

A stylized, colorful map of Chicago created by Stamen Design. The map uses a grid of colored squares to represent different land use types, with a prominent orange grid for the city's street layout. The colors include shades of orange, yellow, green, blue, and purple. The map is set against a light blue background representing water.

Image/Map Credit: Stamen Design

OPEN DATA, SIMPLY SEEN

@abhinemani | CAPP 30130 | University of Chicago

A small, horizontal strip of the Stamen Design map of Chicago, showing a portion of the city's grid and water bodies.

CIVIC TECH: KEYS TO SUCCESS

Empathy

- Build with, not for
- Talk to users
- Understand behavior
- Learn what's out there

Lean

- It's more than just a technical process
- Expect failure
- Only build what's necessary
- Test, test, test

Data

- Data “lives” everywhere
- Be ready to scrape
- Open data is your friend
- ETLs are your best friend

Users

- ~~If you build it they will come~~
- Listen and learn
- Define metrics
- Find partners

Sustainability

- Consider your options: startup, open source, non-profit, academic, etc
- Tech -> Policy
- Expect to train everyone
- Document everything

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AGENDA

- Case Studies:
 - Immigration in LA
 - Toys for Tots
- Scraping
- Mapping
 - Socrata
 - Google Fusion Tables
 - Mapbox



IMMIGRATION IN LA

Mapping through a problem with open data



After DACA Announcement, LA Lawyer Warns of Immigration Scams

So-called experts have sought to take advantage of changes in immigration laws

By Gerardo Bonilla



WEATHER FORECAST

WEATHER ALERTS

[View all](#)

Los Angeles, CA [Change](#) ▾



62°

Scattered
Clouds
Feels Like 62°



Radar



Forecast



Maps

IMMIGRATION POLICY / EDUCATION: CASE STUDY

- Policy: Changing federal rules around immigration policy and enforcement (2015)
- Problem: Fraud and misinformation taking advantage of residents and discouraging participation
- Approach
 - Program: City partners with accredited institutions to host official educational workshops
 - User needs
 - “Which workshops can I trust?”
 - “How do I find ones close to me?”
 - Intervention
 - Data capture from partnering organizations (simple excel file)
 - Post data to open data portal
 - Create simple, mobile-friendly web app/map for residents to find nearby workshops

WORKSHOPS POSTED ON OPEN DATA



[Data Catalog](#) [Geohub](#) [Blog](#) [Developer Resources](#) [About](#)



[Sign In](#)

Immigration Workshops

Immigration Workshops around the City of Los Angeles.



[More Views](#) [Filter](#) [Visualize](#) [Export](#) [Discuss](#) [Embed](#) [About](#)

Date of event	Organization	Site Name	Location	Start Time	End Time	Language
01/29/2015	CARECEN	AB60 Study Circle, CARECEN	2845 W 7th St Los Angeles CA ...	6:00 PM	8:00 PM	Spanish
01/29/2015	CARECEN	AB60 Study Circle, CARECEN	2845 W 7th St Los Angeles CA ...	6:00 PM	8:00 PM	Spanish
02/04/2015	CARECEN	SEIU,	1651 East 4th Street Santa Ana...	6:30 PM	8:30 PM	Spanish
02/04/2015	CARECEN	SEIU,	1651 East 4th Street Santa Ana...	6:30 PM	8:30 PM	Spanish
02/05/2015	CARECEN	Belmont High School	1575 W 2nd Street Los Angele...	9:00 AM	10:00 AM	Spanish

[< Previous](#) [Next >](#)

Showing Rows 1-100 out of 3,951

Date of event 01/29/2015

Organization CARECEN

Site Name AB60 Study Circle, CARECEN

Location 2845 W 7th St
Los Angeles, CA 90005

Start Time 6:00 PM

End Time 8:00 PM

Language Spanish

Free Free and open to the public, limited space

Notes AB60 Study Session with practice tests

Contact Tessie Borden 213-385-7800 x168 tborden@carecen-la.org

MYIMMIGRATIONLA (DEPRECATED)



