

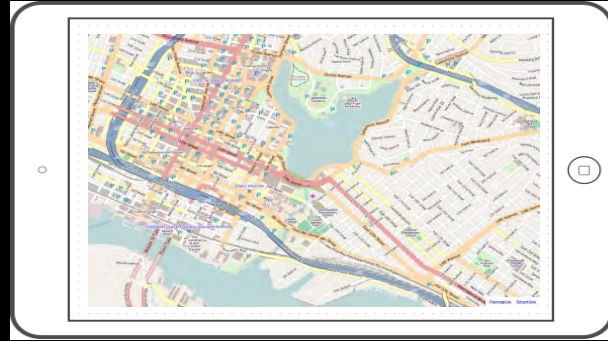
Visualizing Your Data in



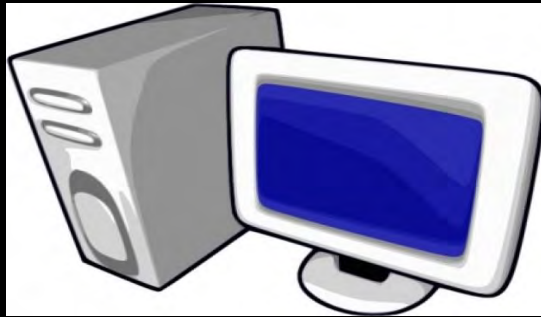
Kurt Menke, GISP, Bird's Eye View



The Community Health Mapping Workflow



Tablet/Smart Phone
with apps



Computer → GIS

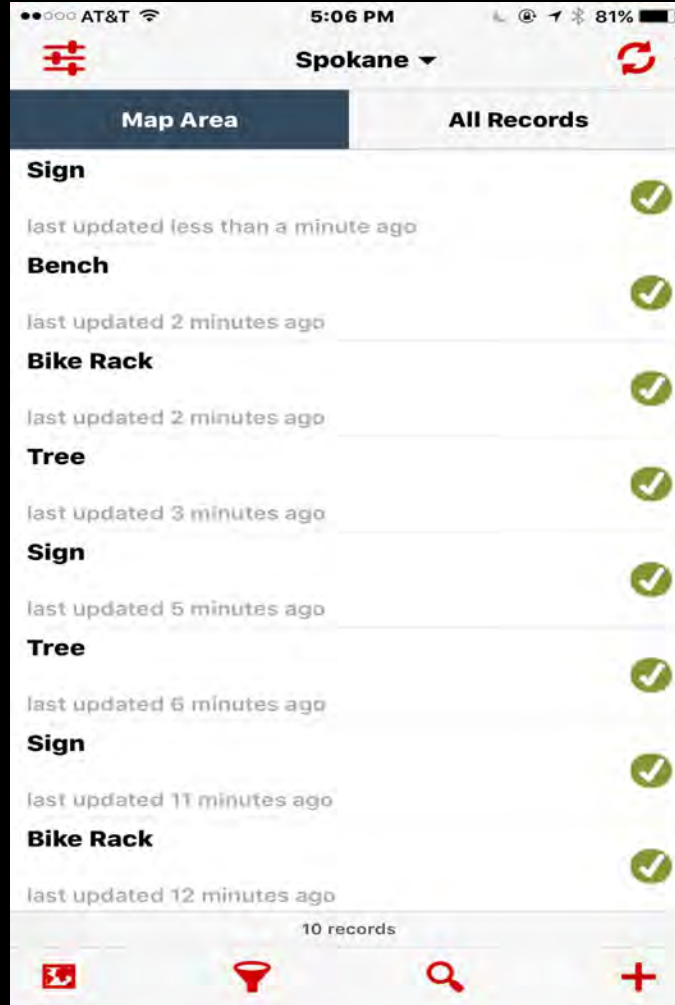


Web Mapping

Web Mapping Workflow

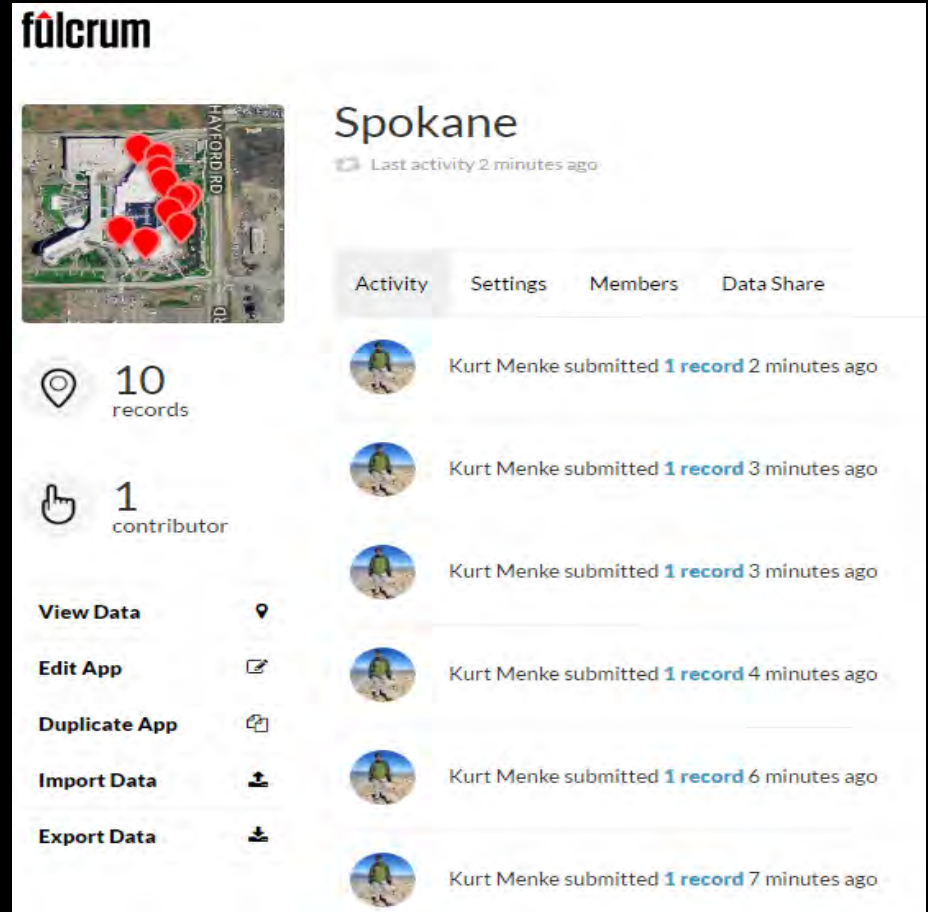
- Login
- Upload Your Data
- Style Your Data
- Create Your Visualization
- Share Your Map

Sync Your Data




Login to FulcrumApp.com

- Open your App
- Your data

The screenshot shows the Fulcrum app interface for a location named 'Spokane'. At the top left is the 'fulcrum' logo. Below it is a satellite map view of a building complex with several red location pins. To the right of the map, the text 'Spokane' is displayed, followed by 'Last activity 2 minutes ago'. Below the map, there are two summary cards: one with a location pin icon and '10 records', and another with a hand cursor icon and '1 contributor'. On the left side, there is a vertical menu with options: 'View Data' (with a location pin icon), 'Edit App' (with a pencil icon), 'Duplicate App' (with a document icon), 'Import Data' (with a download icon), and 'Export Data' (with a download icon). On the right side, there is an 'Activity' tab selected, showing a list of recent submissions by 'Kurt Menke', each with a profile picture, a '1 record' count, and a timestamp (e.g., '2 minutes ago', '3 minutes ago', etc.).

