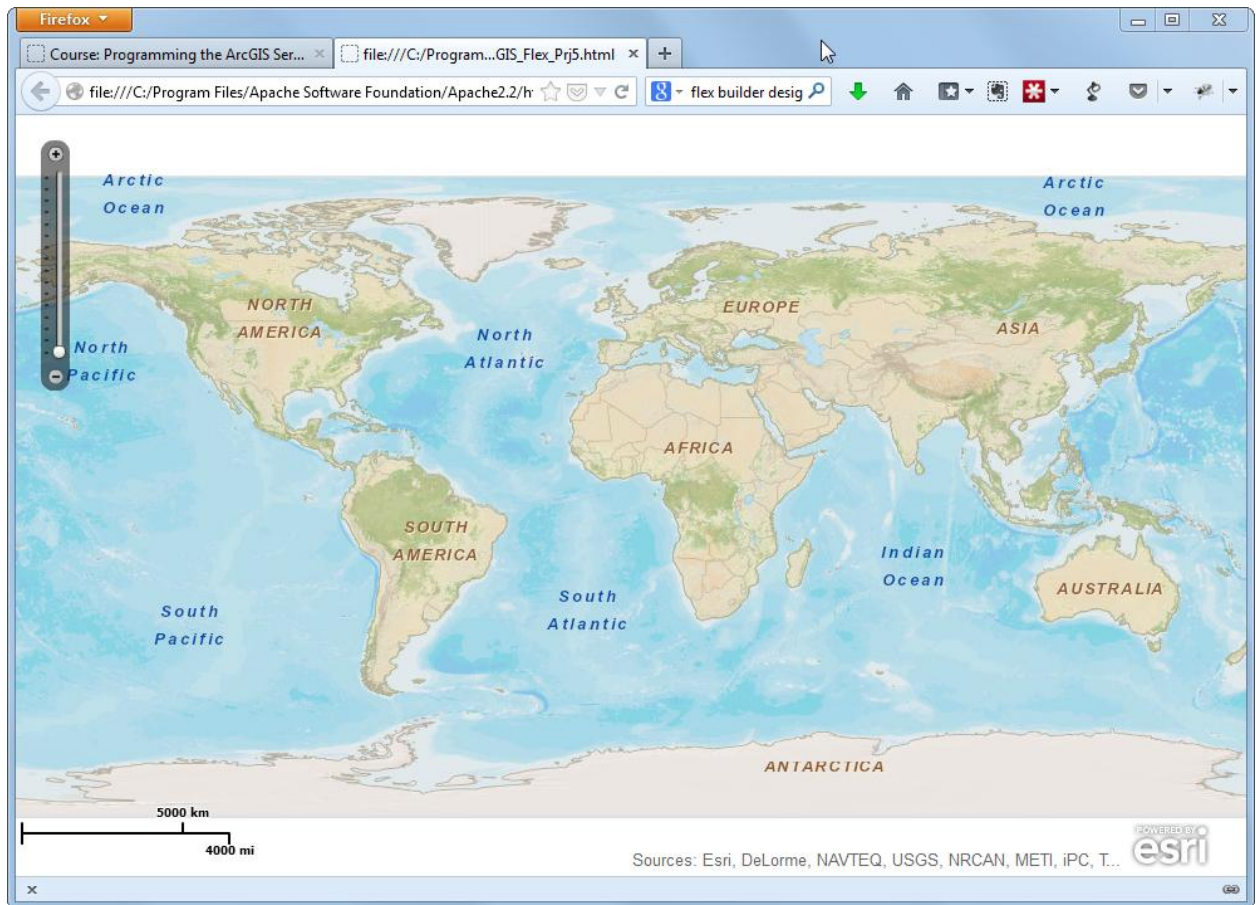
- Next, add a reference to our base map which will be an instance of ArcGISTiledMapServiceLayer. Point the 'url' property to the base map endpoint we noted in the introduction to this exercise.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Application xmlns:fx="http://ns.adobe.com/mxml/2009"
  xmlns:s="library://ns.adobe.com/flex/spark"
  xmlns:esri="http://www.esri.com/2008/ags"
  xmlns:mx="library://ns.adobe.com/flex/mx" minWidth="955" minHeight="600">
  <fx:Declarations>
    <!-- Place non-visual elements (e.g., services, value objects) here -->
  </fx:Declarations>
  <esri:Map id="map">
    <esri:ArcGISTiledMapServiceLayer
      url="http://server.arcgisonline.com/ArcGIS/rest/services/ESRI_StreetMap_World_2D/MapServer" />
  </esri:Map>
</s:Application>
```

- File → Save
- Click the Run button to test your project



- You should see something similar to the following figure if you have done everything correctly.



At this point we have added our base map layer and you will note that the map extent defaults to the full extent of this layer. Now we will add in our dynamic map service layer showing the Louisville, KY area and set the initial map extent to this extent.

- Next, add a reference to our Louisville area which will be an instance of ArcGISDynamicMapServiceLayer. Point the 'url' property to the Louisville endpoint we noted in the introduction to this exercise, and give it an 'id' of 'louisville'.

```
<esri:Map id="map">
  <esri:ArcGISTiledMapServiceLayer
    url="http://server.arcgisonline.com/ArcGIS/rest/services/ESRI_StreetMap_World_2D/MapServer" />
  <esri:ArcGISDynamicMapServiceLayer id="louisville"
    url="http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Louisville/LOJIC_LandRecords_Louisville/MapServer" />
</esri:Map>
```

- Finally, add the 'load' property and set the extent of the map to the full extent of the Louisville map service.

```
<esri:ArcGISDynamicMapServiceLayer id="louisville"
  url="http://sampleserver1.arcgisonline.com/ArcGI
  load="{map.extent = louisville.fullExtent}" />
```

The 'load' property uses Flex binding to set the extent of the map to the full extent of the Louisville map service.

- File → Save
- Click the Run button to test your project



- You should see the map below.