Map created by  DataLA

UPCOMING EVENTS

MARK TWAIN BRANCH LIBRARY
CITIZENSHIP CLINIC



MARK TWAIN BRANCH LIBRARY
CITIZENSHIP CLINIC

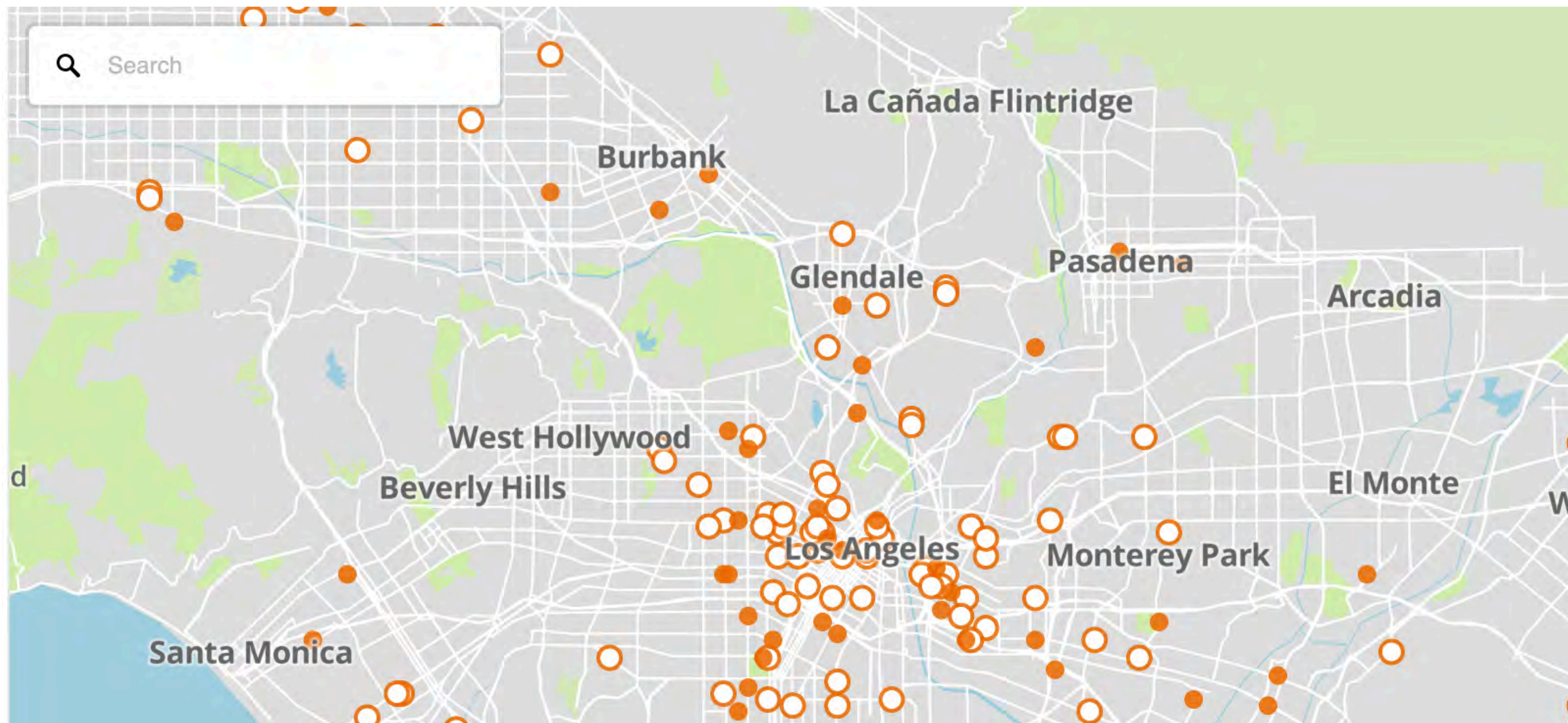
2015-06-02
ENGLISH



2015-06-02
ENGLISH



CURRENT IMMIGRATION WORKSHOP VISUALIZATION (SOCRATA)



**PRO-TIP:
PUT DATA ON A (USEFUL) MAP.**



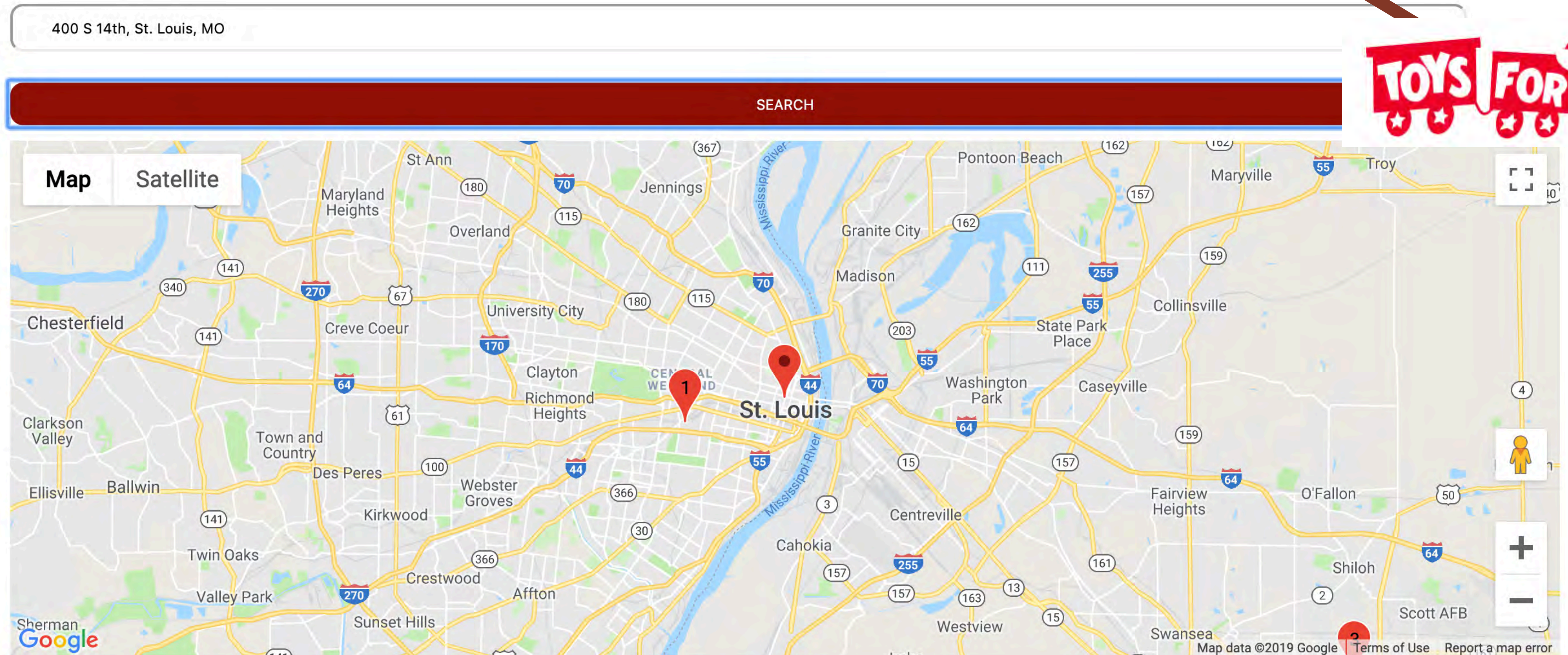
TOYS FOR TOTS

Sometimes you have to scrape by...



TOYS FOR TOTS

NOTE: Locations on the map DO NOT represent the physical location of a campaign. DO NOT appear at the location displayed on the map. Campaigns will notify applicants of final distribution locations if your application can be fulfilled.



TOYS TO TOTS: CASE STUDY

- Problem: Difficult to find where to donate toys during the holiday season
- Approach
 - User needs
 - This website isn't helpful. (Sadly.)
 - “How do I find donation locations close to me?”
 - Intervention
 - Data scraping from Toys for Tots webpage
 - Aggregate and geocode the data with Google Fusion Tables
 - Use open source, GitHub-hosted, mobile-friendly search and map app



DONATION DROP-OFF POINTS

Department of Health & Senior Services

912 Wildwood Drive - For State Employees Only

Department of Health & Senior Services

920 Wildwood Drive - For State Employees Only

Department of Health & Senior Services

930 Wildwood Drive - For State Employees Only

Advance Spinal Rejuvenation

3237 W. Truman Blvd. Suite 101

Bush's Florist

620 Madison St.

Capital 8 Theaters

3600 Country Club Drive

Capital City Chrysler Jeep Ram

3201 Missouri Blvd.

Department of Social Services

615 Howerton - For State Employees Only

Department of Natural Resources

1101 Riverside Drive - For State Employees Only

Five Below

735 Stoneridge Pkwy.

Furniture Factory Outlet

2010 Missouri Blvd.

Missouri Lottery

1823 Southridge

OA Budget & Planning

2nd Floor Capital Building
For State Employees Only

Pizza Hut

3601 Country Club Drive

Riley Chevrolet

2033 Christy Drive

Riley Toyota Scion

2105 Christy drive

River Region Credit Union

2009 Schotthill Woods Drive

River Region Credit Union

3608 Truman Blvd.

River Region Credit union

3124 West Edgewood Drive

Samuel's Tuxedo

236 E. High St.

St. Stanislaus

Wardsville

State Farm Insurance

722 Jefferson St.

GETTING THE DATA

- “Data” typically shared on flyers or in-person
- Main website did not have a CSV, API, or any machine-readable format
- Data had to be scraped from main website
 - Data was posted as an html table
 - Developer used PHP Scraper Gouette
 - More information

