

CITY S D K

CitySDK Overview

US Census Bureau

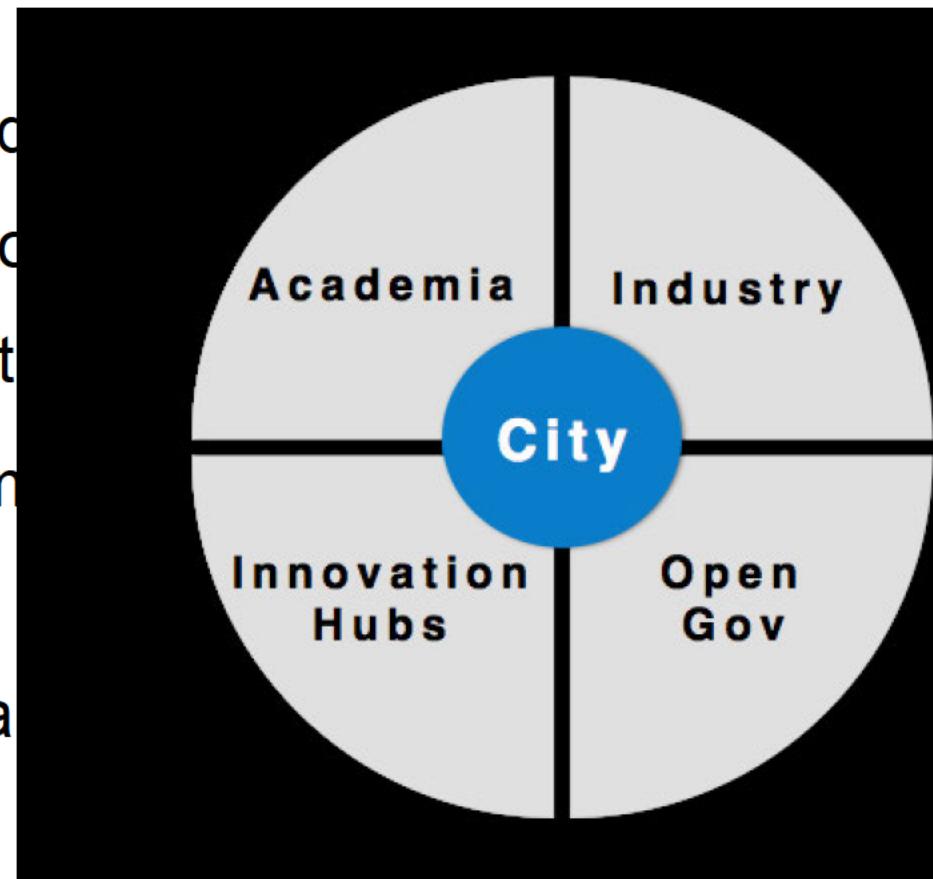


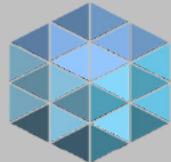


CITY S D K

What is the CitySDK

1. Set of javascript tools, guides and examples on Github to build web applications fast
2. An open-source ecosystem to improve interoperability across data silos at federal, state, and local level





CITY S D K

Open-Source Project

<http://uscensusbureau.github.io/citysdk/>



Screenshot of the CitySDK website:

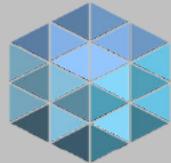
The header includes the CitySDK logo, navigation links for Guides, Example Code, Gallery, News, and a GitHub link.

The main image is a photograph of the New York City skyline with the CitySDK logo overlaid.

The tagline below the image reads: "Toolbox for civic innovators to connect local and national public data".

