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SG3

ScottGIS3 (SG3) is Scott County's new property information and mapping application. The following tutorial describes all tools and functionalities of SG3.

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Search Bar and Results

1. Search



The Search widget enables end users to find locations or search features on the map.

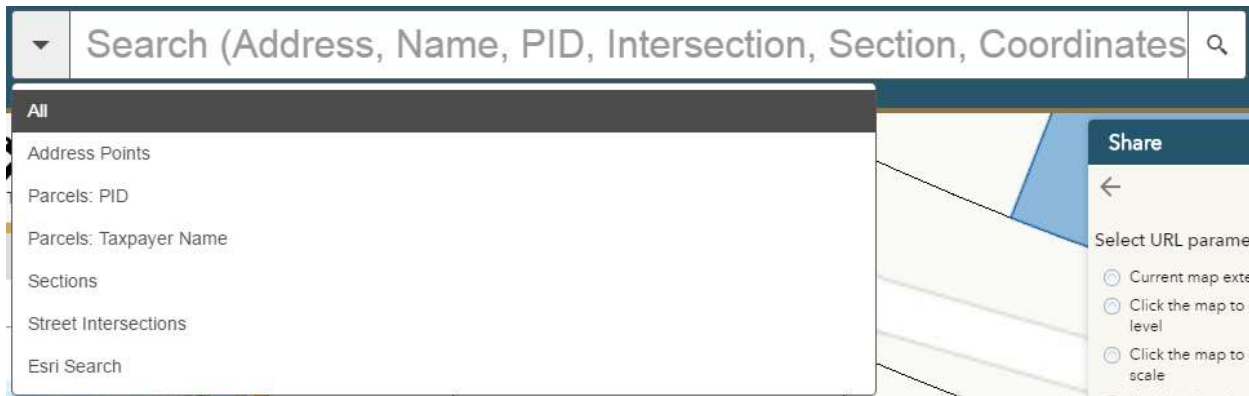
The following methods of finding a location are supported:

- Address
- Taxpayer Name (internal only)
- PID
- Intersection (Chatfield DR & Blakely TRL)
- Section (Section-Township-Range: 21-114-25)
- Coordinates (-93.4, 44.7)

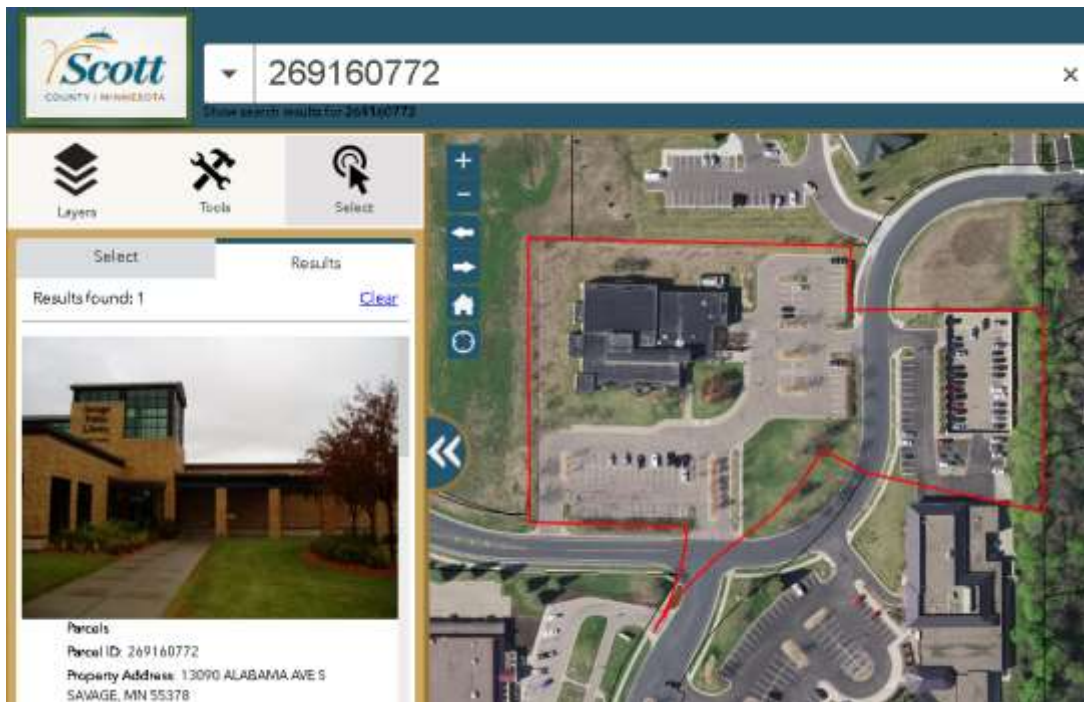
Using the Search widget

Steps:

