

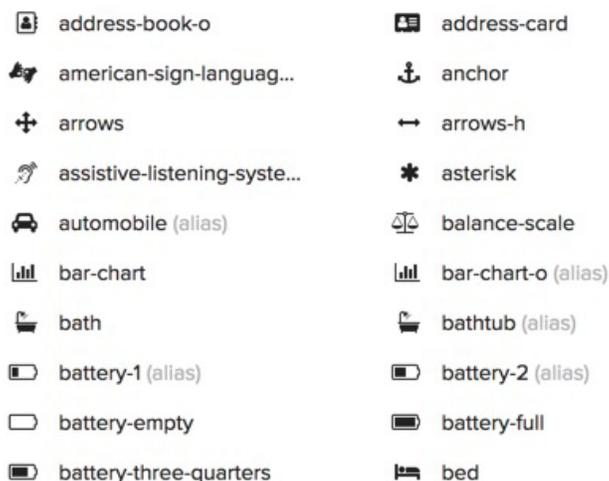
Mapping API's: Leaflet - Awesome Markers Plugin Using Font Awesome

Welcome to the Essential ArcGIS Task Sheet Series. This series supplements the Iowa State University Geospatial Technology Training Program short course series. The task sheets are designed to provide quick, easy instructions for performing mapping tasks.

The Leaflet.awesome-markers plugin (<http://github.com/lvoogdt/Leaflet.awesome-markers>) allows users to utilize the Glyphicons / IonIcons / Font-Awesome icons to “create colorful iconic and retina-proof markers” for Leaflet and acts as an alternative to creating custom image markers. This task sheet is the first of three, with other task sheets in Bootstrap and IonIcons. These all build upon the previous task sheets: *Mapping API's: Leaflet - Getting Started* **PM2082-14r**, *Mapping API's: Leaflet - Adding Markers* **PM20282-14s**, and *Mapping API's: Leaflet - Custom Image Markers* **PM2082-15e**. Please refer to those documents for the initial Leaflet map setup.

1. Leaflet - Aweome Markers Setup

- Download and save the file **customMarkersLeaflet.html** from <https://github.com/ISUEOGTP/GISTaskSheets> and save it in your project directory. Rename the file **awesomeMarkersLeaflet.html**.
- Download the Awesome Markers plugin from GitHub (<https://github.com/lvoogdt/Leaflet.awesome-markers>) and extract it to your server or local project directory. In this directory, you will find a directory named “dist.” Within this directory are the files **leaflet.awesome-markers.css** and **leaflet.awesome-markers.min.js** (or **leaflet.awesome-markers.js**) that you will be using.
- In the new **awesomeMarkersLeaflet.html** file, under the **leaflet.css** stylesheet link, add a link to the **leaflet.awesome-markers.css** file.
- Under the **leaflet.js <script>** link add a new link to the **leaflet.awesome-markers.min.js** file.



```
<link rel="stylesheet" href="https://unpkg.com/leaflet@1.2.0/dist/leaflet.css" />
<link rel="stylesheet" href="leaflet-awesome-markers/dist/leaflet.awesome-markers.css" />
<script src="https://unpkg.com/leaflet@1.2.0/dist/leaflet.js"></script>
<script src="leaflet-awesome-markers/dist/leaflet.awesome-markers.min.js"></script>
```

2. Select and Install Icons

- Add a link to the font-awesome CSS file before the Leaflet CSS file in the **<Head>**. *Note: You can use more than one library at a time.*

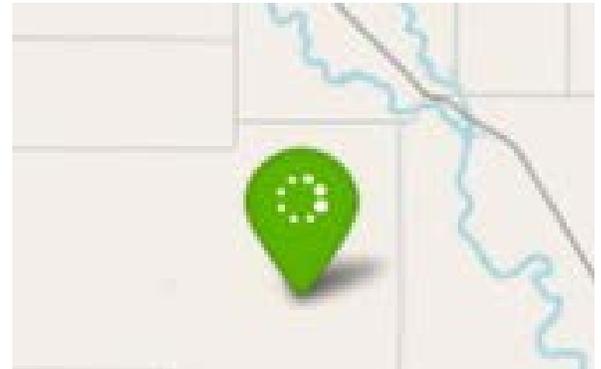
```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css" />
```

3. Adding Markers

- This tutorial will build off the code created for *Mapping APIs: Leaflet - Custom Image Markers* and will modify the code accordingly based on the icon selected. The code defining the **greenIcon** can be kept or deleted. It will not be used once the marker is changed to the new style.
- Go to <http://fontawesome.io/icons/> to explore the **Font Awesome** library. Decide on the icon you want to use and make note of its name. In the example to the right, the **spinner** icon is used and can be found in the library under **Web Application Icons**.
- Modify the existing **marker1** variable as it appears to the right. Note that the icon in this example is **spinner** and the prefix is **fa**. The prefix can be found in the library by clicking on the icon. The title is part of the **L.marker** class and can be optionally included following the icon attributes.
- The **markerColors** are limited to 'red', 'darkred', 'orange', 'green', 'darkgreen', 'blue', 'purple', 'darkpurple', 'cadetblue'. See note at the end of this task sheet for more color options.
- The color of the selected icon can be added by including the **iconColor** property and setting the color as 'white', 'black', or css code (hex, rgba, etc.)
- Additional classes can be added via the **extraClasses** property.
- Look at *Mapping APIs: Leaflet - Awesome Markers Using Bootstrap* to utilize **Bootstrap Glyphs** or *Mapping APIs: Leaflet - Awesome Markers Plugin Using IonIcons* to utilize **IonIcons**.

- ↓₉ sort-numeric-asc
- ⋮ spinner
- ★ star

```
var marker1 = L.marker([43, -93], {  
  icon: L.AwesomeMarkers.icon({  
    icon: 'spinner',  
    prefix: 'fa',  
    markerColor: 'green',  
    spin: true  
  }),  
  title: "highlight title",  
}).addTo(map);
```



Note: The *Leaflet.awesome-markers* used in this task sheet were developed by Lennard Voogdt. A forked version of this repository that adds additional colors ('white', 'lightred', 'beige', 'lightgreen', 'darkblue', 'lightblue', 'pink', 'gray', 'lightgray', 'black') and an option for square markers (className: 'awesome-marker awesome-marker-square') are available from <https://github.com/sigma-geosistemas/Leaflet.awesome-markers>.



Contact:

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