cyclomedia

Installation manual Street Smart Widget for ArcGIS

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1. Street Smart™ Widget for ArcGIS

1.1 Introduction

Street Smart™ Widget for ArcGIS by CycloMedia is a widget to view GeoCycloramas in Web Apps made with the Web AppBuilder. This widget works with Web AppBuilder version 2.0 and up. Please note that the Street Smart™ Widget for ArcGIS can only be purchased by an ArcGIS user with an Administrator role.

1.2 Download

Before you start, make sure to have the Web AppBuilder for ArcGIS (Developer Edition) installed. Otherwise, follow the steps in Appendix A - Installing the Web AppBuilder for ArcGIS. If you are using ArcGIS Enterprise you don't need the Developer Edition, go to paragraph 1.4. To obtain the Street Smart™ Widget for ArcGIS, follow the steps below:

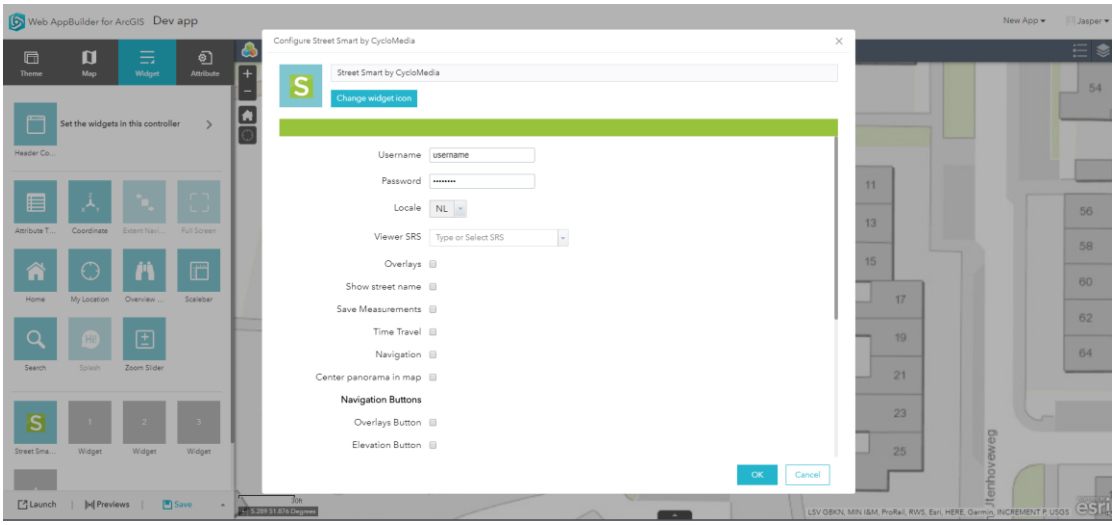
- Go to the ArcGIS Marketplace and search for "Street Smart Widget". Be sure to check you select the widget and not the Street Smart for ArcGIS Online App;
- Obtain the Street Smart™ Widget for ArcGIS. You will be taken to the Console page where you can click the download button to download the widget file (a zipped folder).

1.3 Installation in the Web AppBuilder

After downloading the widget file, follow the instructions below to install the Street Smart™ Widget for ArcGIS.

- Unzip and paste the folder to the location %Web AppBuilder%\client\stemapp\widgets.
- Please make sure that the folder structure is as follows: \widgets\StreetSmart\<widget parts>; no extra Street Smart folder is allowed;
- Start the Web AppBuilder from the local folder using the startup.bat file (if on a Mac, open a terminal in the server folder inside the Web AppBuilder folder and run the command "node server.js");
- After completing the previous step, you either create a new app or use the widget in an already existing app. Note that this widget works only for 2D as the version 2.x also has an option of 3D.
- Open the Web AppBuilder by either creating a new app ('Create New'), or import ('Import') or edit an existing Web App;
- The Web AppBuilder offers different layouts or themes to style Web Apps. Recommended themes are themes with a 'pop up' window for the widget. The Dart Theme is not working well due to color settings;

- Now, the Street Smart™ Widget for ArcGIS can be found or searched for by adding a new widget. Go to the tab ‘Widget’ and click one of the numbered boxes. A new menu is opened where the widget can be found and added to the Web App;
- Credentials are needed to allow users to view GeoCyloramas in the widget. Credentials can be set in the settings page of the widget as shown below;



- On this page, the localization setting also needs to be set before using the widget. Options currently available are “USA”, “EN”, “NL”, “DE”, and “FR”;
- Search or select the spatial reference system (SRS) of the Street Smart™ Widget for ArcGIS. Note that overlays should have the same SRS in order to be visible in the widget (this includes custom overlays added by users);
- Overlays are supported in the widget, but they are optional. If checked all visible point, line and polygon layers will be drawn on the GeoCyclorama image.
- Enable “Show street name”, to display the address of the GeoCyclorama in the top of the view.
- “Save Measurements” allows the user to save measurement to a Feature layer within the selected web map. All editable Feature Layers are displayed, in the overview. Enabling this feature prevents the measuring of Height, or Orthogonal, since these can not be stored in Feature Layers.
- Time Travel can be checked to allow the user to open older or more recent imagery of the current location. Not all areas are recorded multiple times, so this feature might not do anything depending on where the user is using the GeoCycloramas.
- The Navigation, if checked, shows the recording locations for the GeoCyclorama images as an overlay on the map. Clicking a recording location will open the image for that location.

