GeoRSS support for Bing Maps v7 AJAX control

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Plugin Overview

This plugin creates a class called **GeoRSSModule** which allows you to import GeoRSS files into Bing Maps. When creating an instance of this class you can set the default options for pushpins, polylines and polygons, such that all created shapes in that layer will use those options. In addition support for the “icon” tag was added so that custom pushpins will be rendered (these override default values). There is partial support for GML tags, however the data needs to be in WGS84 decimal degree format. The following tags are currently supported:

* georss:point
* georss:line
* georss:polygon
* georss:circle
* georss:where
* geo:lat
* geo:long
* geo:lon

Bing Maps does not have a circle shape class so I’ve created some tools that generate a polygon in the shape of a circle to support this functionality. For those who have not used this tag before you simple need to provide latitude, longitude and a radius in meters. Here is an example:

|  |
| --- |
| <georss:circle>42.943 -71.032 500</georss:circle> |

The following GML tags are also supported in addition to the above GeoRSS tags.

* gml:point
* gml:lineString
* gml:polygon
* gml:pos
* gml:coordinates
* gml:poslist
* gml:interior
* gml:exterior
* gml:linearring
* gml:outerboundaryis
* gml:innerboundaryis

As an addition I have also added the ability to get the bounding coordinates that encloses all the data in the GeoRSS feed, thus making it easier to zoom into the layer. In the sample code I mainly use xml files that are hosted in the same domain as the application. In order to access xml files from an external location you will need to create a proxy handler in order to bypass cross domain issues. I’ve provided a sample one in the example.

# Implementing this plugin

In order to implement this plugin you must first register and load it. To do this use the following code:

|  |
| --- |
| //Register and load the GeoRSS Module  Microsoft.Maps.registerModule("GeoRSSModule", "scripts/GeoRSSModule.js");  Microsoft.Maps.loadModule("GeoRSSModule"); |

Once the plugin is loaded you can use the GeoRSSModule to import GeoRSS files into Bing Maps. Here is a basic example of how to do this:

|  |
| --- |
| new GeoRSSModule().ImportGeoRSS(url, callback, options); |

The **GeoRSSModule** is being loaded without specifying any default values for. The **ImportGeoRSS** method takes in a URL to a GeoRSS file, a callback method, and a set of options for pushpins, polylines and ploygons. The callback method will take in an EntityCollection that contains all the data in the GeoRSS File and a LocationRect which is the bounds that enclose the data in the feed. You can then add this to the map in the callback or loop through all the items and add events as needed before adding them to the map. Here is an example callback method:

|  |
| --- |
| function GeoRSSImportedCallback(items, bounds) {  map.entities.push(items);  //Advance functionalities can be added here such as adding event handlers.  map.setView({ bounds: bounds });  } |

# ImportGeoRSS Options

|  |  |
| --- | --- |
| Name | Description |
| pushpinOptions | Default options for pushpins that are loaded through the feed. <http://msdn.microsoft.com/en-us/library/gg427629.aspx> |
| polylineOptions | Default options for polylines that are loaded through the feed.  <http://msdn.microsoft.com/en-us/library/gg427595.aspx> |
| polygonOptions | Default options for polygons that are loaded through the feed.  <http://msdn.microsoft.com/en-us/library/gg427596.aspx> |