DATA HOSTED ON GOOGLE FUSION TABLES

toys-4-tots-donation-locations-2018

abhi.nemani@gmail.com

Google Fusion Tables will not be available after Dec. 3, 2019. [Learn more](#) [Share](#)

File Edit Tools Help

Rows 1 Cards 1 Map of address

Filter

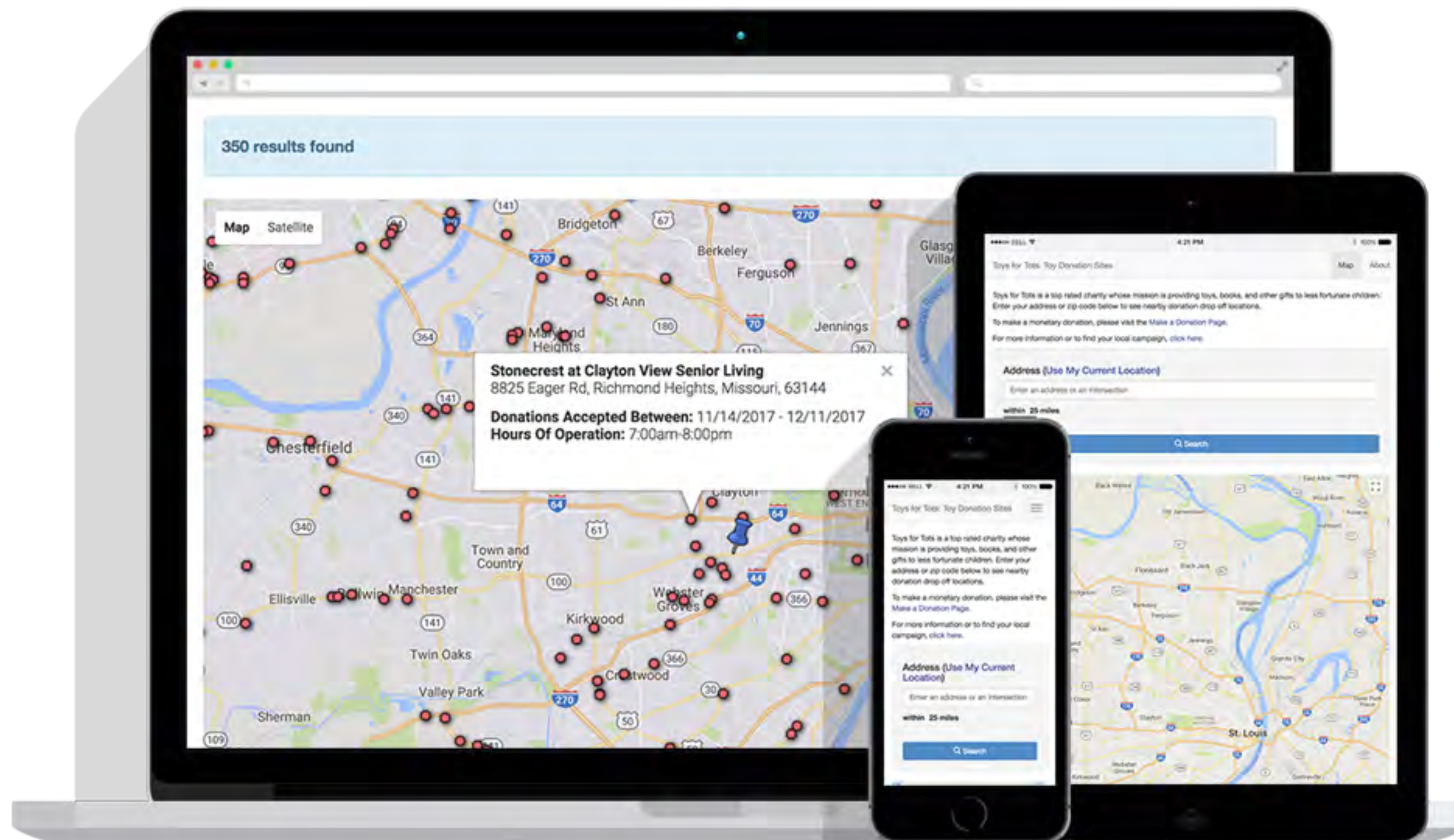
No filters applied

Not saving

1-100 of 20222

county_id	Organization	Address	Phone	Donations Accepted Between	Hours Of Operation	Email
808	Titlemax: Michael Roman GM	2349 Lawrenceville Hwy, Lawrenceville, Georgia, 30044		11/19/2018 - 12/21/2018	M-F 9-7, Sat 10-2, Closed Sunday	
76	Fine Ink Studios (Orlando): Myranda Barnett	11681 S. Orange Blossom Trail , Orlando, Florida, 32837	407-361-3434	11/02/2018 - 12/15/2018	11am-6pm	myrandabarnett96@gmail.com
808	Titlemax: Nadia Pineda	5679 Buford Highway, Doraville, Georgia, 30340		11/13/2018 - 12/21/2018	Monday- Friday 9am-7pm, Saturday 10am-2pm	
772	Pivot Lending Group: Jennifer Sylva	5935 S Zang St, Suite 220, LITTLETON, Colorado, 80127	303-798-6100	11/05/2018 - 12/17/2018	8am to 5pm	
76	Twin Peaks International Drive: Jamie Howie	8350 INTERNATIONAL DR, Orlando, Florida, 32836	407-401-2348	11/12/2018 - 12/15/2018	11am-2am	samsquatch75@gmail.com
808	Titlemax: Liz	210 Scenic Highway, Lawerenceville, Georgia, 30046		11/06/2018 - 12/21/2018	9am-7pm	

DONATEIT.TO BY JOHN KRAMLICH



**GOOD CIVIC TECH IS SOMETIMES
SHORT-LIVED.**



A BIT OF HISTORY



Data capture
FOIA & Scrapers



Personal Databases
CSV, MySQL, etc

Data validation
Geocoding, cleanup, etc



Source Data(base)
Webpages, PDFs
Unstructured data

**HOW IT WAS
(AND STILL IS, A LITTLE)**



Data “Product”
Apps, maps, etc




SCRAPING

Getting something you can work with...