App Settings

fūlcrum Bird's Eye View



Spokane

Last activity 2 minutes ago

Activity **Settings** Members Data Share

Name *
Spokane

Description

Status
Active

Inactive apps are not accessible from the mobile device and are used for archiving purposes.

Icon
It's best to upload a JPEG or PNG that's at least 512x512. Images will be cropped to a square.
[+ Add Icon](#)

Auto Assign Records
 Enabling auto assignment will assign records to the user that creates them.
 Enable this setting if you want your field users to only see their own records.

Hidden on Dashboard
 Check this box to make this app hidden on the mobile app dashboard. This is useful for apps that contain reference data to be used with Record Link fields. For example, if one of your apps contains products or parts and it's only used from a Record Link field, you can hide that app using this setting and the app is only accessible through the Record Link field.

[Save Changes](#)

Share App Template
The recipient will only see the app's structure, not any data collected with the app. [Share Template](#)

Delete This App
All of the records in this app will be lost. We recommend [exporting your records](#) before you do this. [Delete App](#)

Downloading Data

- Export Data

fulcrum

Spokane
Last activity 2 minutes ago

Activity Settings Members Data Share

Name *
Spokane

Description

Status
Active

Inactive apps are not accessible from the mobile device and are

Icon
It's best to upload a JPEG or PNG that's at least 512x512. Image
[+ Add Icon](#)

10 records
1 contributor

View Data

Edit App

Duplicate App

Import Data

Export Data

Export Wizard

- File Format:
- All the common GIS formats
- Choose ESRI Shapefile



The screenshot shows the Fulcrum Export Wizard interface. At the top, it says "fulcrum" and "Export Wizard". Below that, a blue banner indicates "With your current filters, the export will contain 10 record(s)". The main form has several sections:

- File Format:** A dropdown menu with "ESRI Shapefile (.shp)" selected and highlighted by a red box.
- Date Range:** A dropdown menu with "Mobile Device Created Time" selected.
- Date Time Zone:** A dropdown menu with "(GMT+00:00) UTC" selected.
- Area Filter:** A button labeled "Select Area".
- Include Photos:** An unchecked checkbox.
- Include PDF Reports:** An unchecked checkbox.
- Include GPS Data:** A checked checkbox.

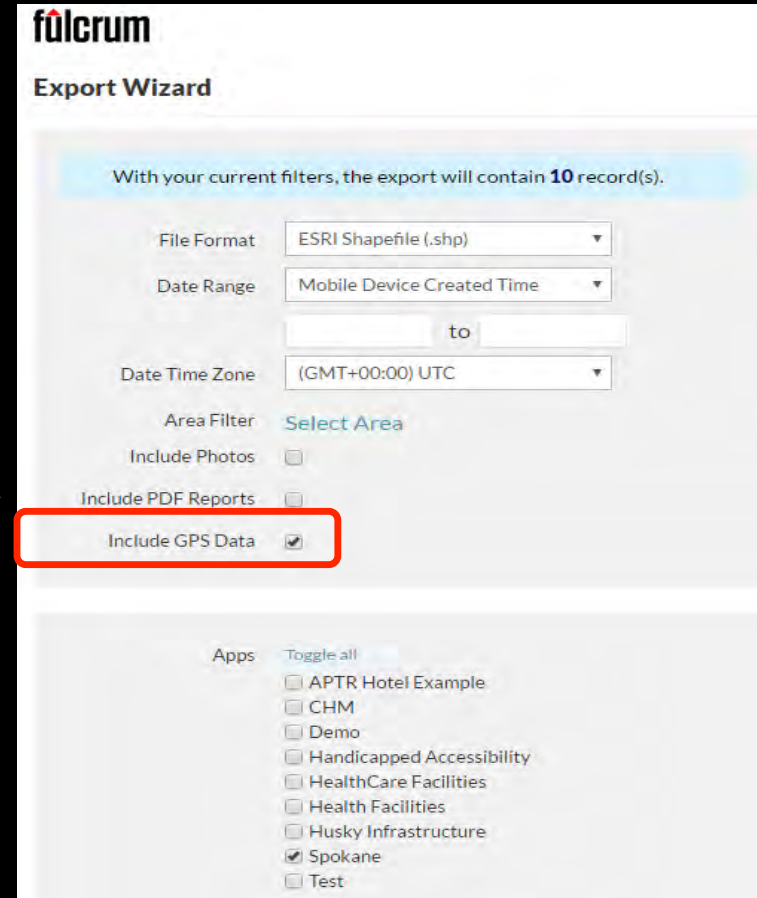
At the bottom, there is a section for "Apps" with a "Toggle all" button and a list of app names with checkboxes:

- APTR Hotel Example
- CHM
- Demo
- Handicapped Accessibility
- HealthCare Facilities
- Health Facilities
- Husky Infrastructure
- Spokane
- Test

Export Wizard

Check

- Include GPS Data (horizontal accuracy etc.)



fulcrum

Export Wizard

With your current filters, the export will contain **10** record(s).

File Format:

Date Range: to

Date Time Zone:

Area Filter: [Select Area](#)

Include Photos:

Include PDF Reports:

Include GPS Data:

Apps: [Toggle all](#)

- APTR Hotel Example
- CHM
- Demo
- Handicapped Accessibility
- HealthCare Facilities
- Health Facilities
- Husky Infrastructure
- Spokane
- Test

Click Next

With your current filters, the export will contain **10** record(s).

File Format: ESRI Shapefile (.shp) ▼

Date Range: Mobile Device Created Time ▼

to

Date Time Zone: (GMT+00:00) UTC ▼

Area Filter: [Select Area](#)

Include Photos:

Include PDF Reports:

Include GPS Data:

Apps: [Toggle all](#)

- APTR Hotel Example
- CHM
- Demo
- Handicapped Accessibility
- HealthCare Facilities
- Health Facilities
- Husky Infrastructure
- Spokane
- Test

Cancel | **Next**

Confirm and Finish

fulcrum

Bird's Eye View ▾

Export Wizard

Please confirm the following settings for exporting your data. Your data export will take some time to process and will be available for download once it is completed.

