

CitySDK Overview

US Census Bureau

CITY SDK

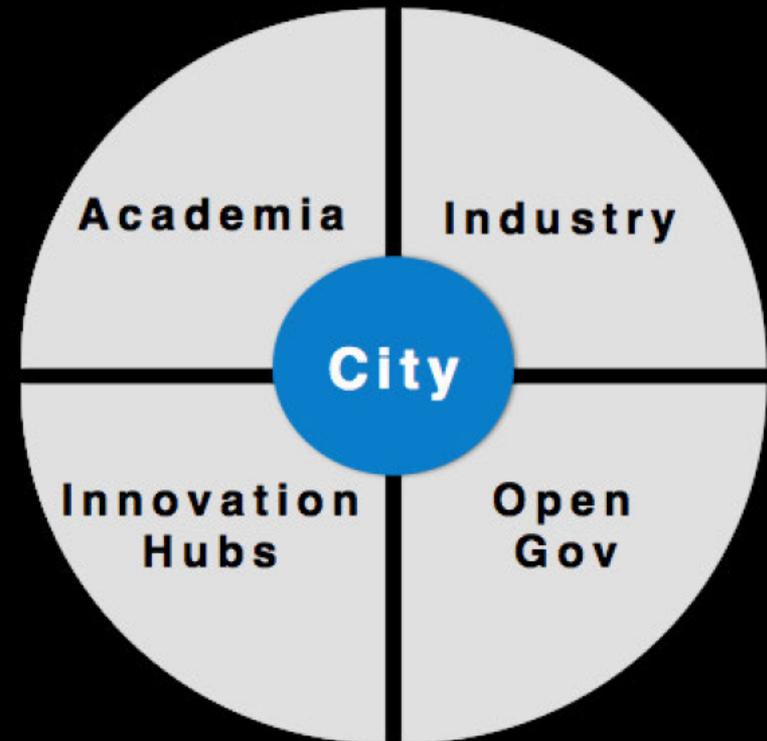




CITYSDK

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





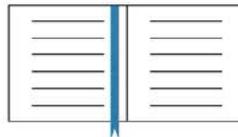
CITY SDK

Open-Source Project

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



Toolbox for civic innovators to connect local and national public data



Guides

Check out the "Getting Started" tutorials, learn how to structure requests, and see what's possible with the CitySDK.

[Guides](#)



Code Examples

Jump straight to code examples and begin integrating into open data and mapping capabilities into your own applications.

[Examples](#)



Gallery

Browse integrations from Census, HUD, USDA, Google, Leaflet JS, Microsoft, Socrata, ESRI, and more.

[Gallery](#)



News

Learn about upcoming hackathons, review case-studies from civic innovators, and read the latest CitySDK articles.

[News](#)



Partner integrations and example projects

CITY S D K

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 use 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