INTERACTIVE BEAUTIFULSOUP TUTORIAL

 DataCamp

Exercise

Parsing HTML with BeautifulSoup

In this interactive exercise, you'll learn how to use the BeautifulSoup package to *parse*, *prettify* and *extract* information from HTML. You'll scrape the data from the webpage of Guido van Rossum, Python's very own [Benevolent Dictator for Life](#). In the following exercises, you'll prettify the HTML and then extract the text and the hyperlinks.

The URL of interest is `url = 'https://www.python.org/~guido/'`.

Instructions 100 XP

- Import the function `BeautifulSoup` from the package `bs4`.
- Assign the URL of interest to the variable `url`.
- Package the request to the URL, send the request and catch the response with a single function `requests.get()`, assigning the response to the variable `r`.
- Use the `text` attribute of the object `r` to return the HTML of the webpage as a string; store the result in a variable `html_doc`.
- Create a BeautifulSoup object `soup` from the resulting HTML using the function `BeautifulSoup()`.
- Use the method `prettify()` on `soup` and assign the result to

script.py

```
1 # Import packages
2 import requests
3 from ____ import ____
4
5 # Specify url: url
6
7
8 # Package the request, send the request and catch the response: r
9
10
11 # Extracts the response as html: html_doc
12
13
```

Run Code Submit Answer

IPython Shell Slides

In [1]:

[Link](#)

BEAUTIFULSOUP EXAMPLE WITH WORKING CODE

The screenshot shows a web interface for the DataCamp community. On the left is a blue sidebar with navigation links: 'COMMUNITY' (with sub-links for News, Tutorials, Cheat Sheets, Open Courses, Podcast - DataFramed, and Chat), and 'DATACAMP' (with links for Official Blog and Tech Thoughts). The top of the page features the DataCamp logo, a search bar, and buttons for 'Log in', 'Create Account', and 'Share an Article'. The main content area displays an article by Sheraz Salahuddin, dated September 17th, 2018, with tags for 'PYTHON' and '+2'. The article title is 'Using Python BeautifulSoup to scrape DataCamp Tutorials & Analyze'. The text of the article states: 'In this tutorial, we are going to scrape the tutorials section of the DataCamp website and try to get some insights.' Below this, it says 'The insights will include but not limited to the following!' followed by a bulleted list: 'Most contributing authors', 'Timeline of contributors (How it all started!)', and 'Comparing upvotes vs. number of articles published'. To the left of the text are engagement metrics: 15 comments and 31 upvotes, along with social media share icons for Facebook, Twitter, and LinkedIn.

DataCamp

COMMUNITY

News **BETA**

Tutorials

Cheat Sheets

Open Courses

Podcast - DataFramed

Chat **NEW**

DATACAMP

Official Blog

Tech Thoughts

Search

Log in

Create Account

Share an Article

Sheraz Salahuddin
September 17th, 2018

PYTHON +2

Using Python BeautifulSoup to scrape DataCamp Tutorials & Analyze

In this tutorial, we are going to scrape the tutorials section of the DataCamp website and try to get some insights.

15

31

f

in

The insights will include but not limited to the following!

- Most contributing authors
- Timeline of contributors (How it all started!)
- Comparing upvotes vs. number of articles published

[Link](#)

IN-BROWSER SCRAPING: GREPSR.COM

2019 Festival & Event Dates

Search Events

[DCASE Homepage](#) > Festival and Event Dates

(event highlights only, subject to change)

2019

African American Designers in Chicago: Art, Commerce and the Politics of Race

Through March 3, 2019
Chicago Cultural Center, Chicago Rooms

www.chicagoculturalcenter.org

Featuring work from a wide range of practices including architectural signage, illustration, graphic design, exhibit this exhibition is the first to demonstrate how African American image of the black consumer and the work of the black American advertising/consumer culture. *African American Commerce and the Politics of Race* is funded in part by American Art and The Richard H. Driehaus Foundation, an exploration of Chicago's art and design legacy.

Chicago Cultural Center Music, Theater & Dance, Exhibitions and More

Year-round

www.chicagoculturalcenter.org

Discover the free visual art and performance programs Center by the Chicago Department of Cultural Affairs and partners.

Department:

Cultural Affairs and Special Events

People We Serve:

Businesses & Professionals

grepsr

[How It Works](#)

[Services](#)

[Customers](#)

[Pricing](#)

[Blog](#)

[Contact Us](#)

Web Scraping Service Platform That's Effortless

We get it. You're tired of learning and configuring complicated tools. Plus, it's taking way more time to structure and make data useable.

Grepsr makes it easy to capture, manage, and analyze data from any website.



chrome web store

[Home](#) > [Extensions](#) > Grepsr - Web Scraping Tool



Grepsr - Web Scraping Tool

Offered by: <https://www.grepsr.com>

★★★★★ 46 | [Productivity](#) | 12,268 users

Add to Chrome

FROM WEBPAGES TO STRUCTURED DATA

grepsrBeta

3 fields

Next

4 timing

EXTRACT
text

SAMPLE DATA
Through March 3, 2019Chicago C...

Cancel

Save Field

African American Designers in Chicago: Art, Commerce and the Politics of Race

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Parents

People with Disabilities

Seniors

Students

Youth/Teens

Additional Information

Chicago Cultural Center Music, Theater & Dance, Exhibitions and More

Year-round

www.chicagoculturalcenter.org

Discover the fr
Center by the
partners.

Maxwell Street Market

Sundays, Year Round, 7am-3pm800 S. Desplaines St.