- a) When you enter a place-name or a keyword in the search box, you see suggestions as you type. If you see an arrow in the search box, you can search on all sources, or click the arrow and choose a locator or layer from the drop-down list. As you type and see suggestions, select the suggestion that matches your search and the map will zoom to that location.



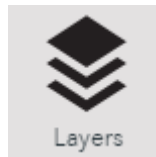
- b) Available attributes are shown in the Results tab and a pop-up appears at the location of the place-name or the feature and also displays any available attribute information.



- c) In the list of attribute information in the Results tab, a property photo will be shown. Click on the photo to view all available pictures of the property. If no pictures are available, No Image Available will be displayed.
- d) Scroll to the bottom of the attribute information.
- e) Click on [Property Report Card](#) to view a data sheet for the property.
- f) Click on [CRP Data on Property](#) to view CRP information.
- g) Click on [FEMA Flood Zones on Property](#) to view FEMA information.
- h) Click on [Soil Data on Property](#) to view Soil information.
- i) Click on [Wetland Data on Property](#) to view Wetland information.
- j) Click on [MLCCS Data on Property](#) to view MLCCS information.
- k) Click on [Hydric Soils Data on Property](#) to view Hydric Soils information.
- l) Click on [Land Record Documents](#) to view taxation and building information for the property.

Layers

2. Layers

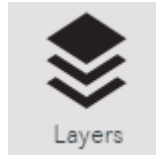


The Layer List widget provides a list of operational layers and their symbols, and allows you to turn individual layers on and off. Each layer in the list has a check box that allows you to easily control its visibility. Layers having expansion arrows indicate that they contain sublayers or subtypes.

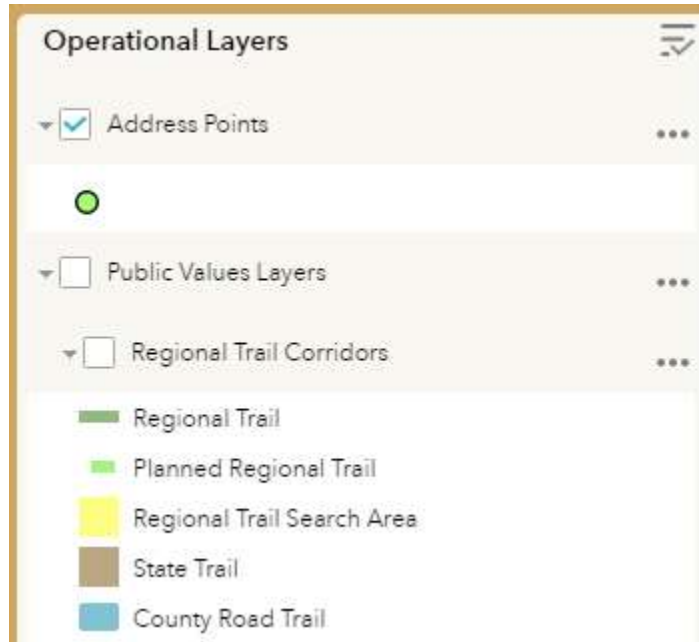
The order in which layers appear in this widget corresponds to the layer order in the map. This widget provides functionality allowing you to change the order of layers in the map.

Using the Layer List widget


Steps:

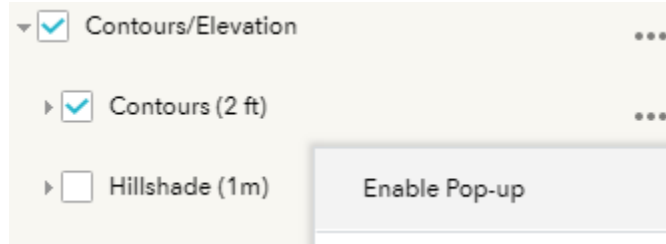


- a) Clicking the Layers widget in your app displays the layer list or table of contents window.
- b) Clicking on an individual layer shows its symbols/legend.