- “Center panorama in map” links the movement of the GeoCyclorama to the map. If checked, panning the map will open the GeoCyclorama at the center of the map. Clicking a recording point on the map will cause the map to pan so that recording point is in the center of the map.
- Navigation Buttons can each be enabled separately from each other. Each has its own purpose within the application
    - Overlays, allows the user to change what overlays are visible in the GeoCyclorama. This includes setting visibility of the Recordings and CurfaceCursor.
    - Elevation, if checked, a button is added to the widget that allows the user to shade the GeoCyclorama image by elevation. This tool is commonly used to visualize flooding and drainage. The login used in the widget must be licensed for this tool.
    - Report, if checked, a button is added to the widget that allows the user to report missing privacy blurring of faces or license plates.
    - Measurement allows the user to start a measurement. Without this button the Save measurements feature doesn’t work. If checked and Save Measurements is NOT enabled, adds a measurement button that allows the user to measure with the location (shows coordinates of point), distance (line or length), surface (area or polygon), orthogonal (right angle), and height tools. Measurements made with this button are not saved.
    - Save image, if checked, adds a button to the widget that lets the user download a snapshot of the current view in the widget as an image in PNG format.
    - Image Information, if checked, adds a button to the widget that lets the user view metadata for the image.
    - Zoom-in/out, allows the user to zoom in the GeoCyclorama without the usage of a scroll wheel on a mouse, or two finger drag on a touchpad.
- You have to agree to the terms and conditions of CycloMedia before finishing the configuration.

1.4 Installation in ArcGIS Enterprise

Another way to create and launch Web Apps is by using ArcGIS Enterprise. Integrated in Portal (Enterprise) is the Web AppBuilder that can be used in a similar way as described above. Through ArcGIS Portal, Web Apps can be accessed and launched with the App Launcher. Web Apps built externally with the Web AppBuilder can also be launched. By using ArcGIS Enterprise, Web Apps can be published within an organization.
See the how to install the widget in ArcGIS Enterprise:
https://enterprise.arcgis.com/en/portal/latest/use/add-custom-widgets.htm

1.5 Using the Widget

From the Web AppBuilder environment, an app containing the widget can be created, launched and downloaded:

- Go to a location where GeoCycloramas are available and zoom to street level;
- Open the Street Smart™ Widget for ArcGIS by clicking on the 'Street Smart' icon. Recording dots appear on the map, indicating recording locations of GeoCycloramas. By default, the GeoCyclorama in the center of the screen is opened;
- Now you can zoom and pan around or click on one of the recording dots on the map or in the GeoCycloramas to navigate from GeoCyclorama to GeoCyclorama.

For further information, see the User Manual for the Street Smart™ Widget for ArcGIS.

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Appendix A - Installing the Web AppBuilder for ArcGIS

Introduction

The Web AppBuilder for ArcGIS allows the user to create custom widgets and apps based on ArcGIS services that work on multiple platforms. An extended installation guide can also be found on developers.arcgis.com.

Download

- Go to ArcGIS for Developers and click the button 'Download SDK';
- Extract the zipped file to a folder on your computer (to a location of your own preference).

Installation

- Go to the folder and open the 'startup' batch file (if on a Mac, open a terminal in the server folder inside the Web AppBuilder folder and run the command "node server.js");
- A Command Prompt window should open, along with a new window in the default web browser directed to 'http://[your machine name]:3344/webappbuilder';
- The window asks to set a 'Portal URL'. This is a link to either your ArcGIS Online organization webpage or Portal for ArcGIS page. Click 'Continue';
- You are prompted for an App ID. This is an ID for the Web AppBuilder registered in the Portal specified in the previous step. To obtain an App ID for the Web AppBuilder, follow the steps below;
    - Open a new window or tab and go to the Developers Portal to register a new application;
    - In the form, fill in the title of the app and appropriate tags. Click 'Register New Application';
    - On the next page, a Client ID is displayed which is equal to the App ID;
- Go back to the Web AppBuilder window and fill in this ID in the App ID field;
- Once again, go back to the Developers Portal window and go to the tab 'Authentication'. Scroll down to the section 'Redirect URI' and paste the URL 'http://[yourmachinename]' into this field as a valid redirect link;
- Now, go back to the Web AppBuilder window and click 'Continue';
- On the next page, you get a 'Request for Permission', click 'Approve';

- On the last page, you find the homepage of the Web AppBuilder for ArcGIS where you can click ‘Create New’ or ‘Import’ to start building or editing an app.

Note: once the Web AppBuilder for ArcGIS is set up, you can reopen the Web AppBuilder by running the batch file. This will not always automatically open a new window in your default browser. Instead, open a new window or tab in the browser and go to the link ‘http://[your machine name]:3344/webappbuilder/’ to go to the Web AppBuilder environment.