The page features four main sections with cards:

- Guides**: Shows an icon of an open book. Description: "Check out the 'Getting Started' tutorials, learn how to structure requests, and see what's possible with the CitySDK." Call-to-action button: "Guides".
- Code Examples**: Shows a screenshot of a code editor with some JSON code. Description: "Jump straight to code examples and begin integrating into open data and mapping capabilities into your own applications." Call-to-action button: "Examples".
- Gallery**: Shows icons for Leaflet, Esri, Google Maps, and other mapping services. Description: "Browse Integrations from Census, HUD, USDA, Google, Leaflet JS, Microsoft, Socrata, ESRI, and more." Call-to-action button: "Gallery".
- News**: Shows an icon of a newspaper. Description: "Learn about upcoming hackathons, review case-studies from civic innovators, and read the latest CitySDK articles." Call-to-action button: "News".



C I T Y S D K

Partner integrations and example projects

Show All

Browse by Dataset

Browse by Technology

FEMA



Access the Disaster Declarations dataset from the Federal Emergency Management Agency to see what emergencies have occurred in your area.

CitySDK FEMA Module

Demo: Disaster Declaration Summaries

Civic Spark



The CivicSpark App is for civic tech leaders and entrepreneurs to more easily find free or low-cost spaces in their local communities to meet,

Dataset Collection and Exploration
App: Civic Spark (prototype)

Austin Parks Equity



This is a civic app that aims to help visualize how Austin's park resources are distributed throughout the City of Austin.

Github Repo: Austin Parks Equity
App: Austin Parks Equity (prototype)

Hyperlocal



HyperLocal helps Food Truck operators without a lottery parking spot find customers by locating tweets from those who are hungry.

App: Who's Hungry? (prototype)

Purshable



Purshable is a mobile app that will help reduce waste, increase grocer's profit, and offer the shopper high quality food at a fraction of the cost.

Purshable website

Accessible Places Finder



This app aims to help people with disabilities to easily find a place to live or travel in the state of Minnesota that satisfies the specific accessibility needs

App: Accessible Places Finder (prototype)

US Census Bureau



The Census Bureau's mission is to serve as the leading source of quality data about the nation's people and economy.

Guide to the Census CitySDK Module
Demo: Interactive Query Builder

Leaflet



Leaflet is an Open-Source JavaScript library for web and mobile friendly interactive maps. It uses the GeoJSON format.

Demo: Leaflet NYC Boroughs

Housing and Urban Development



Access data on FHA Loans, HUD Insured Properties, Fair Market Rents and dozens of other datasets related to national housing and property issues.

CitySDK HUD Module
Demo: Housing Loans in Pittsburgh

US Department of Agriculture



Discover fresh food near you with the National Farmer's Market directory module.

CitySDK Farmer's Market Module
Demo: Farmer's Markets in California

US Department of Energy



Access the extensive datasets of the U.S. Energy Information Agency, browse various categories and use their data series in your visualizations.

CitySDK Energy Information Agency Module
Demo: Energy Information Agency browser

ESRI



Governments, industry leaders, academics, and nongovernmental organizations (NGOs) use ESRI to connect with analytic knowledge they

ESRI ArcGIS Module
Demo: Chart Showing DC School Enrollment

Socrata



The Socrata platform is commonly used by municipal, state, and federal agencies to distribute their data.

CitySDK Socrata Module
Demo: Chicago Payroll Query
Demo: Chicago Crime and Demographics

Google Maps



There are several CitySDK examples that utilize Google Maps to create interactive web apps.

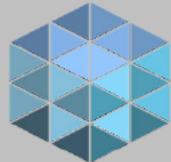
Demo: Farmer's Markets in California
Demo: Housing Loans in Pittsburgh

Bing Maps



CitySDK apps can be built with Microsoft Bing's mapping technology.