Apps: Spokane

Export format: ESRI Shapefile (.shp)

Timezone for exported dates: (GMT+00:00) UTC

Exporting photos: No

Number of records to be exported: 10

Back

Finish

Wait for Export to Finish and Download

fulcrum Bird's Eye View

Data Export [Start Export Wizard](#)

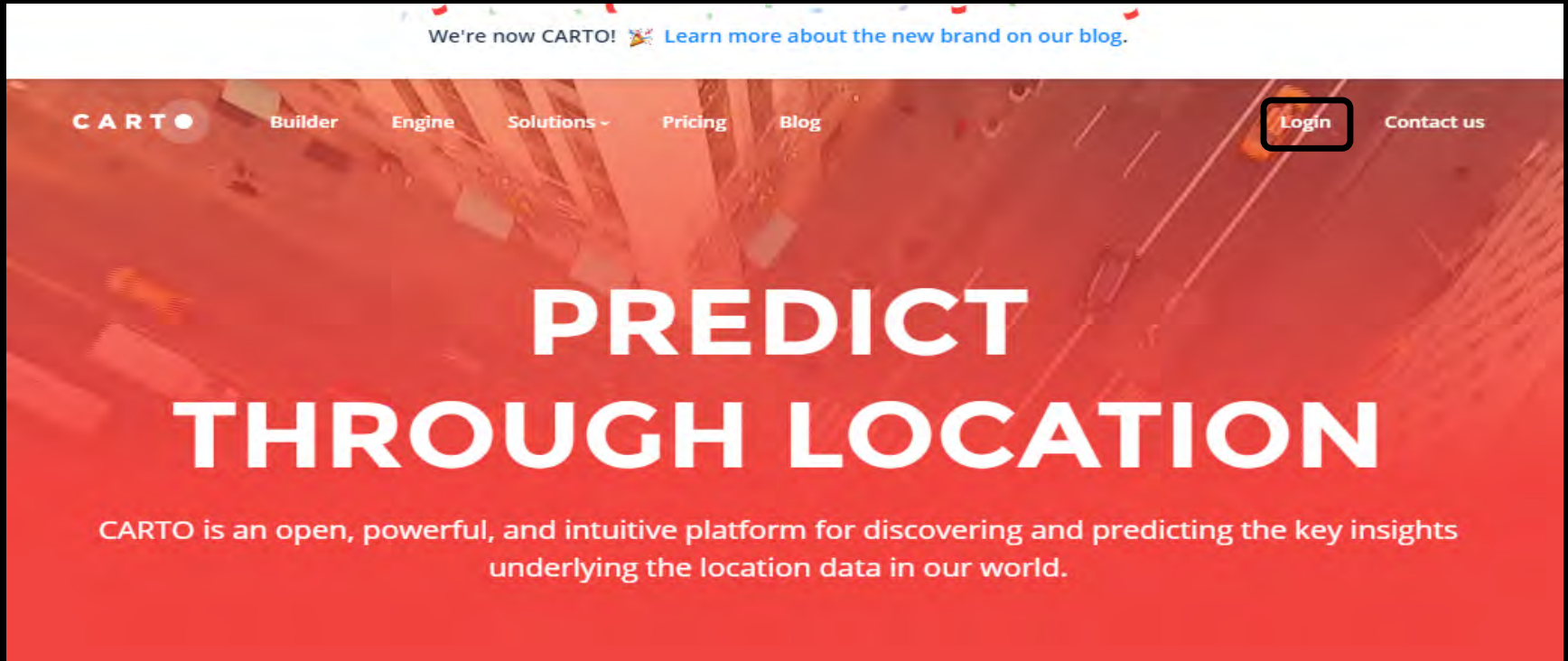
Ready to export data? Let's get started.
Once the process is complete, you will be able to download the files.