A Chicago trad
Maxwell Street Market offers an eclectic mix of merchandise – from tools to tires, plus fresh produce, furniture, clothing, rare find and collectibles – plus some of the best Mexican and Latin street food in the city

grepsrBeta

4 fields

Next

f

t

i

Y

Newsletter

FROM WEBPAGES TO SPREADSHEETS (AND SCHEDULED UPDATES)

g

Data Preview

API

JSON

RSS Feed

Schedule Crawl

Data Delivery

Download

Configure & Run

Showing 1 to 25 of 25 records

April 30th 2019 05:29 pm

title	Date	URL	description
African American Designers in Chicago: Art, Rooms	Through March 3, 2019 Chicago Cultural Center, Chicago	http://www.chicagoculturalcenter.org	Featuring work from a wide range of practices including cartooning, sign painting, architectural signage, illustration, graphic design, exhibit design and product design, this exhibition is the first to demonstrate how African American designers remade the image of the black consumer and the work of the black artist in this major hub of American advertising/consumer culture. African American Designers in Chicago: Art, Rooms
Chicago Cultural Center Music, Theater &	Year-round	http://www.chicagoculturalcenter.org	Discover the free visual art and performance programs presented at the Cultural Center by the Chicago Department of Cultural Affairs
Maxwell Street Market	Sundays, Year Round, 7am-3pm 800 S. Desplaines St.	http://www.maxwellstreetmarket.us	
Under the Picasso	Year-round Daley Center, 50 W. Washington St.	http://www.underthepicasso.us	The D weekr
Juicebox	1st & 3rd Fridays (Chicago Cultural Center) 1st & 3rd Saturdays (Garfield)	http://www.chicagoculturalcenter.org	With e gear
Year of Chicago Theater	January-December 2019 Citywide		Mayoi Theatr theatr

Chicago Events | chicago.gov

REPORT

SUPPORT

ASSETS

ACTIVITY

TEAM

SETTINGS

<

April 2019

>

SUN

MON

TUE

WED

THU

FRI

SAT

28

29

30

Data Preview

API

JSON

RSS Feed

Schedule Crawl

Data Delivery

Download

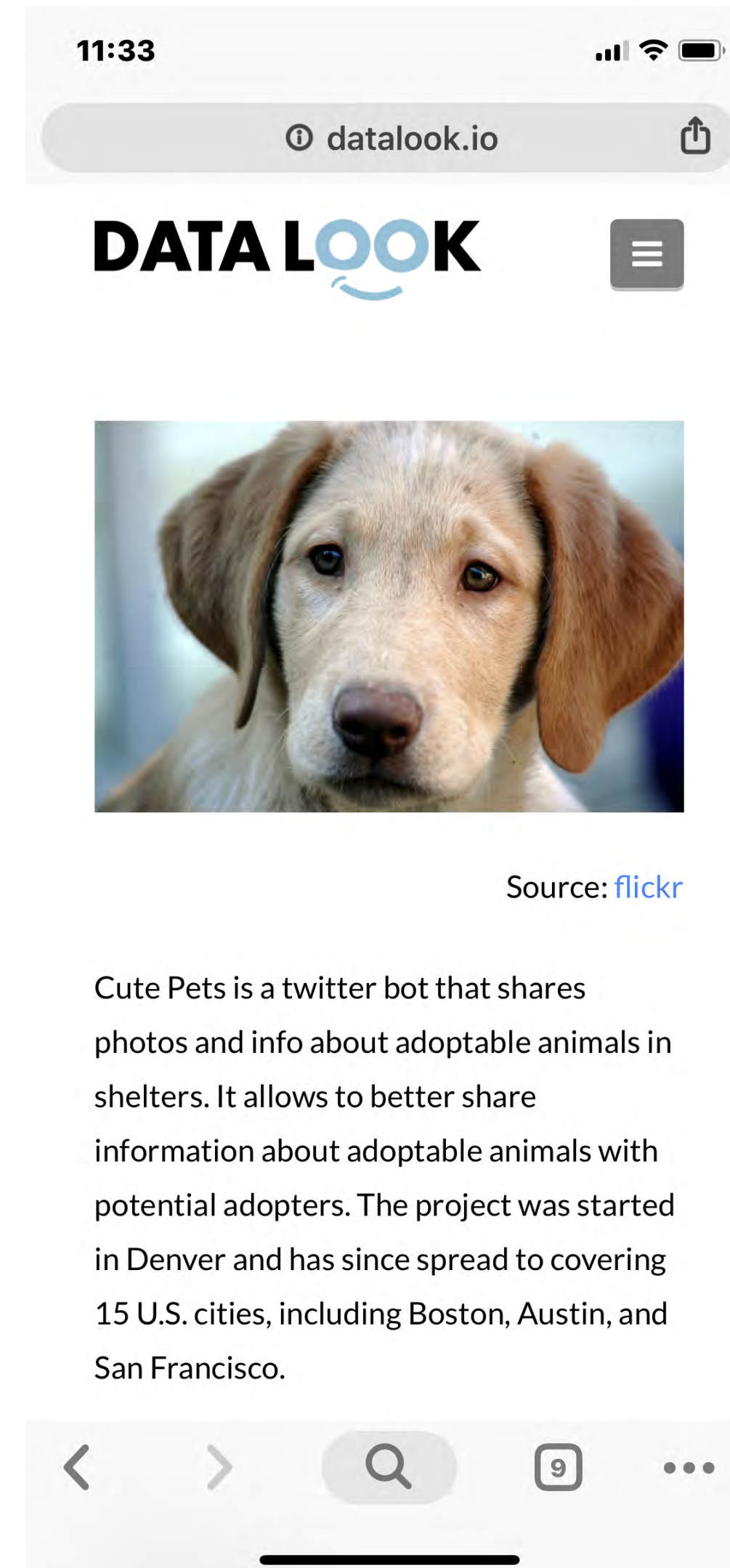
Configure & Run

Schedule your web scraping on-demand!

