Community Health Maps

Information on Low Cost Mapping Tools for Community-based Organizations

Kurt Menke
GIS Specialist

Community Health Maps Project
Funded by the National Library of Medicine
LOCATION MATTERS!
Let’s Make a Map!

1. Build a Data Collection Form
2. Collect Data
3. Map it!
The Community Health Mapping Workflow

Computer → GIS → Tablet/Smart Phone with apps → Internet Mapping
Tools

1. This Presentation

2. Handouts

3. Community Health Maps Lab Series
Agenda

8:30 – 9:30  Building data collection form
9:30 – 10:00 Collecting data
10:00 – 10:15 Break
10:15 – 11:00 Mapping data online in CartoDB
11:00 – 12:30 Desktop Mapping with QGIS
Let’s Make a Map!

1. Build a Data Collection Form
2. Collect Data
3. Map it!
Plan Data Collection

Where is the closest tree? (location)

How far is my car from the front door? (proximity)

How many lunch benches surround the casino? (density)
Today’s Form
This morning we will collect locations of:
• Benches
• Signs
• Trees
• Bike racks

<table>
<thead>
<tr>
<th>Label (Question)</th>
<th>Field Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>What type of infrastructure is it?</td>
<td>Multiple Choice</td>
</tr>
<tr>
<td>What is the capacity of the bike rack?</td>
<td>Numeric</td>
</tr>
<tr>
<td>How many bikes are there?</td>
<td>Numeric</td>
</tr>
<tr>
<td>What type of sign?</td>
<td>Text</td>
</tr>
<tr>
<td>What type of tree?</td>
<td>Text</td>
</tr>
<tr>
<td>Take a photo</td>
<td>Photos</td>
</tr>
<tr>
<td>Today’s Date</td>
<td>Date</td>
</tr>
</tbody>
</table>
Login in to FulcrumApp.com

On your laptop computer in a web browser:
Create a New App (aka data collection form)

Click on the **New App** button
Fulcrum App Designer opens

Types of fields you can add!
Your App: Field Settings

Build your form here by dragging and dropping fields
App Settings

Settings:
- App name
- Description
- Save buttons
Name your App

Name your app
Spokane
Add First Field

Drag and drop a **Choice** → **Multiple Choice** field onto your App.
Label: What type of infrastructure is it?
Fill in the Field Parameters

- Description: [Image]
- Default Value: [Image]
- Data Name: infrastructure
- Allow “Other”
- Required field?
Populate the Choices

Choices:
Bench
Sign
Tree
Bike Rack
Other
Add Field #2 - Capacity

Drag a Basic → Numeric field onto your app

Label: *What is the capacity of the bike rack?*

Data Name: *capacity*

Format: *Integer*
Add Field #3 - # Bikes

Drag a **Basic ➔ Numeric** field onto your app.

**Label:** *How many bikes are there?*

**Data Name:** *num_bikes*

**Format:** *Integer*
Add Field #4 – Type of Sign

Drag a **Basic ➔ Text** field onto your app.

Label: **What kind of sign is it?**

Data Name: **sign**

Required field?
Add Field #5 – Type of Tree

Drag a **Basic → Text** field onto your app

Label: *What kind of tree is it?*

Data Name: *tree*

Required field?
Add Field #6 - Photo

Drag a **Media → Photos** field onto your app

Label: *Take a photo*.

Data Name: *photo*

Required field?
Add Field #7 – Today’s Date

Drag a **Basic → Date** field onto your app

**Label:** *Today’s Date*

**Data Name:** *date*

Default to today’s date
Location Settings → Enabled
Save and Exit
App Completed

Your new app has been successfully created.

Spokane

No records collected.

There is no activity for this app yet.

0 records

1 contributor

View Data
Edit App
Duplicate App
Import Data
Open the Fulcrum app on your mobile device

If you haven’t done so, log in using your user name and password.

Once you log in or tap **Sync** all your forms will be downloaded to your device.
Let’s Make a Map!

1. Build a Data Collection Form
2. Collect Data
3. Map it!
Collect Data

1. What type of infrastructure is it?
   - Tree

2. What is the capacity of the bike rack?

3. How many bikes are there?

4. What kind of sign is it?

5. What kind of tree is it?
   - Sycamore

6. Take a photo

7. Today's date
   - August 9, 2016
Go out and collect at least 10 points

Some benches, some signs, some trees...

Be Back by 10:00!!!
Are there any questions?
Fulcrum – Subscription Plans

• Pricing

<table>
<thead>
<tr>
<th>Plan</th>
<th>Price</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essentials</td>
<td>$18/mo</td>
<td>Media Storage 10 GB, Photo Capture, Calculation Field, Data Importer, Custom Online &amp; Offline Maps</td>
</tr>
<tr>
<td>Standard</td>
<td>$22/mo</td>
<td>Media Storage 20 GB, Parent-Child Records, Signature Capture, Data Shares, Access to Developer API</td>
</tr>
<tr>
<td>Professional</td>
<td>$25/mo</td>
<td>Media Storage 30 GB, Barcodes &amp; QR Code Scanning, Webhooks, Record Linking, Geotagged Video &amp; Audio Capture</td>
</tr>
</tbody>
</table>

Try It Now