Apps	Projects	Format	Photos	Date Range	Started	
Spokane		shp	No		1 minute ago	

- Save the Zip file to a project folder

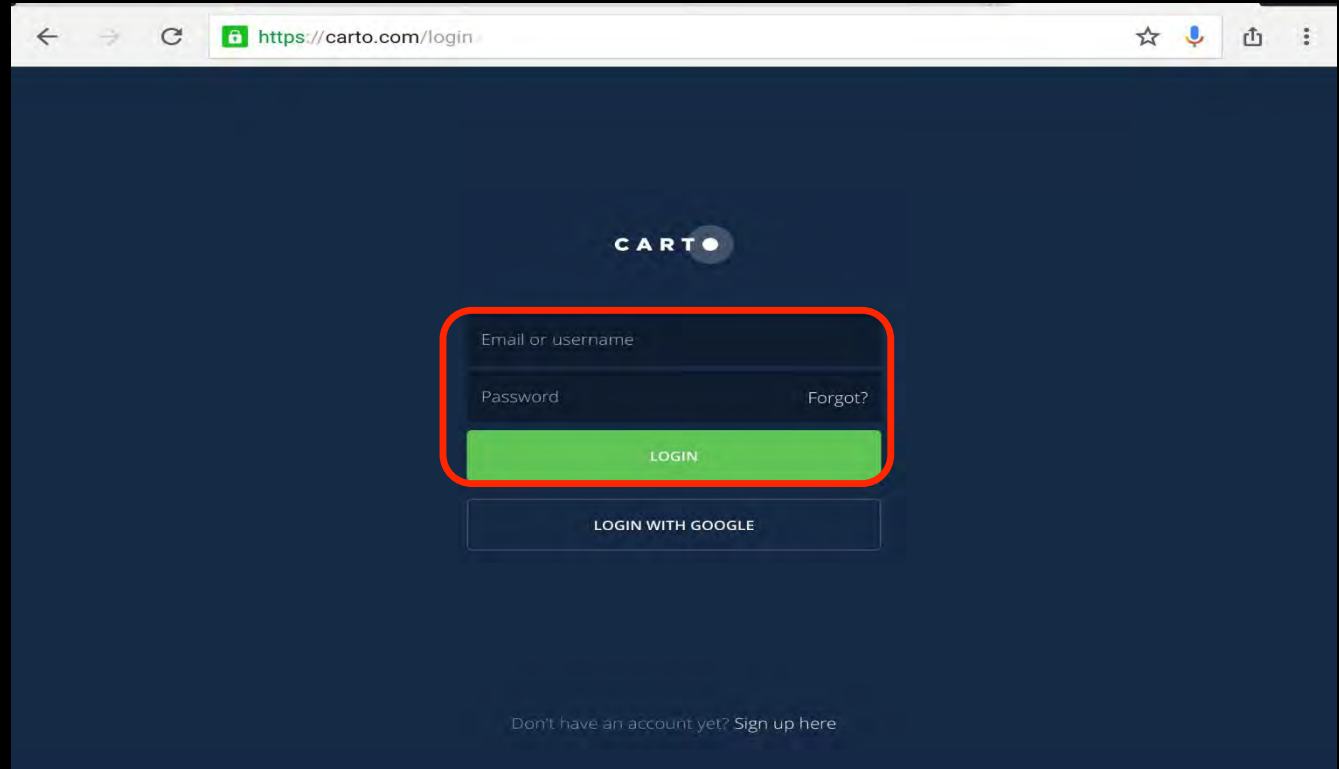
Open Carto

- On your laptop, open a web browser and go to Carto.com

A screenshot of the Carto website homepage. The background is a red-tinted aerial view of a city street. At the top, a white banner contains the text "We're now CARTO!" followed by a small icon and a link "Learn more about the new brand on our blog." Below the banner is a navigation bar with the "CARTO" logo on the left and links for "Builder", "Engine", "Solutions", "Pricing", "Blog", "Login" (highlighted with a black box), and "Contact us" on the right. The main content area features the headline "PREDICT THROUGH LOCATION" in large white letters. Below the headline is a paragraph: "CARTO is an open, powerful, and intuitive platform for discovering and predicting the key insights underlying the location data in our world."

Log in to Carto

- Log in



A screenshot of a web browser displaying the Carto login page. The browser's address bar shows the URL <https://carto.com/login>. The page features the Carto logo at the top center. Below the logo is a login form with a red border. The form contains three input fields: "Email or username", "Password", and "Forgot?". Below these fields is a green "LOGIN" button. Underneath the "LOGIN" button is a "LOGIN WITH GOOGLE" button. At the bottom of the page, there is a link that says "Don't have an account yet? Sign up here".

← → ↻ <https://carto.com/login> ☆ 🔊 📄 ☰

CARTO

Email or username

Password [Forgot?](#)

LOGIN

LOGIN WITH GOOGLE

Don't have an account yet? [Sign up here](#)

CartoDB Dashboard

- Switch to **Your datasets**

CARTO

Builder

Engine

Solutions ~

Pricing

Blog

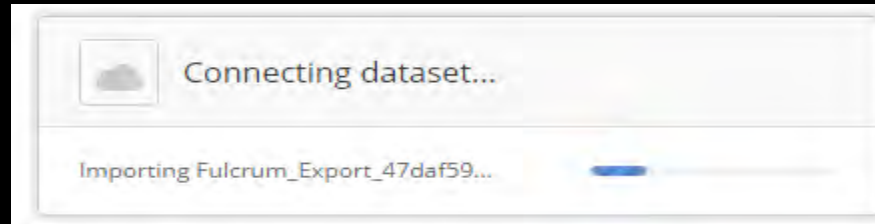
Maps

Datasets



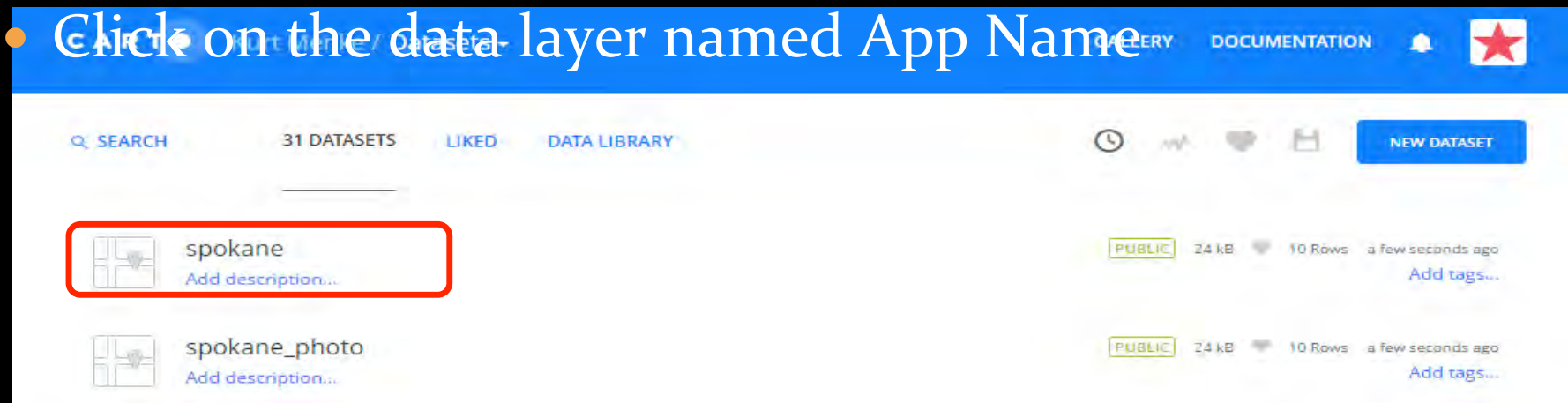
Upload Field Data

- Open Windows Explorer or Mac Finder, and locate the downloaded Zip file
- Drag the Zip file to your Carto web browser window