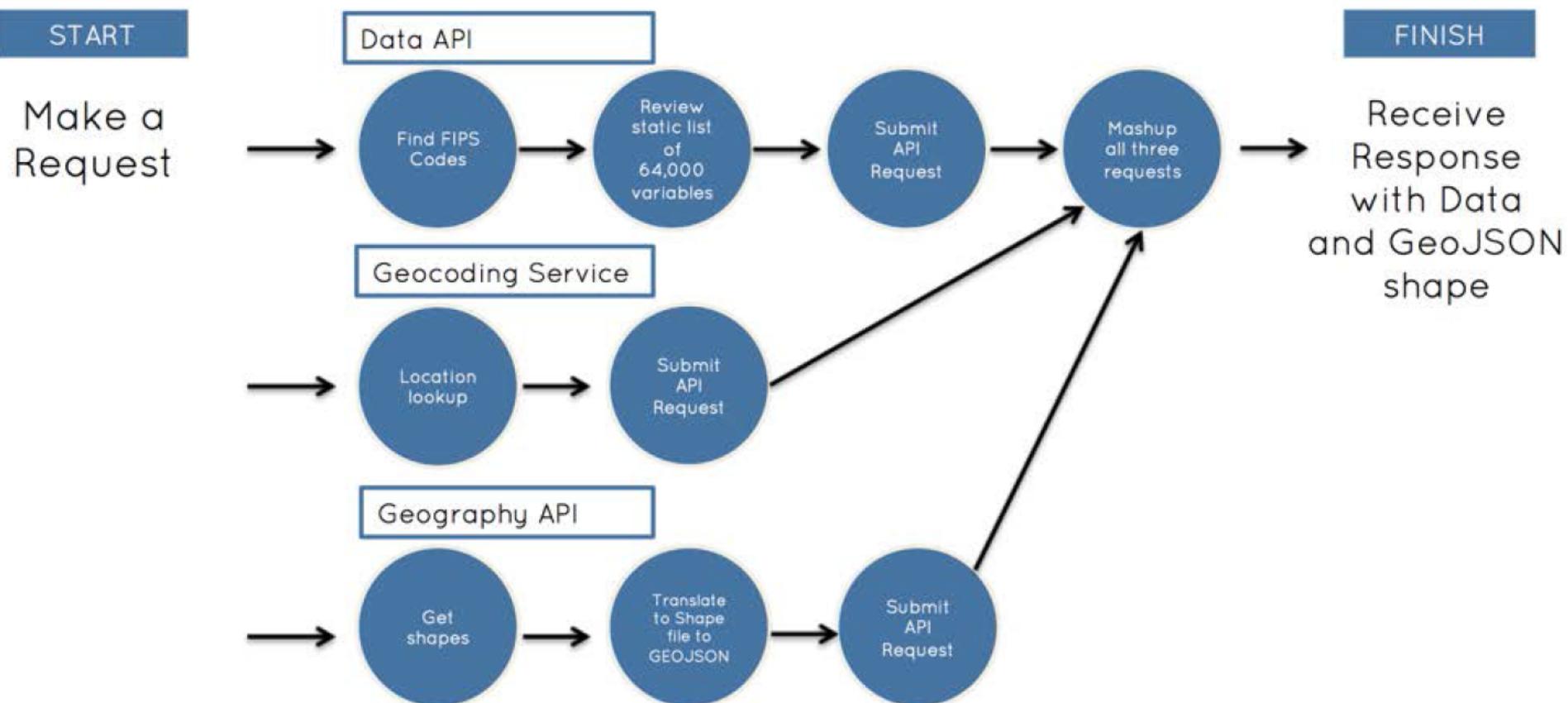
Demo: Using Bing Maps with the CitySDK



CITY S D K

How the SDK works

Combines multiple datasets using a single call





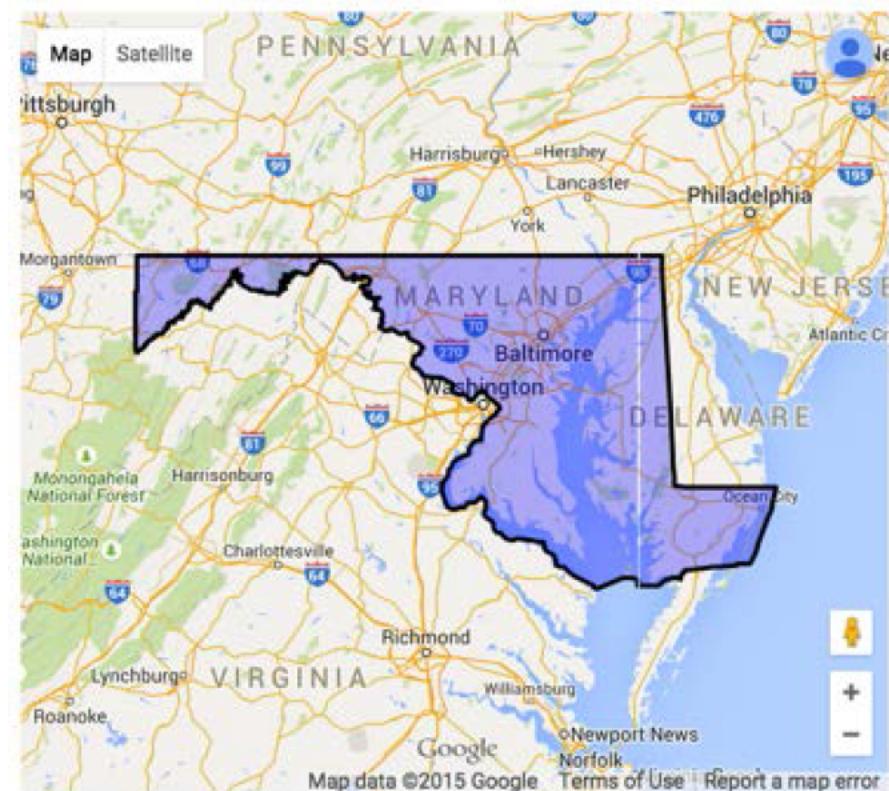
CITYSDK

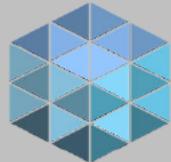
Acquiring Census Data

Example of simple request for State of Maryland geography

```
var request = {  
    "state": "MD",  
    "level": "state"  
};  
  
var callback = function(response) {  
    map.data.addGeoJson(response);  
};  
  
census.GEORequest(request, callback);
```

[Run This »](#)