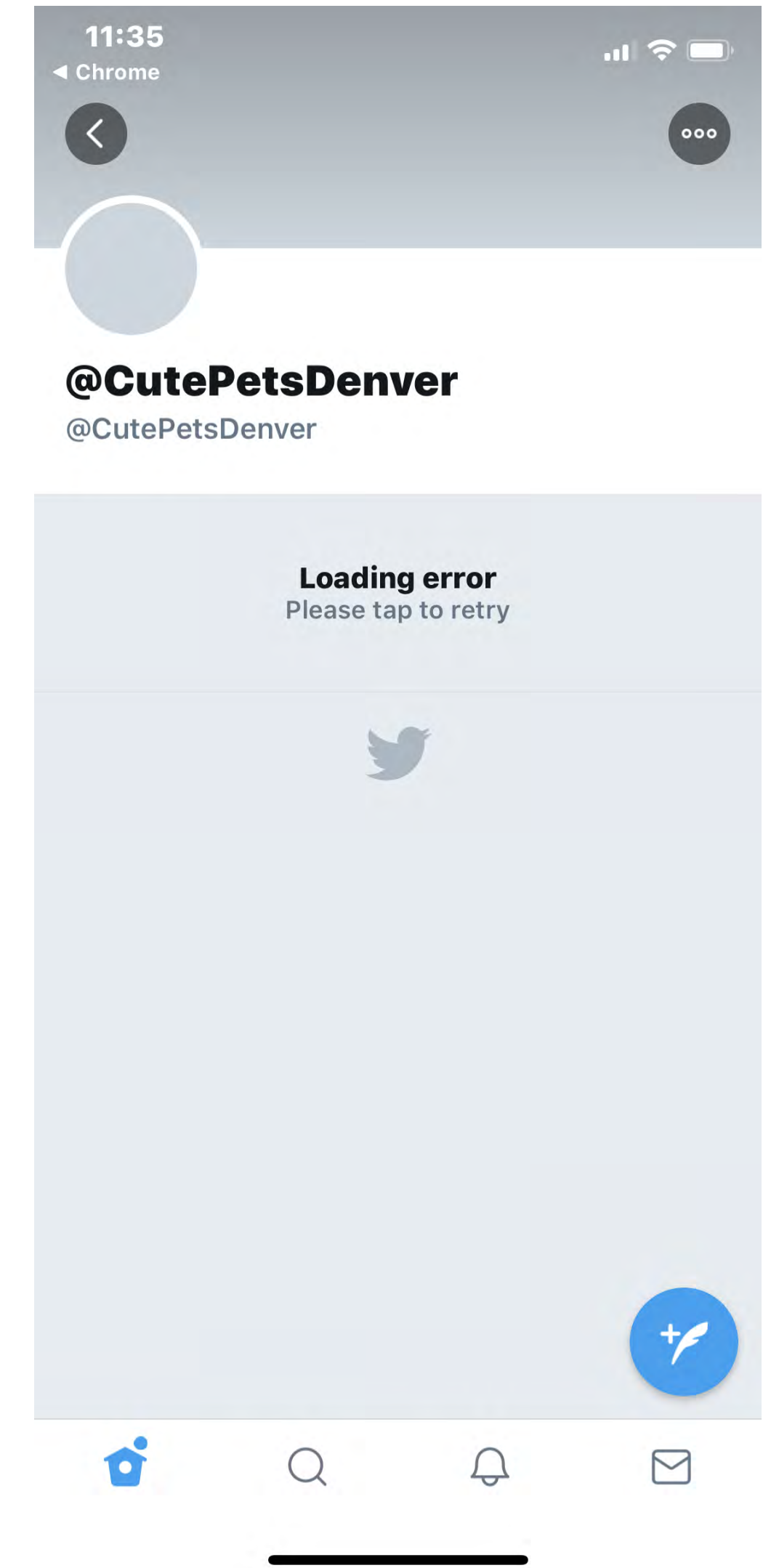
Want to run or re-schedule your scrape on a specific time of a day or date? No problem. Click on the "Add Schedule" button and simply choose the data and time form the calendar and then save it. Yep, it's that simple!

Okay, got it

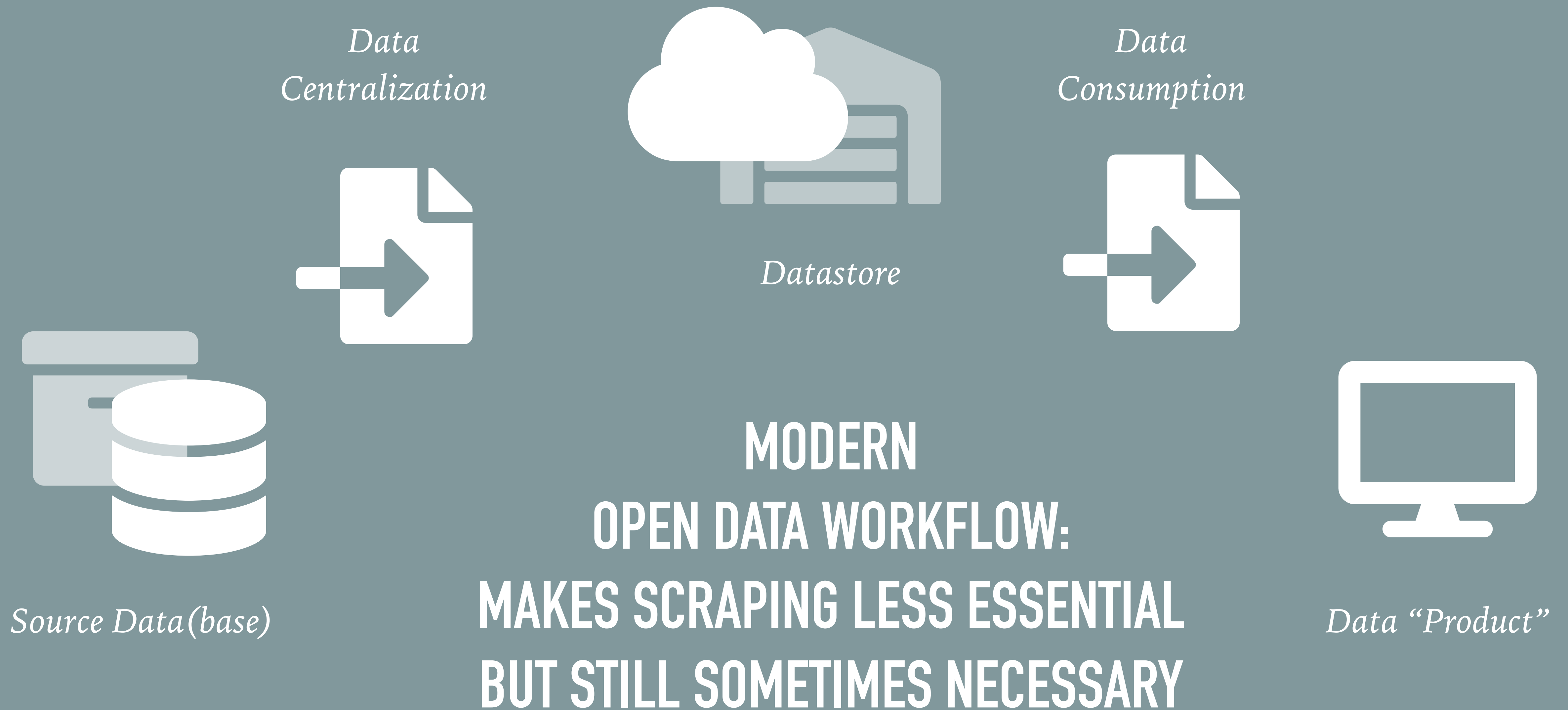
CUTE PETS: THE OPPORTUNITY AND PROBLEM WITH SCRAPING



Cute Pets is a twitter bot that shares photos and info about adoptable animals in shelters. It allows to better share information about adoptable animals with potential adopters. The project was started in Denver and has since spread to covering 15 U.S. cities, including Boston, Austin, and San Francisco.