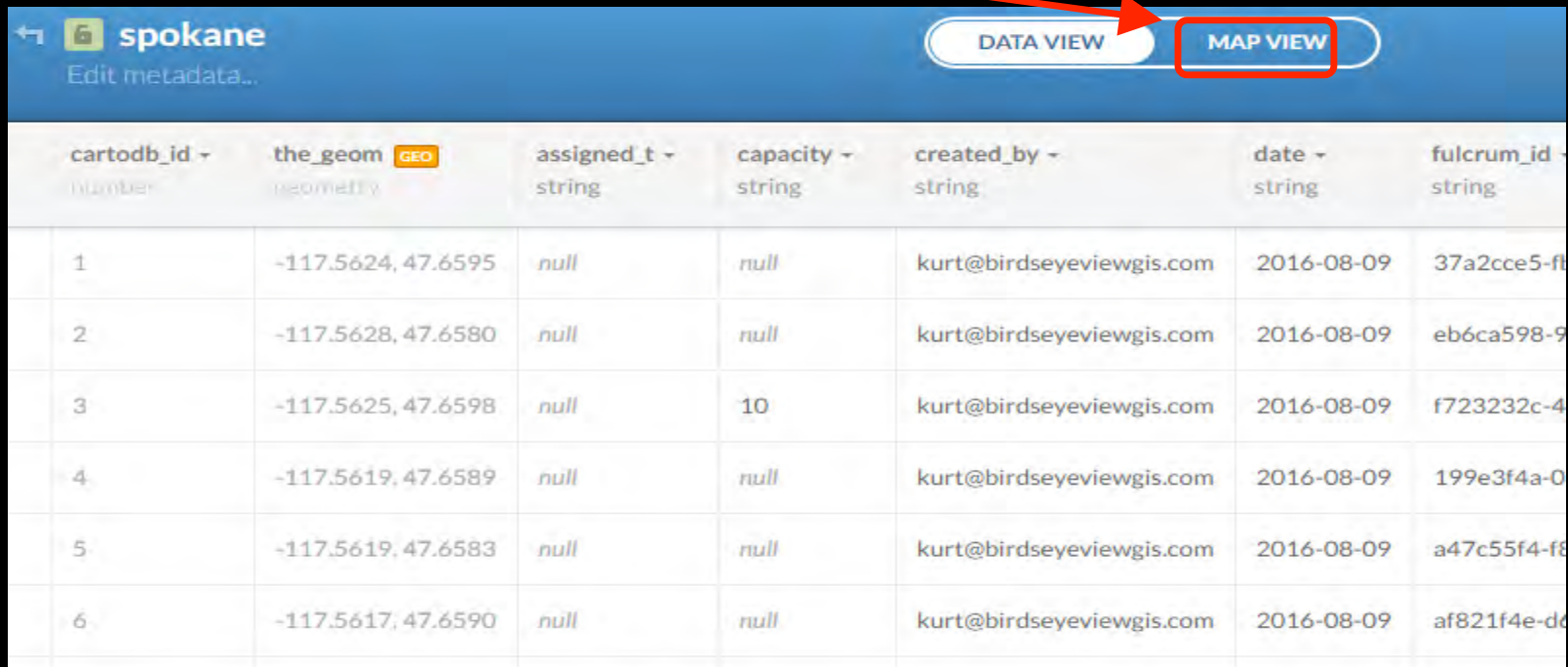
Uploaded Field Data

- The zip file contains two GIS layers (shapefiles)
 - One with your data points
<App Name>
 - One with points generated from the data in your photos
<App Name_photos>
- Click on the data layer named App Name



CartoDB Data View

- The data table opens up in **Data View**
- Click the **Map View** button

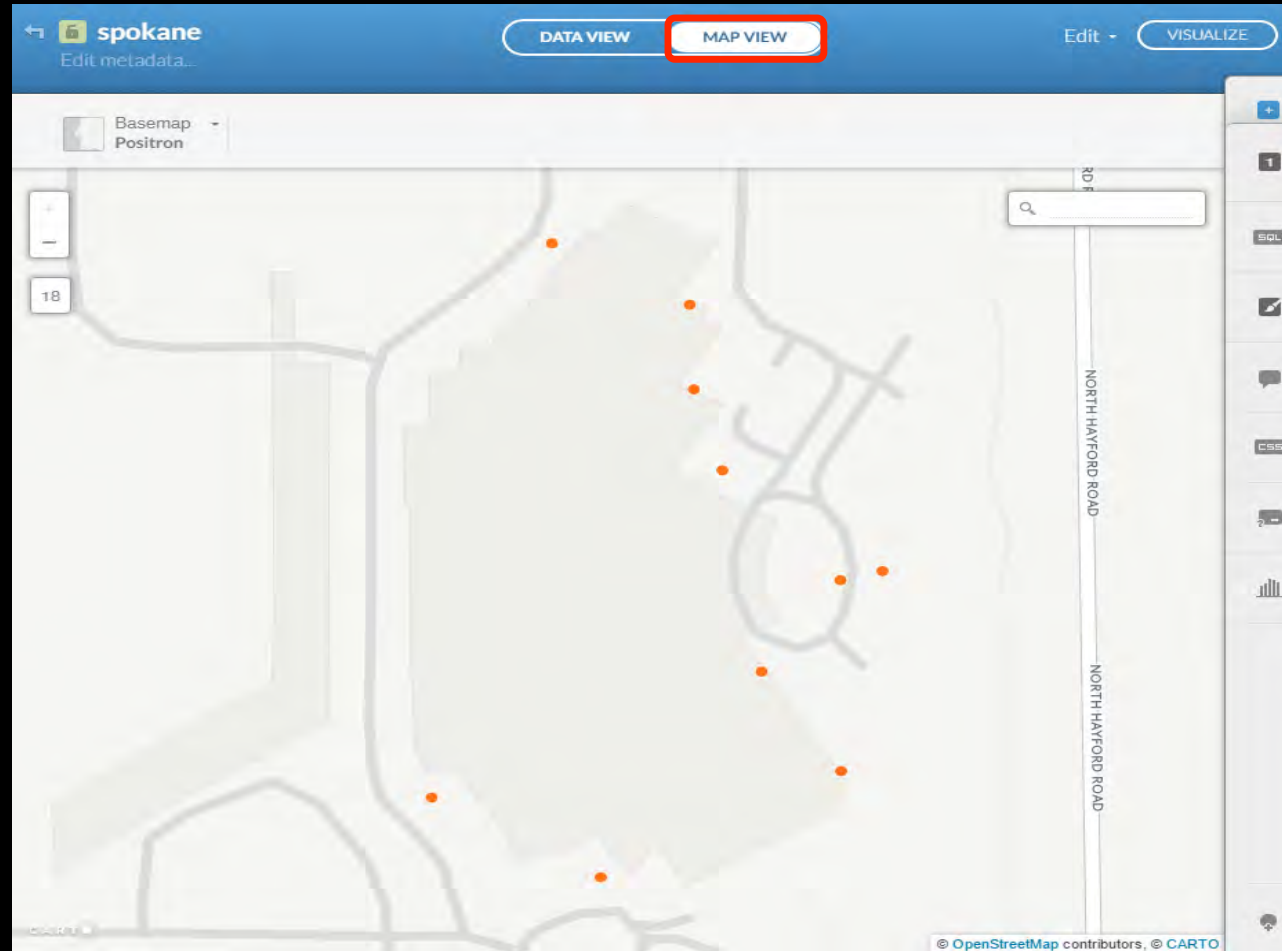


The screenshot shows the CartoDB interface for a dataset named 'spokane'. The top navigation bar includes a back arrow, a lock icon, the dataset name 'spokane', and a link to 'Edit metadata...'. On the right side of the navigation bar, there are two buttons: 'DATA VIEW' and 'MAP VIEW'. The 'MAP VIEW' button is highlighted with a red box, and a red arrow points from the text 'Click the Map View button' to it. Below the navigation bar, a data table is displayed with the following columns and rows:

cartodb_id	the_geom	assigned_t	capacity	created_by	date	fulcrum_id
number	geometry	string	string	string	string	string
1	-117.5624, 47.6595	null	null	kurt@birdseyeviewgis.com	2016-08-09	37a2cce5-fl
2	-117.5628, 47.6580	null	null	kurt@birdseyeviewgis.com	2016-08-09	eb6ca598-9
3	-117.5625, 47.6598	null	10	kurt@birdseyeviewgis.com	2016-08-09	f723232c-4
4	-117.5619, 47.6589	null	null	kurt@birdseyeviewgis.com	2016-08-09	199e3f4a-0
5	-117.5619, 47.6583	null	null	kurt@birdseyeviewgis.com	2016-08-09	a47c55f4-f8
6	-117.5617, 47.6590	null	null	kurt@birdseyeviewgis.com	2016-08-09	af821f4e-d6