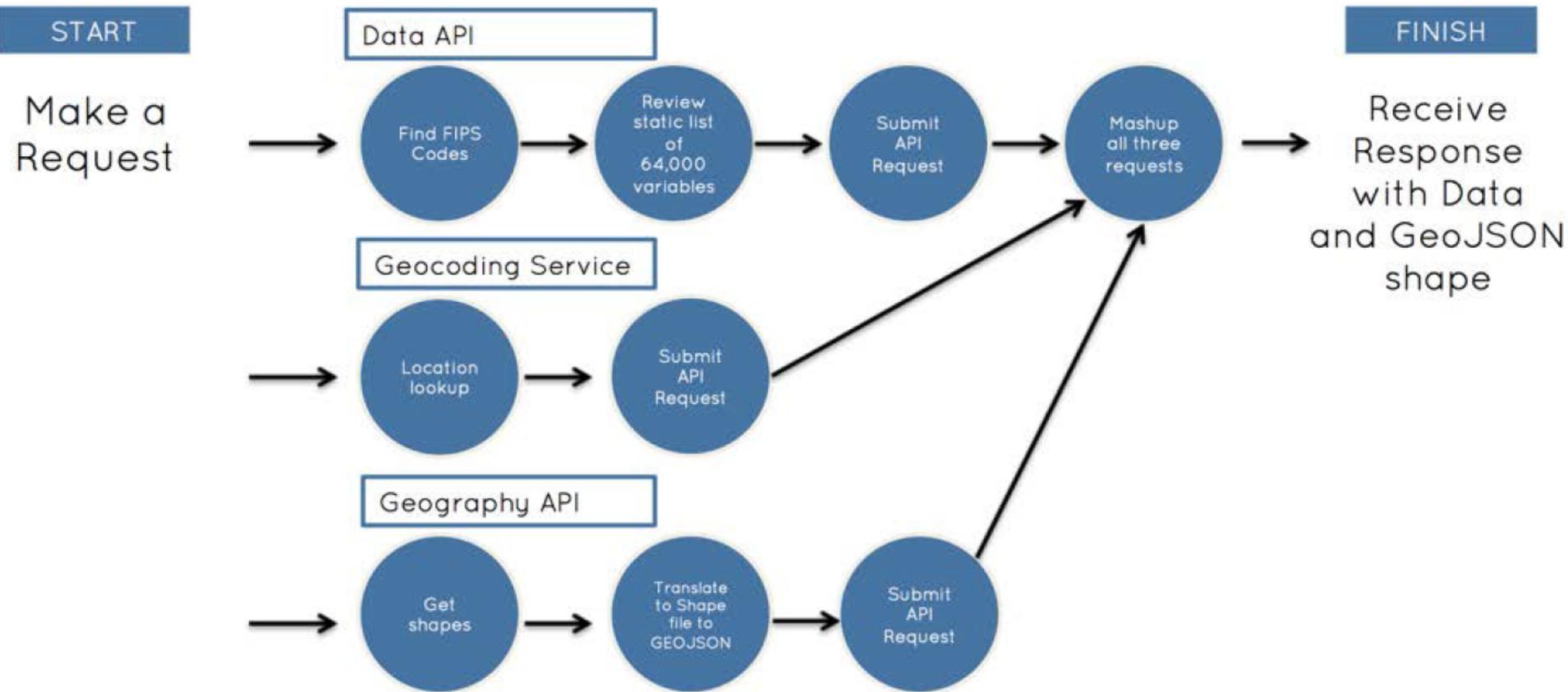
CitySDK apps can be built with Microsoft Bing's mapping technology.

[Demo: Using Bing Maps with the CitySDK](#)



How the SDK works

Combines multiple datasets using a single call





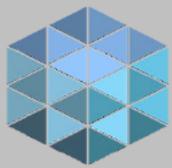
Acquiring Census Data

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 »