A team built a twitter bot powered by a web scraper to tweet out pictures of adoptable pets. It was redeployed a dozen times. But the webpage changed and the code wasn't maintained so the scraper and the bot broke.





GEOCODING & WEB MAP MAKING

Addresses are just the start

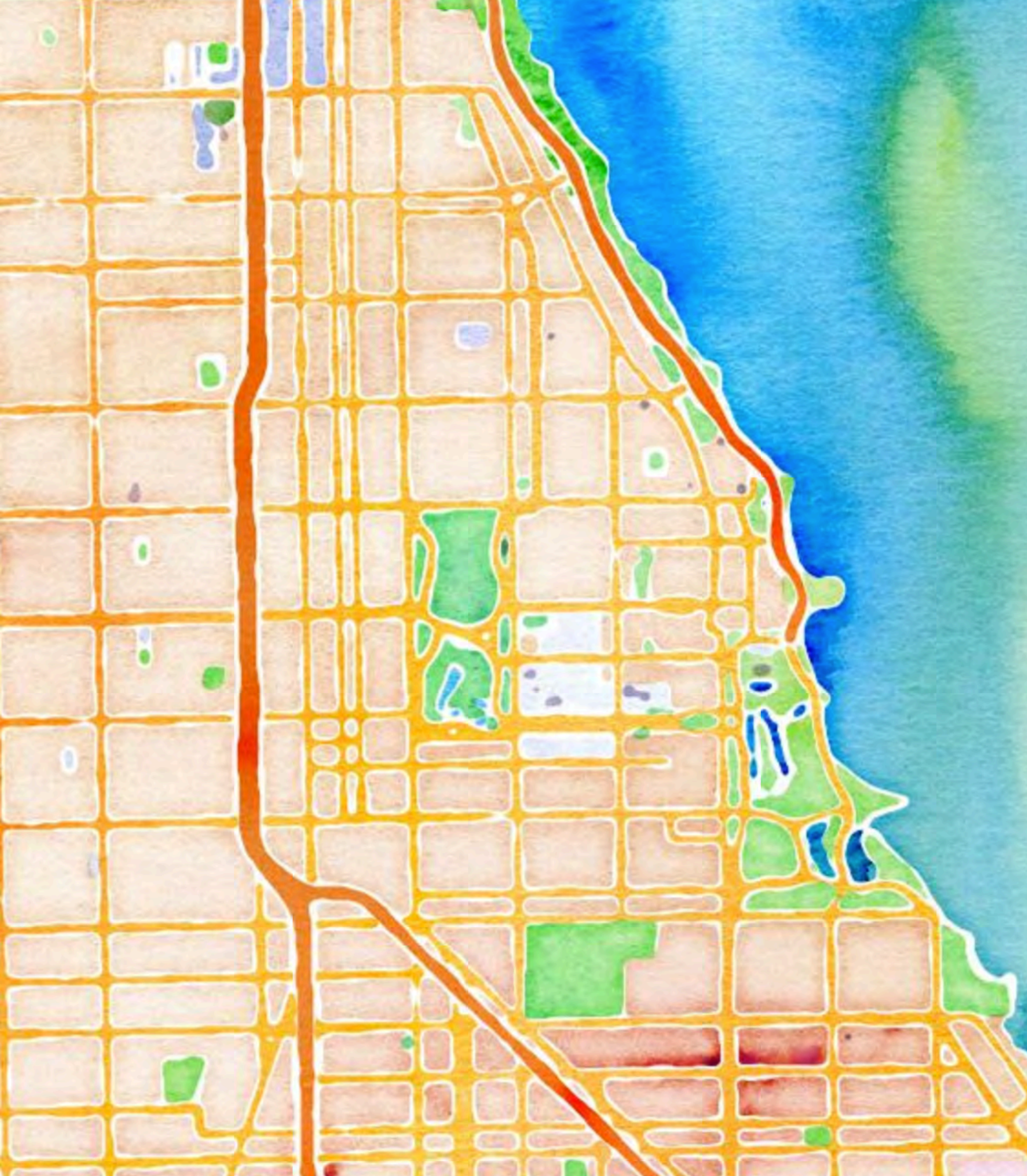


GEOCODING

- Geocoding is the process of going from a street address to a “coordinate plane”
 - Typically (and ideally) latitude & longitude (ie lat/long)
- Web mapping services require lat/long
 - Addresses can be ambiguous
 - Same streets in many cities
- Geocoding services can be expensive
 - Popular geocoding services: Google Maps, CARTO, Esri, Mapquest
 - Some governments/companies have their own geocoding services

THREE (FREE) MAPPING OPTIONS

- Socrata
 - Government must have Socrata
 - Government must have set up geocoding/geo-referencing
- Google Maps / Fusion Tables
 - Fusion Tables requires little-to-no coding, but will be deprecated EOY
 - Google Maps costs \$ and requires database/coding
- Mapbox
 - Data must have lat/long already
 - Requires some coding
 - Javascript



MAP MAKING WITH SOCRATA

Eric Garcetti
@MayorOfLA

Data Catalog Geohub Blog Developer Resources About

Abhi Nema

Immigration Workshops A Well Run City

View Data Visualize Export API ...

Create Visualization

Immigration Workshops around the City of Los Angeles

Configure Visualization

Add Filter

Feature

← Layer List

Immigration Workshops

Data Selection

Geo Column

Location

Resize Points by Value

None

Style by Value

None

Point Aggregation

1010 Wilshire, 1010 Wilshire Bl

Wilton Historic District

Koreatown

Alvarado Terrace Historic District

Saint James Park

Angelino Heights

Lincoln Heights

Share and Embed

Web Link

<https://data.lacity.org/d/3a2c-g6zu>

iFrame Embed JS Embed

Embed Code

```
<iframe src="https://data.lacity.org/dataset/Immigration-Workshops-Map/3a2c-g6zu/embed?width=800&height=600" width="800" height="600" style="border:0; padding: 0; margin: 0;"></iframe>
```

- 1) Select dataset
- 2) “Visualize”
- 3) Select Map
- 4) Save draft
(requires account)
- 5) Click “share” icon
to embed or share link

MAP MAKING WITH FUSION TABLES

1. Download excel-file / CSV with some address data
2. Open fusion tables and upload data file
3. Identify which column has location data
4. Create map view (and wait for geocoding)
 1. Provide disambiguation help (eg State, County, etc) if possible
5. Customize tooltip and icons
6. Publish

MAP MAKING WITH FUSION TABLES

Public_Health_Department

Imported at Tue Apr 30 21:30:14 PDT 2019 from Public_Health_Department.csv
Edited at 23:30

File Edit Tools Help

Rows 1

Filter No filters applied

Configure map

Location Address

Feature map

Change feature styles...