- c) Clicking the three dots on the right side of a layer displays the layer menu, which includes the following functions:
 - **Zoom To**—Sets the map extent to the extent of the layer.
 - **Transparency**—Sets the transparency for the layer.
 - **Enable Pop-up / Remove Pop-up**—Enables or disables the pop-up for the feature layer. If a feature layer does not have a pop-up configured in the map, clicking **Enable Pop-up** shows all field values for the feature layer.
 - **Move up**—Moves the layer one level up.
 - **Move down**—Moves the layer one level down.
 - **Open attribute table**—Opens the attribute table for the feature layer.
 - **Description / Show Item Details**—Opens the service description or the item details page for the service or the item associated with the layer, if available.

- d) The  icon on the upper right, next to **Operational Layers**, controls the behavior of all of the layers in the list. Click the icon to open the menu, which allows you turn on or off all the layers, or expand or collapse all the layers. Alternatively, you can use keyboard shortcuts to do so. Press Ctrl and click the check box of the layer to turn on or off the layers in the same level. Press Ctrl and click the arrow to expand or collapse layers in the same level.
- e) Layers are grayed out in the list when zoomed out of their visible ranges.
- f) Clicking the **X** button in the upper right corner of the **LayerList** window closes it.
- g) Enable Popups for a layer. To turn on pop-ups for the Contours layer, click on the 3 ellipsis button next to the layer name and select Enable Pop-up.



Now click on any contour on the map and you will see a pop-up window with contour information.



Map Items

3. Zoom Slider

The Zoom Slider widget provides interactive zoom controls in the map display.

Using the Zoom Slider widget

- a) Click the plus or minus button to zoom in or out on the map.

4. Zoom to Previous/Next

The Zoom to Previous button returns you to the previous extent of the map that you were zoomed to.

The Zoom to Next button goes forward again through the sequence of extents that you have been viewing on the map.

5. Home Button

Returns map to the full extent of the county.

6. My Location Button

If using a mobile device, the My Location button will zoom the map to your current location.


7. Coordinate Widget

The Coordinate widget displays x and y coordinate values on the map. With the default coordinate system of the web map, the coordinate values change dynamically when the mouse pointer moves to different locations on the map.

Using the Coordinate widget

The coordinates will change accordingly when you move the mouse pointer on the map.

For mobile devices, the widget only displays the coordinates of map center.




Click  to enable clicking the map to get coordinates. In this way, you can add a point on the map, highlight the coordinates, and make a copy of them.

8. Overview Map

The Overview Map widget displays the current extent of the map within the context of a larger area and updates whenever the map extent changes. The current extent of the map is represented in the overview map as a grey rectangle that can be dragged to modify the extent of the current view. You can expand or fold the widget. When the widget is expanded, you can also maximize or minimize it.

Using the Overview Map widget

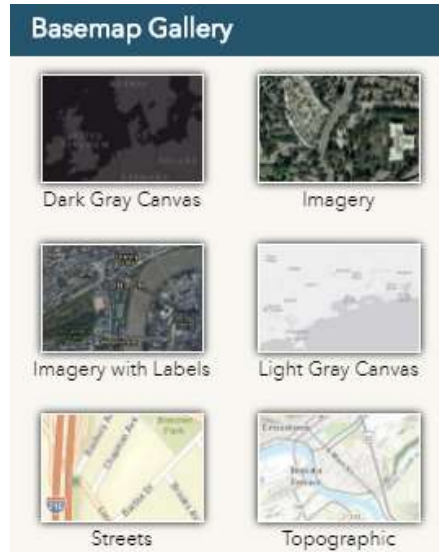
Steps:

- Click the expansion arrow  at the bottom right corner of the map to expand or fold the widget.
- When expanded, drag the grey box to zoom to a new extent.
- Click the maximize icon  to temporarily maximize the overview map for quick access to far away areas of interest.
- To exit the temporary view, click the maximize icon  again or drag the grey rectangle to your destination and release.

9. Basemaps



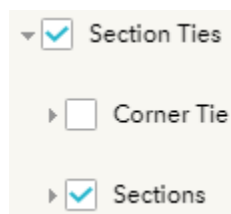
Displays a list of available basemaps. Click on one of the basemaps to view a basemap on your map.



10. Half Section Maps

To view Half Section Maps, search for, or select, a section.