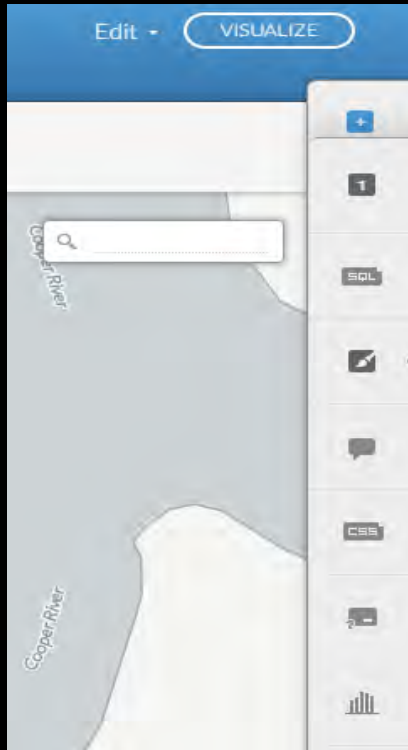
Map View

You will see orange data points on the map!



CartoDB Sidebar

- Layers can be styled using the Sidebar



Add a table to the map

Your layers

Use SQL to query/filter your data

Style your data with wizards

Create info windows

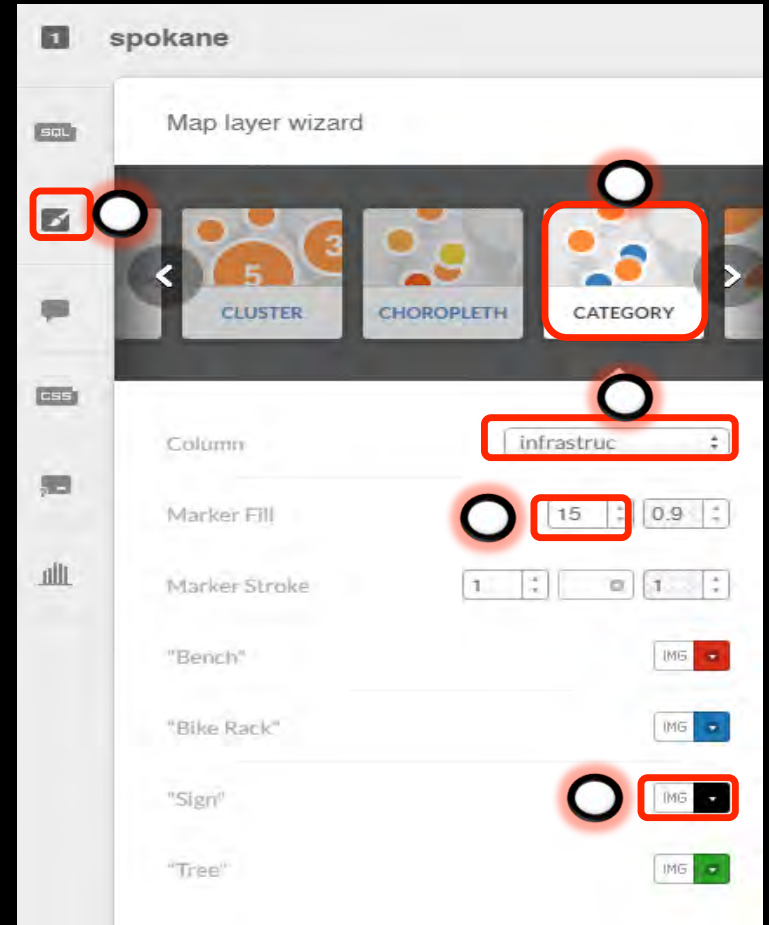
Use Carto CSS to style your data

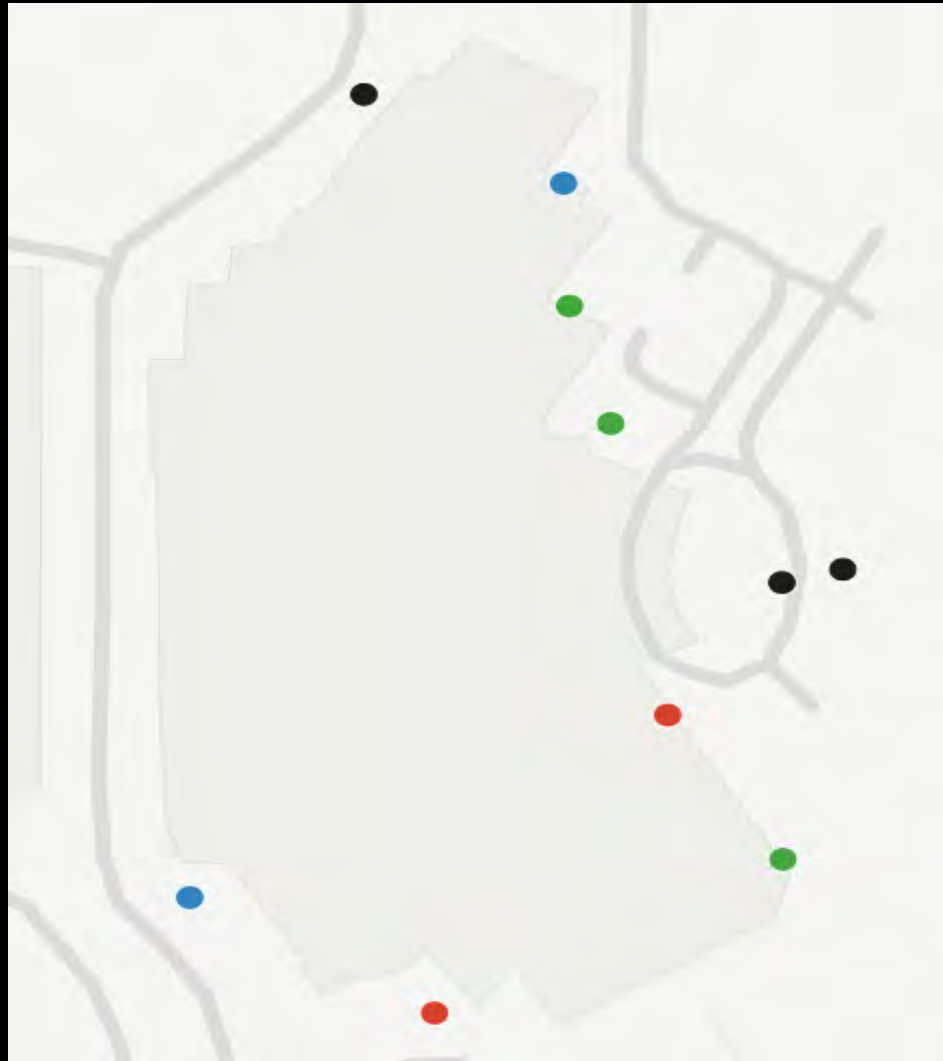