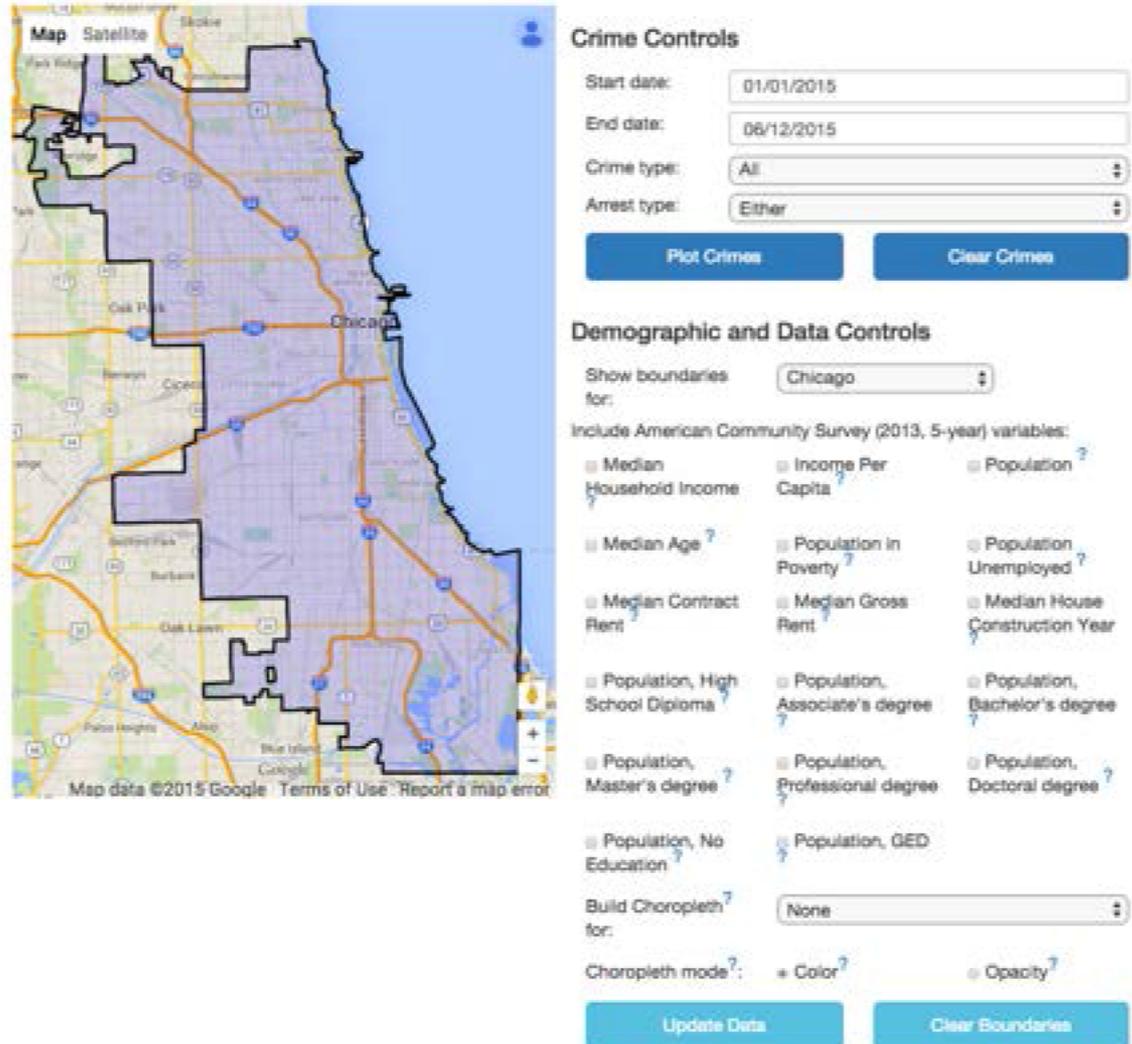




CITY SDK

Combining Federal and Local Data

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





CITY SDK

Case Study: Purshable

PURSHABLE ABOUT BROWSE LIST

BROWSE LIST FAVORITE

AVAILABLE ITEMS

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

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





CITY SDK

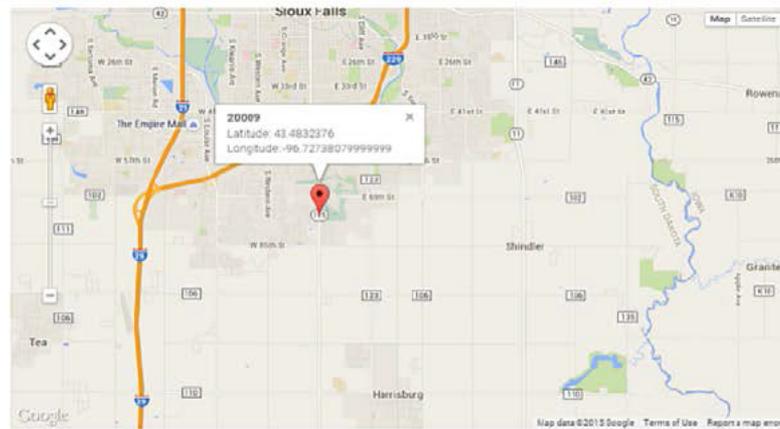
Case Study: Housing Accessibility

MOBILITY SCORE

Mobility Score of 15
score measures
footpaths and
transportation ser

Evaluation Result

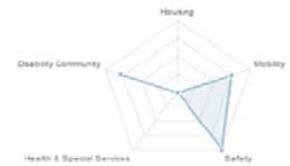
Location



Back

Evaluation Score:

10
inaccessible place.



Housing: 0 No apartment nearby.

Mobility: 15 Somewhat walkable & No metro mobility

Safety: 0 Not safe region.