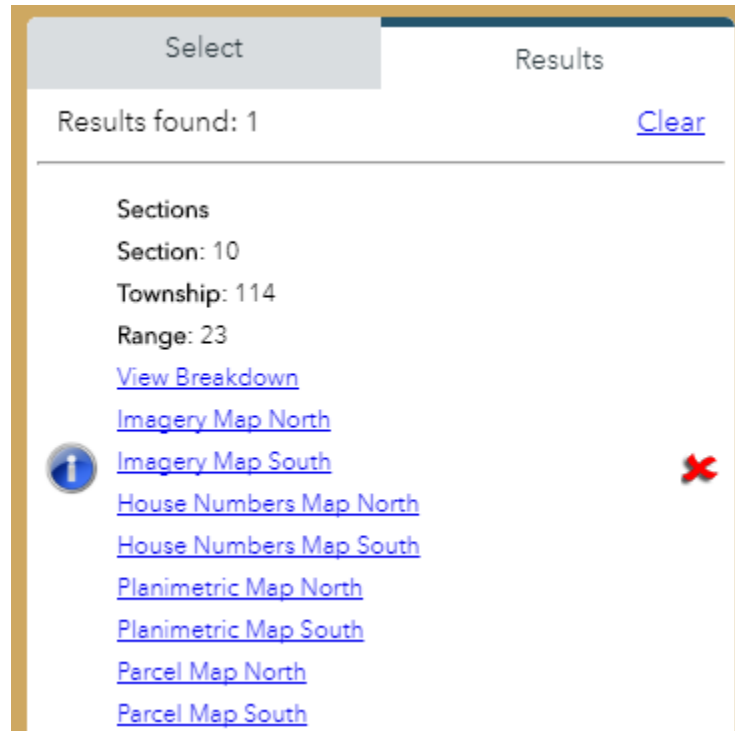
- a) To search for a section, begin typing in the Section-Township-Range in the Search Bar. Once you see the Section-Township-Range you are interested in, select it from the list of available sections and the map will zoom to that section.
- b) To select a section:
 - i. Hit the Layers button and check on Section Ties and Sections



- ii. Hit the Select and Results button and then select the Point Tool
 - iii. Click on the parcel that you are interested in.



Section Information will now be displayed on the left, along with links to Half Section Maps.



Click the 'Access Half Section Maps' thumbnail below to view a demonstration:



Select and Results



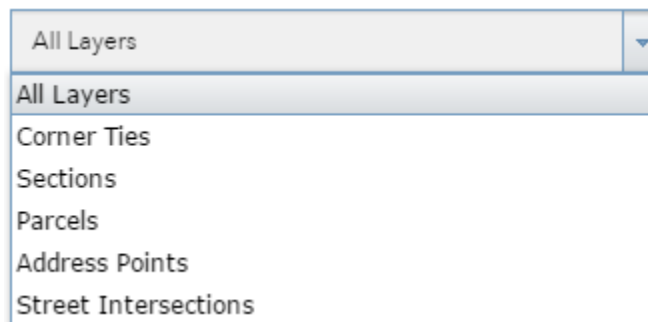
The Interactive Search Widget serves as a means to retrieve attributes for the identified features in your map. By drawing a geometry type (point, line, polygon, etc...) using the Interactive Search Widget the underlying features in the map that intersect the drawn geometry will be identified and the results displayed in the Results tab.


Click the 'Select A Parcel' thumbnail below to view a demonstration:









Using the Select and Results widget

- Leave 'All Layers' in the dropdown to select from all selectable layers. To only select from one layer, select a layer in the dropdown.



- Click on the Point tool  under the Search tab and then click on any selectable feature (Corner Ties, Sections, Parcels, Address Points, and Street Intersections).

The feature will be selected and the associated attribute information will be displayed in the Results tab.

- c) Click on the Polyline tool . Click once to begin drawing your line. Click to continue drawing your line. Double-click to finish drawing line. The features you drew a line over will be selected and the attribute information for all of the selected features will be displayed in the Results tab. Each result will have a  allowing you to remove unwanted results from the results list. Click on the attributes of a single feature in the results list to zoom to that feature.
- d) Click on the Freehand Polyline tool . Press down on left mouse button, trace over the features you want to select, and then release mouse button to select multiple features.
- e) Click on the Rectangle tool . Press down on mouse button, draw a rectangle, release mouse button to select multiple features.
- f) Click on the Polygon tool . Click once to begin polygon, continue clicking to draw a polygon, double-click to finish polygon and select multiple features.
- g) Click on the Freehand Polygon tool . Press down to start, draw a polygon, release mouse to finish polygon and select multiple features.