Legends

Filters

Style Data

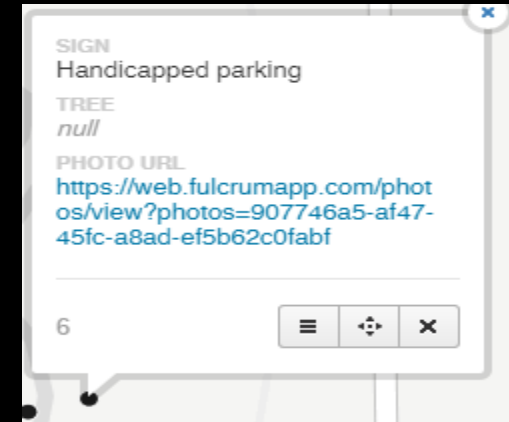
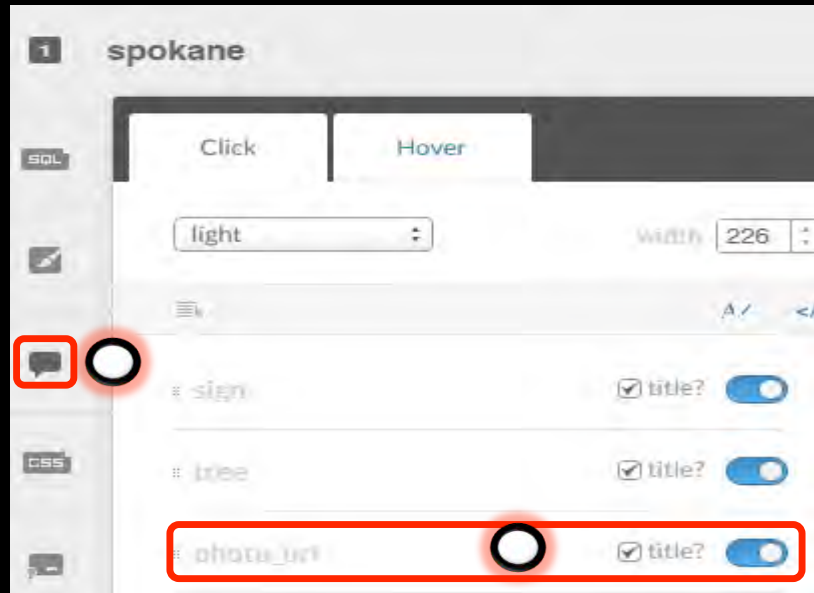
- Choose the **Wizard**
- Choose **Category**
- Choose the *infrastruc* column
- Give each item its own color





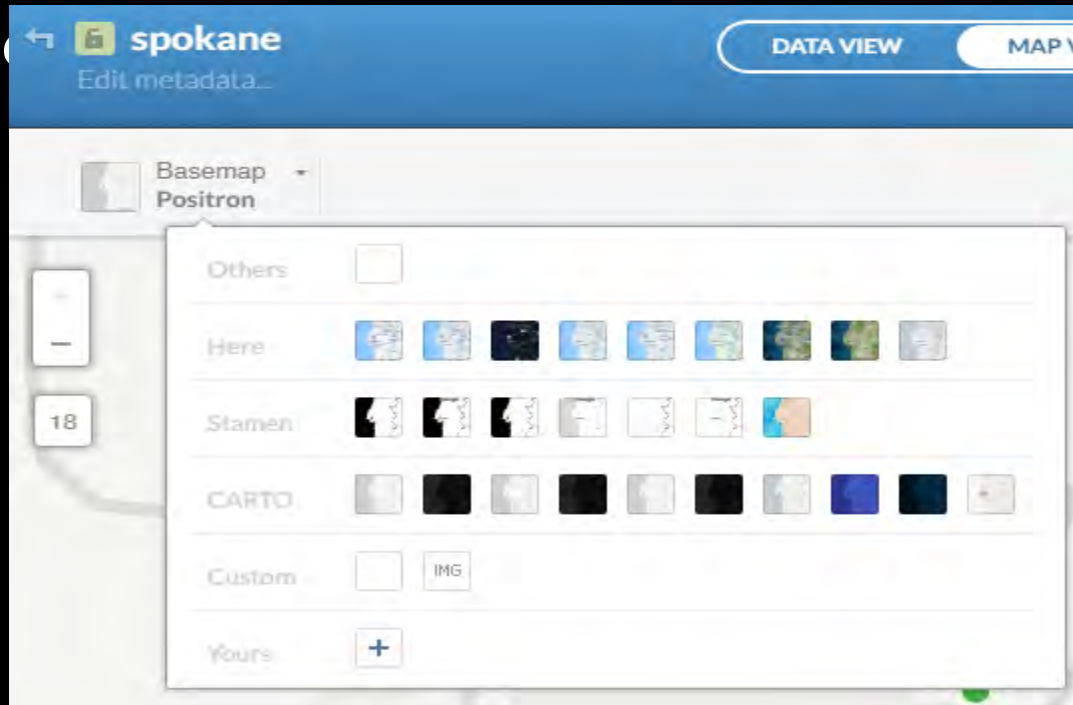
Add Information Windows

- Click the Info Window section
- Turn on the *photo_url*, *sign* or *tree* column



