

ESRI Map

The ESRI Map component shows an interactive map from the [ArcGIS API for JavaScript](#) (version 4.9). It supports ArcGIS basemaps, a 3D view, custom vector tile styles, and layers that you insert into the map.

The map loads the ArcGIS API from js.arcgis.com, so the browser needs access to that site.

For a reference of all properties of the map and its layers, see [ESRI Map Properties](#).

Create an ESRI Map

To add an ESRI Map, select the stage or group where you want the map to reside and choose **Insert > Components > ESRI Map**.

The new map contains a sample [table](#) in its [dataflow](#) with latitude and longitude columns that you can use with the map's layers and groups.

To change what the map shows, select the map and use the **Map** section of the [Property Inspector](#):

- **Map Type** selects the ArcGIS basemap, for example Streets, Satellite, Topo, or Dark Gray Vector.
- **3D View** shows the map as a 3D globe (scene) instead of a flat map.
- **Latitude**, **Longitude**, and **Zoom** set the center and zoom level. They are updated when the user moves the map.
- **Min Zoom** and **Max Zoom** limit the zoom levels that the user can reach.

The current extent of the map is reflected in its `boundsNorth`, `boundsSouth`, `boundsEast` and `boundsWest` properties. To change the extent of the map, set these properties.

Styling an ESRI Map

Instead of a predefined basemap, you can use a custom vector tile style. Create the style with the [ArcGIS Vector Tile Style Editor](#), and then, in the [Advanced properties](#) of the map, either:

- set **mapStyleUrl** to the URL of the style, or
- paste the style JSON into **mapStyle**.

When either property is set, it replaces the basemap selected in **Map Type**. Clear both properties to use **Map Type** again.

The positions of the zoom, navigation and compass tools, and their distance from the map edges, are set by the `zoomToolPosition`, `navigationToolPosition`, `compassToolPosition` and `toolPadding*` properties.

Map Layers

To add layers to an ESRI Map, select the map and choose **Insert > Components**. The following types of layers can be added:

- **ESRI Map Group**: Places components or a symbol [repeater](#) at map coordinates, like the [Map Group](#) of the Google Map. It can animate the movement of repeater items when the data changes.
- **ESRI Map GeoJSON Layer**: Draws points or polygons from [GeoJSON](#) data.
- **ESRI Map Heatmap Layer**: Uses color coding to show the density and intensity of points in a table.

Show Markers with an ESRI Map Group

1. Create a [symbol](#) to use as the map marker.
2. Right-click the ESRI Map in the [Outline](#), and select **Insert > Components > ESRI Map Group**.
3. With the group selected, in the Property Inspector under **Repeater**:
 1. For **Symbol**, enter the name of the symbol.
 2. Bind the table that contains your coordinates to **Data**.
 3. For **Latitude Field** and **Longitude Field**, type the names of the table columns that contain this data.

To animate the markers when the coordinates change, set **animateIdValues** to TRUE in the Advanced properties of the group, and set **idField** to a table column that uniquely identifies each row.

Show a Heat Map

1. Right-click the ESRI Map in the Outline, and select **Insert > Components > ESRI Map Heatmap Layer**.
2. With the layer selected, in the Property Inspector under **Heat Map**:
 1. Bind the table to **Table**.
 2. For **Lat Field** and **Lng Field**, type the names of the coordinate columns.
 3. For **Intensity Field**, type the name of the column that contains the values.
 4. Adjust **Item Radius** and the **Fill** gradient. Optionally set **Data Min** and **Data Max** to use a fixed intensity range.

Show GeoJSON Data

1. Right-click the ESRI Map in the Outline, and select **Insert > Components > ESRI Map GeoJSON Layer**.
2. With the layer selected, in the Property Inspector under **GeoJSON**:
 1. Enter or bind the GeoJSON string to **Data**.
 2. Set **Layer Type** to **Circle** for point features or **Polygon** for area features.

3. Style the features with the fill, stroke, and circle properties.

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