Tools

12.Draw



The Draw widget enables end users to draw basic graphics and text onto the map. It provides basic sketching and redlining functionality for the web application. It also displays some measurements (if configured) for drawn features, such as lengths for lines, and areas and/or perimeters for polygons. When the widget initially activates, a dialog box shows containing 11 feature creation tools. From left to right, they are as follows:

-Point -Line -Polyline -Freehand Line

-Triangle -Rectangle -Circle -Ellipse

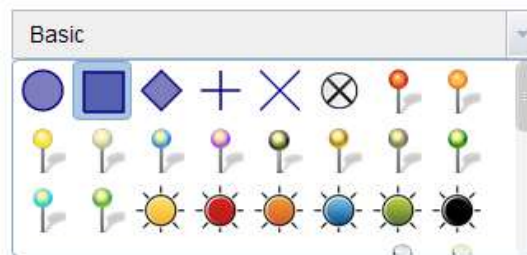
-Polygon -Freehand Polygon -Text



Using the Draw widget

Steps:

- a) Select the desired drawing mode by clicking the symbol type.
- b) Optionally, change the symbol for the feature using the symbol picker in the Draw widget.
 - i. For point symbols, select the marker category (different symbols are available in each category), size, color, transparency, outline color, and outline width of the symbol. Only the size is available for the picture marker symbols.



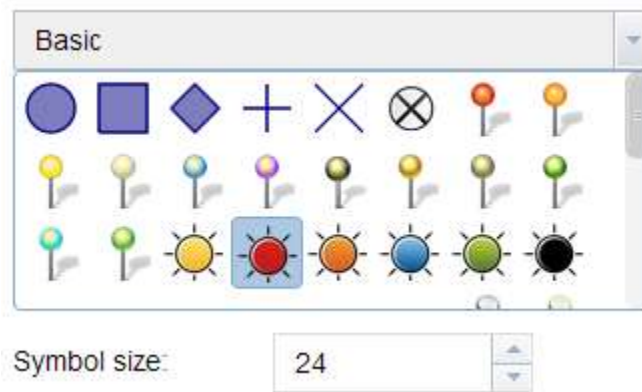
Symbol size:

Color:

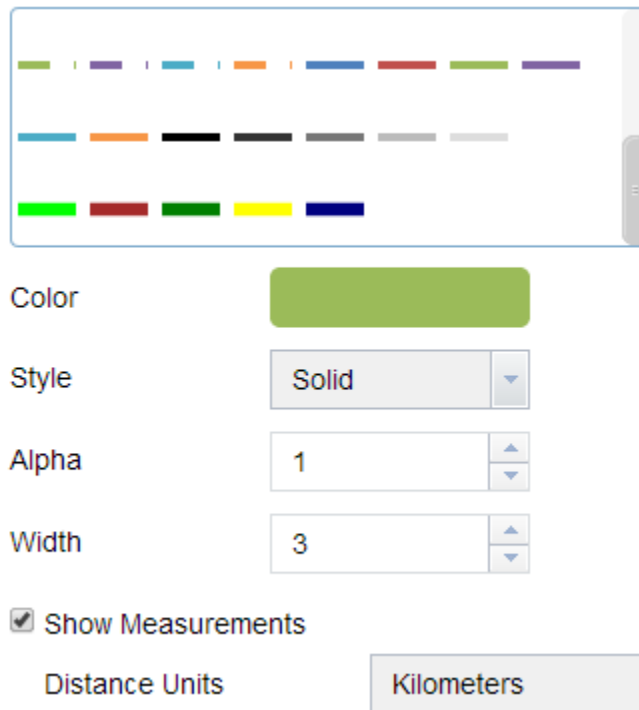
Alpha:

Outline color:

Outline width:



- ii. For line symbols, select a pre-defined symbol from the box. You may also customize the color, style, transparency, and width of the symbol. Click Show Measurements and select the Distance Units to display the measurement with the line.



- iii. For polygon symbols, select a pre-defined symbol from the box. You may also customize the fill color, transparency, outline color, and outline width of the symbol. Click Show Measurements and select the Area Units and Distance Units to display the measurement with the polygon.