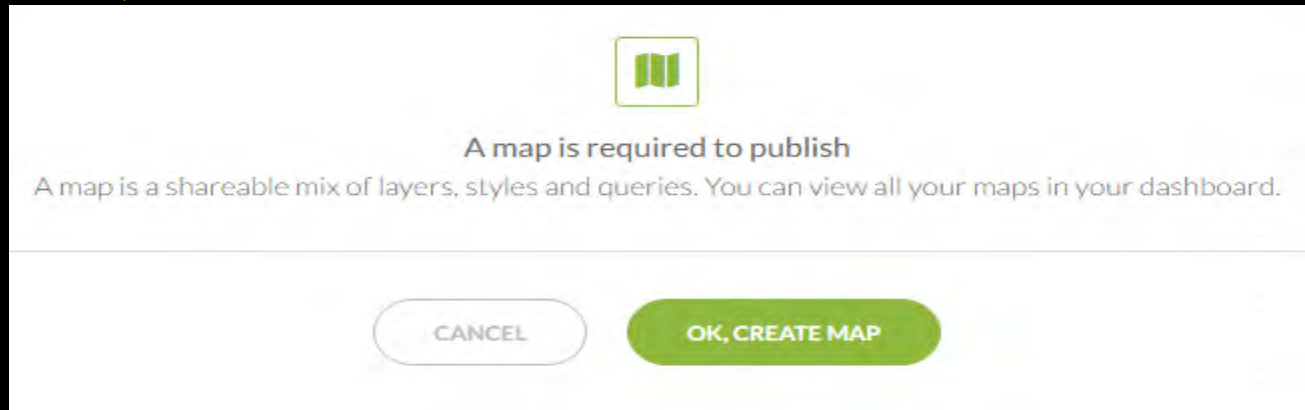
Change Basemaps

- Click the Change basemap link in the lower left corner
- Experiment



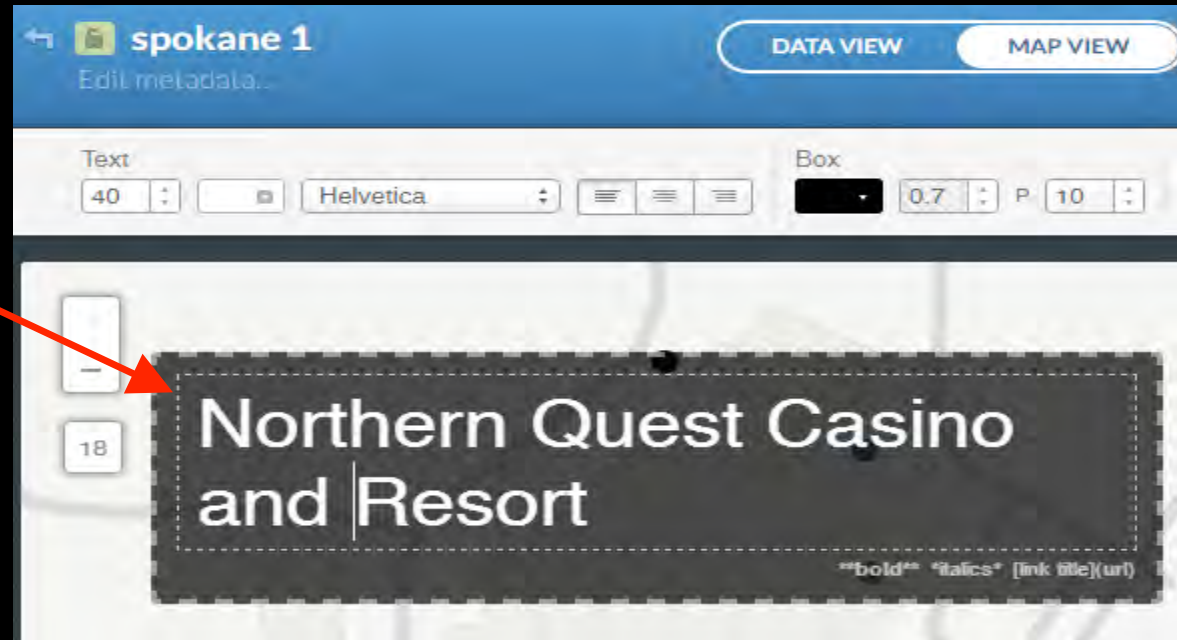
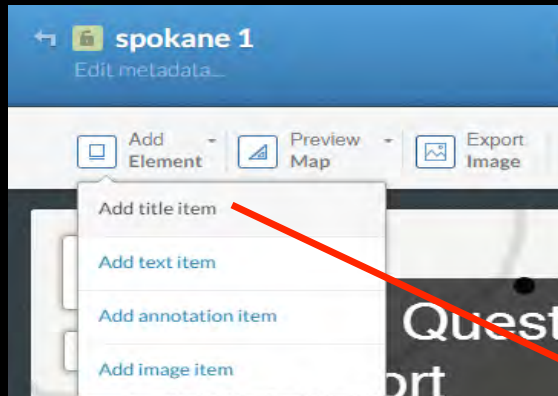
Create a Map (Visualization)

- Click the **VISUALIZE** button in the upper right corner
- You will be presented with the “**A map is required to publish**” message
- Click **OK, CREATE MAP**



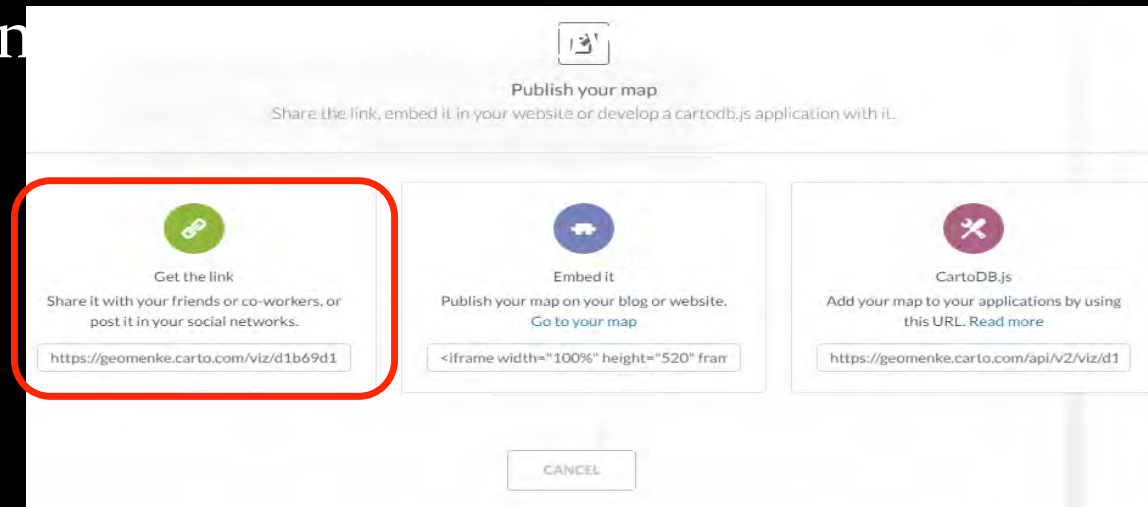
Add a Title

- Click **Add Element** → **Add title item** in the upper left corner



Publish a Map

- Click the **PUBLISH** button in the upper right corner
- You will be presented with the **Publish your map** window
- In the **Get the link** section, copy the link, and paste it into a n



Questions???

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