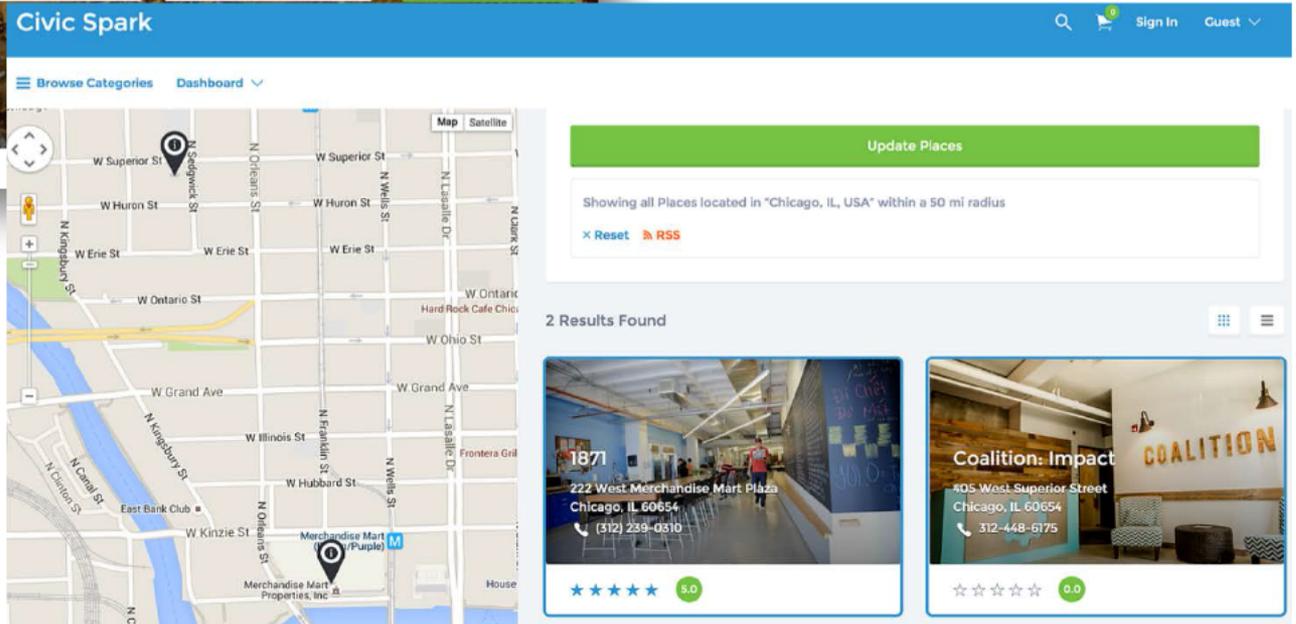
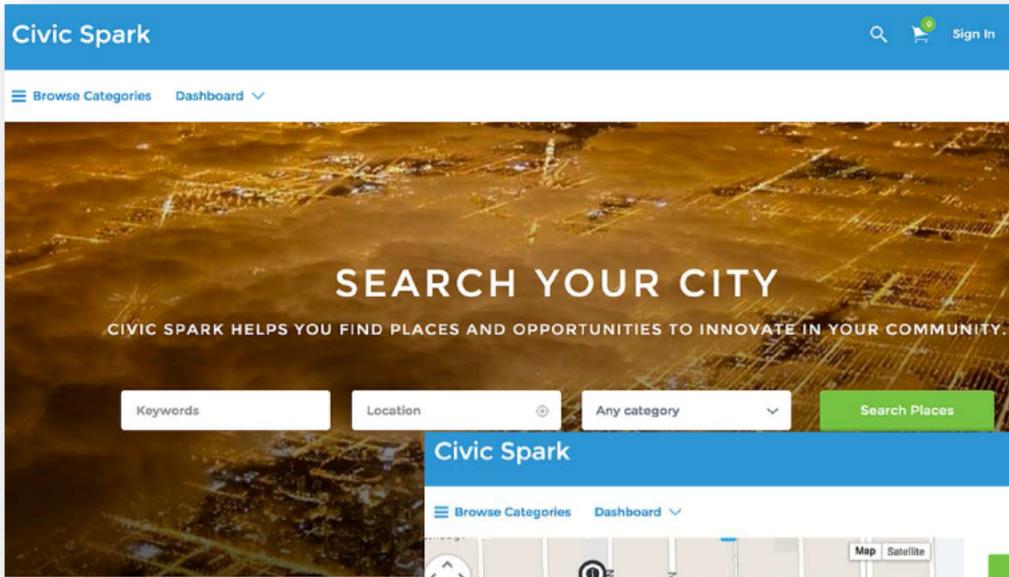
Health & Special Services: 0 No hospital nearby.

Disability Community: 16 No disability community.

Type

Please Type Address. For Example: 1225 Estabrook DR

Case Study: “AirBNB for Tech Spaces”





CITY SDK

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>