Color

Alpha

Outline color

Outline width

Show Measurements

Area Units

Distance Units

iv. For text symbols, enter the Text to be drawn, and select a font color and size for the symbol.

Text

Font color

Font size

- c) Draw features and texts on the map.
- d) Click Undo or Redo to undo or redo the drawing features. Click Clear to remove all of them.

13.Measure



Measure

An interactive tool for showing segment measurements

The Measurement widget allows the user to measure the area of a polygon or the length of a line.

Click here for detailed instructions on how to use the [Measure widget](#).

Click the 'Measure Distance and Area' thumbnail below to view a demonstration:



14.Mailing Labels



Mailing Labels

A widget for buffering features and generating mailing labels from the results.

There are two methods of creating mailing labels. You can either select parcels using a shape (point, line, polygon, etc...) or you can draw a graphic (point line polygon) and then create a buffer around that graphic to select parcels. Choose one of the methods from the dropdown, and then click a method of selecting Address Points (ie. Point, Line, Polygon, etc...). Optionally set a buffer distance to buffer your selection. Check Property Owners or Property Occupants depending on who you want to create mailing labels for. Choose how you want to format the export. Click the Download button.

Click the 'Create Mailing Labels' thumbnail below to view a demonstration:

SG3 How To...

Create Mailing Labels



15. Pictometry



Pictometry
Pictometry allows users to view overhead and oblique imagery of Scott County.

Click the Select button and click anywhere on the map to see oblique imagery for that location.

16. Bookmarks



Bookmarks
Quickly zoom to Scott County cities and townships or create your own map bookmarks.

The Bookmark widget stores a collection of map view extents (that is, spatial bookmarks) displayed in the app. It also allows you to create and add your spatial bookmarks through configuration or at run time after the app starts. In addition, if there are any existing bookmarks defined for the web map used in the app, they are used automatically.

Using the Bookmark widget

Clicking the Bookmark widget displays all pre-defined bookmarks, including bookmarks specified using the widget configuration window, as well as bookmarks defined in the web map used in the app. Clicking one of the bookmark thumbnails in the list sets the map extent to the bookmark area. You can also add additional bookmarks by zooming to your desired location and clicking the + icon next to the text box. To delete a bookmark defined at run time or configured using the widget configuration window, click the bookmark icon to highlight it first, and click the **Delete** button to delete it. If the bookmark is inherited from the web map, the **Delete** button is unavailable.



Clicking the X button in the upper right corner of the Bookmark window closes the bookmark window.

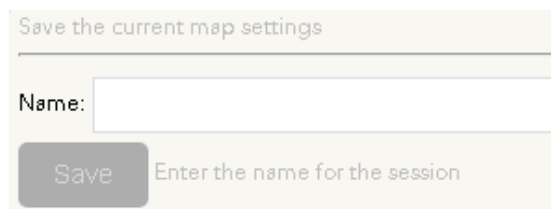
17. My Custom Maps



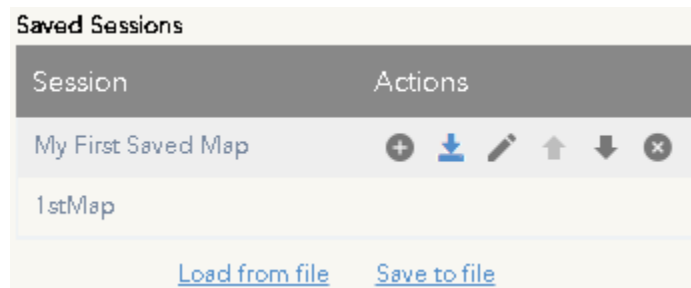
The My Custom Maps widget saves your current map settings, including visible layers, map extent, and annotations. This widget allows you to return to your custom maps anytime you use SG3.





Using the My Custom Maps widget

Clicking the My Custom Maps widget gives you the option to save your current map settings.



Previously saved maps will be listed under Saved Sessions.



There are several actions that you can perform on each saved map.  will load a previously saved map.  allows you to rename a previously saved map.  allows you to reorder the list of your saved maps.  deletes a saved map.

Saved maps are saved in your browsers cache. If you clear your browsers cache, you will lose your saved maps. To compensate for this issue, [Save to file](#) allows you to save your saved maps to a single configuration file. After you have cleared your browsers cache, you can restore your saved maps from a saved configuration file using this option [Load from file](#).