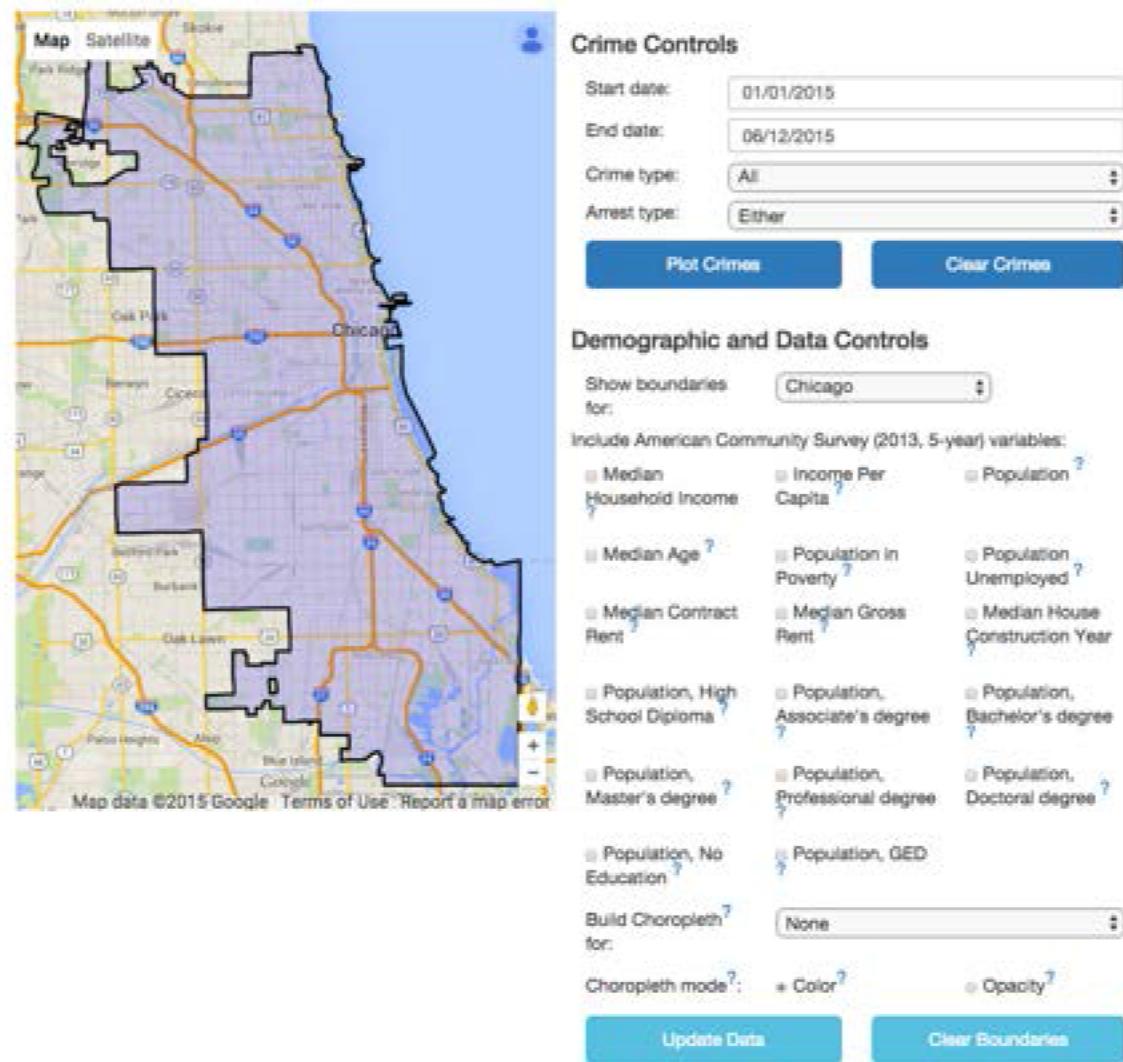


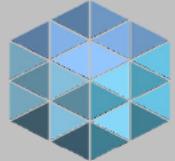


CITY SDK

Combining Federal and Local Data

Uses Census
ACS data with
Crime data
from the City of
Chicago





CITY SDK

Case Study: Purshable



PURSHABLE

BROWSE **LIST** **FAVORITE**

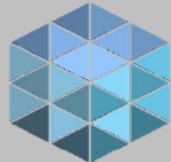
AVAILABLE ITEMS

- Apples, 1lb
- Oranges, 1lb
- Grapes, 1lb
- Pineapple, 1lb
- Grapes
- Apples

ABOUT **BROWSE** **LIST**

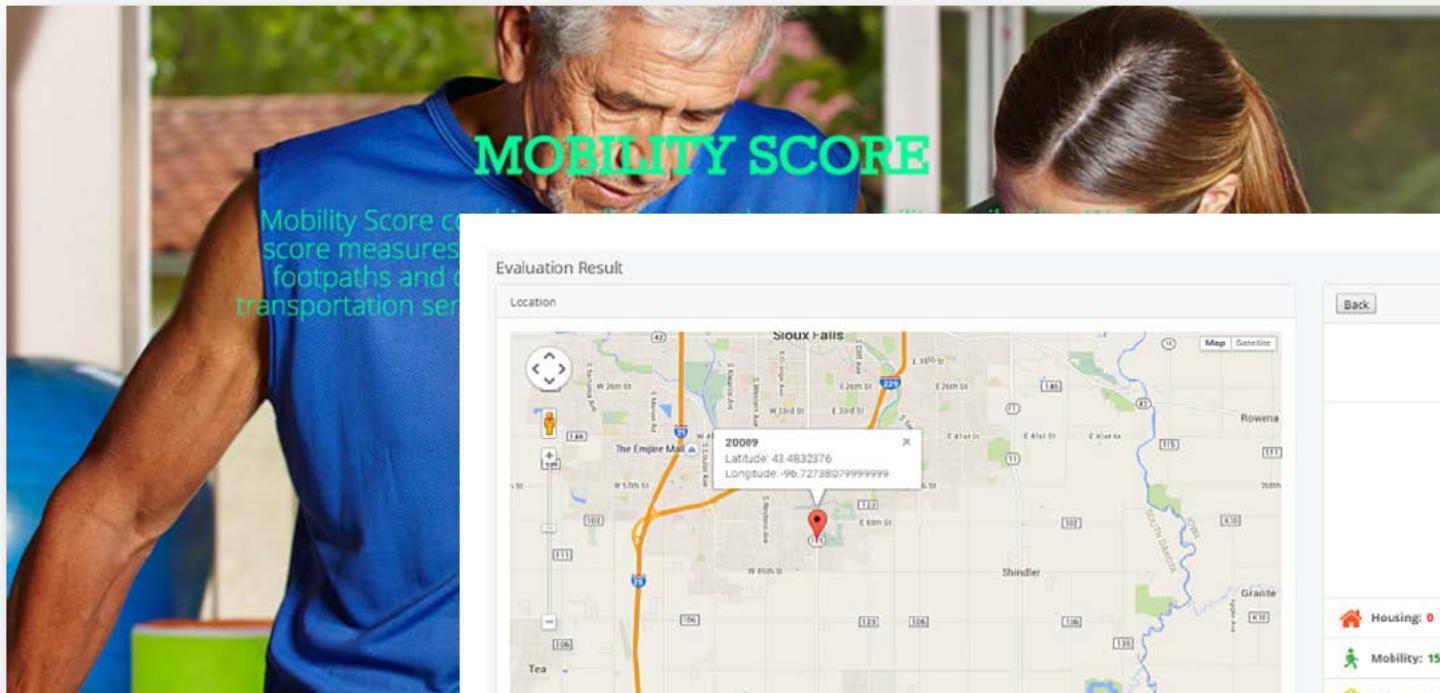
Elizabeth's Apple Atelier
Apples, 1lb (\$2) Ends: 2015-06-12

Closest Farmer's Market
0.3 Willis Tower Farmers Market
233 S Wacker Dr , Chicago, Illinois, 60606



CITYSDK

Case Study: Housing Accessibility



Evaluation Result

Location

2009
Latitude: 43.4832376
Longitude: -96.72738079999999

Map data ©2013 Google. Terms of Use. Report a map error.

Back

Evaluation Score:
10
Inaccessible place.

Housing: 0 No apartment nearby.

Mobility: 15 Somewhat walkable & No metro mobility

Safety: 0 Not safe region.

Health & Special Services: 0 No hospital nearby.

Disability Community: 16 No disability community.

Type

Please Type Address. For Example: 1225 Estabrook DR



C I T Y S D K

Case Study: “AirBNB for Tech Spaces”

Civic Spark

Browse Categories Dashboard ▾

SEARCH YOUR CITY
CIVIC SPARK HELPS YOU FIND PLACES AND OPPORTUNITIES TO INNOVATE IN YOUR COMMUNITY.

Keywords Location Any category Search Places

Civic Spark

Browse Categories Dashboard ▾

Map Satellite

W Superior St N Sedgwick St N Orleans St W Superior St N Wells St N LaSalle Dr N Clark St W Huron St W Erie St W Erie St W Erie St W Ontario St Hard Rock Cafe Chic W Ohio St W Grand Ave N LaSalle Dr N Franklin St N Hubbard St N Illinois St W Kinzie St N Orleans St N Wells St N Carroll St N Elston St W Grand Ave W Hubbard St W Kinzie St N Franklin St N Hubbard St N Illinois St Merchandise Mart Properties, Inc Merchandise Mart (Purple) M