18. Print

- Enter a title for the map in the **Map Title** text box.
- Select the applicable **Layout** and **Format** for the exported map.


Note:

The MAP_ONLY format prints only the map, omitting any attribute information from the output.


- Click **Advanced** to open a menu with advanced print options.



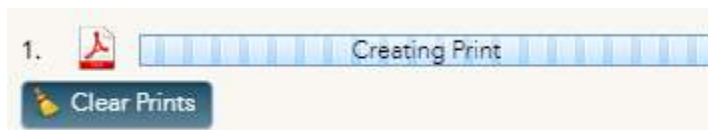
- d) The **Map scale/extent** section defines the method that the print service should use to calculate the printed extent of the map. Preserving **map scale** may cause the printed map to maintain its scale while recalculating the extent around the existing center point, while preserving the **map extent** may cause the scale to adjust to fit the current map extent into the printed map. You may also force a specific scale by checking the **Force scale** option and entering a scale. Click **current** to populate the value with the present scale of the map.
- e) The **Layout metadata** allows you to override the default values set by the configuration. Enter values for the **Author** and **Copyright** fields to provide current information to the print service. Check the **Include legend** check box to display the legend on the printed map.

 **Note:** The Print widget supports custom text elements in the printing service published from ArcGIS Server 10.4. The layout options display based on the templates metadata.

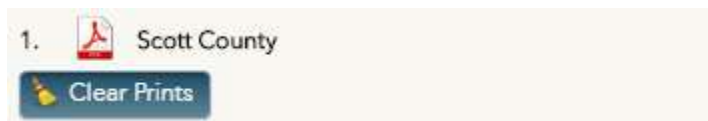
- f) If the MAP_ONLY format is selected, you may provide dimensions for the **Width** and **Height** in pixels. Otherwise, these values are ignored.
- g) The **Print quality** section allows you to update the resolution of the printed map. Provide an updated value for the **DPI** (dots per inch) in the text box.

 **Note:** The widget supports custom text element as layout metadata if the custom task is named as Get Layout Templates Info.

- h) After all options have been set with the applicable values, click **Print** to submit all information to the print service. A progress bar displays next to the executing task.



- i) Upon the completion of the print job, a link to the print output displays. Click the task to open the file in a new window.




- j) Click **Clear Prints** to clear the print history.

19. Share

The Share widget allows you to share an app by posting it to your social media account, sending an email with a link, or embedding it in a website or blog. It also provides an easy way to define URL parameters for the app.

Using the Share widget

Steps:

- a) Click the Share widget icon  to open it.
- b) Copy the short link under Share a link to this app and paste it into your email, instant message, and so on. You can also use the provided buttons to post your app to your Facebook, Twitter, or Google accounts, or in an email.
- c) Optionally click Link Options to easily define URL parameters included in the short link. See [Use URL parameters](#)
 - i. Check the radio button or check box to add a URL parameter from the following options. You can preview the URL change in the Link preview box.
 - Current map extent—This is used by default.
 - Click the map to define the center of the map with zoom level—A point icon shows under the option when it is checked. Click the icon and click where you want the map to center in the app. A point marker will be added on the map and the URL in the link preview will be updated accordingly based on the map zoom level.
 - Click the map to define the center of the map with map scale—A point icon shows under the option when it is checked. Click the icon and click where you want the map to center in the app. A point marker will be added on the map and the URL in the link preview will be updated accordingly based on the map scale.
 - Find the location or feature and zoom to it—Input a location in the box, such as Redlands, ca, 92373, or a feature in a searchable layer.
 - Query a feature and zoom to it—Choose a layer, a field and a value from the drop-down menus to query a feature and zoom to it.
 - Add a marker on the map—Click the point icon and click where you want to add a marker in the map. Fill in the WKID, Pop-up title, Symbol, and Label properties in each text box.
 - Overwrite default screen size of mobile layout—Input the screen size in pixels. By default, when either the height or width of a

screen display is less than 600 pixels, the mobile layout automatically applies.

- Set display language of the app—Choose a language from the drop-down menu.
 - Authenticate a user automatically—Input a token. By default, your log in credentials display in the text box when the option is checked.
- ii. Click -> to return to the main panel. The short link should be updated to reflect the URL change made in the step above.
- d) Under Embed this app in a website, copy the HTML code and paste it into your website. If you want, click Embed Options to choose the size of your app to be embedded.