Update Places

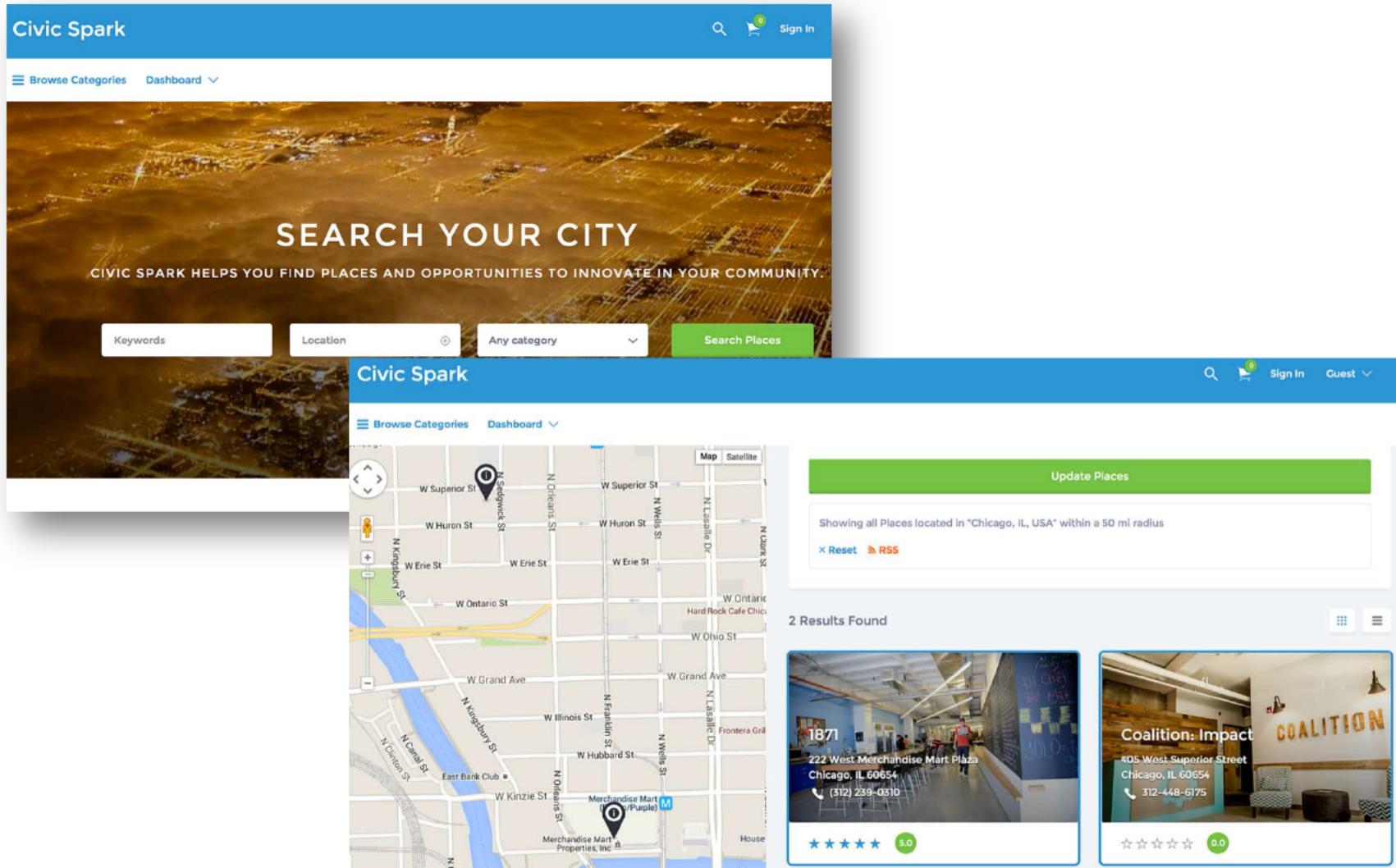
Showing all Places located in "Chicago, IL, USA" within a 50 mi radius

Reset RSS

2 Results Found

1871 222 West Merchandise Mart Plaza Chicago, IL 60654 (312) 239-0310 ★★★★★ 5.0

Coalition: Impact 405 West Superior Street Chicago, IL 60654 312-448-6175 ★★★★★ 0.0





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Where to go for more information

Census Developer Portal:

<http://www.census.gov/developers/>

CitySDK Project Page:

<http://uscensusbureau.github.io/citysdk/>

Submit a Github issue:

<https://github.com/uscensusbureau/citysdk/issues>