Change info window...

Heatmap

abhi.nemani@gmail.com

Google Fusion Tables will not be available after Dec. 3, 2019. [Learn more](#)

Share

Saved 430 rows

Done

Geocode

Use the Google Maps Geocoding service to place addresses on the map. [Learn more](#)

Location column

Address

Geocoding only uses location information in the selected column

▼ Add location hint

Chicago, IL

The general area of these locations. Examples: "France" or "Chicago, IL"

Geocoding paused

Geocoded 4 of at least 426 ungeocoded rows

Quality: 25% ambiguous

Resume geocoding

Cancel

Configure map

Location Address

Feature map

Change feature styles...

Change info window...

Heatmap

Map Satellite

Chicago

Map data ©2019 Google

2 km

Terms of Use

Report a map error

MAP/APP MAKING WITH FUSION TABLES: EDER'S SEARCHABLE MAP

Searchable Map Template

MapAbout

This is a demo of [Derek Eder's Searchable Map Template](#) using Google [Fusion Tables](#). Use this section to give a little context to your map.

Address [\(find me\)](#)

Enter an address or an intersection

within 1/2 mile

Custom filters and views

Take a look at the [wiki](#) to see how to add your own custom filters and views like:

- [Checkboxes](#)
- [Radio buttons](#)
- [Drop down lists](#)
- [Text searches](#)

- [Sliders](#)
- [Date sliders](#)
- [Results lists](#)

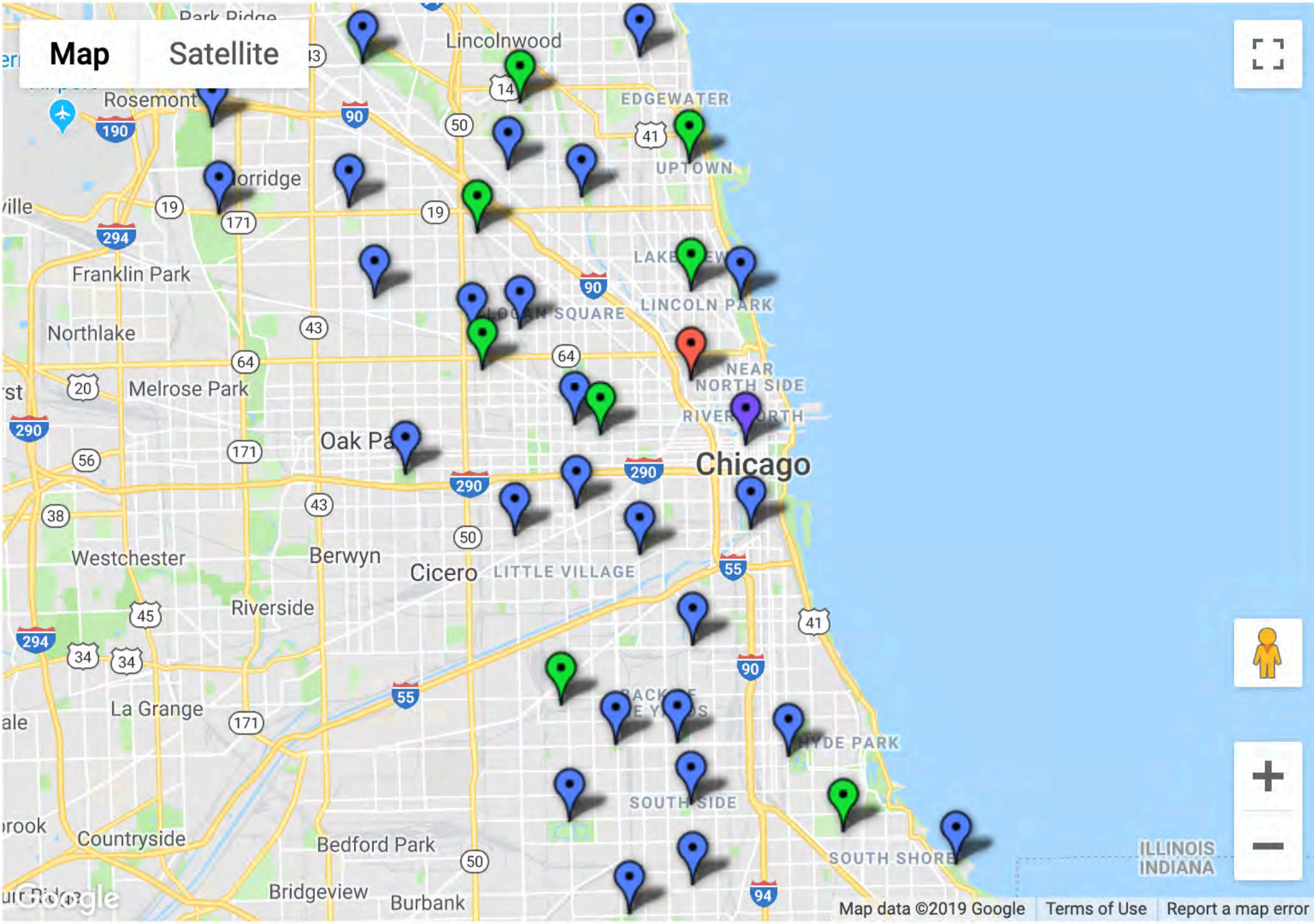
Search

Reset

41 results found

derekeder.github.io/FusionTable-Map-Template/index.html

MapSatellite



Map data ©2019 Google Terms of Use Report a map error

Searchable Map Template by Derek Eder.

Features

- full screen, iframe and content templates
- display up to 100,000 map points
- address search (with variable radius and geocomplete)
- geolocation (find me!)
- results count
- RESTful URLs for sharing searches
- ability to easily add additional search filters (checkboxes, sliders, etc)
- mobile and tablet friendly using responsive design
- built with HTML, CSS and Javascript - no server side code required

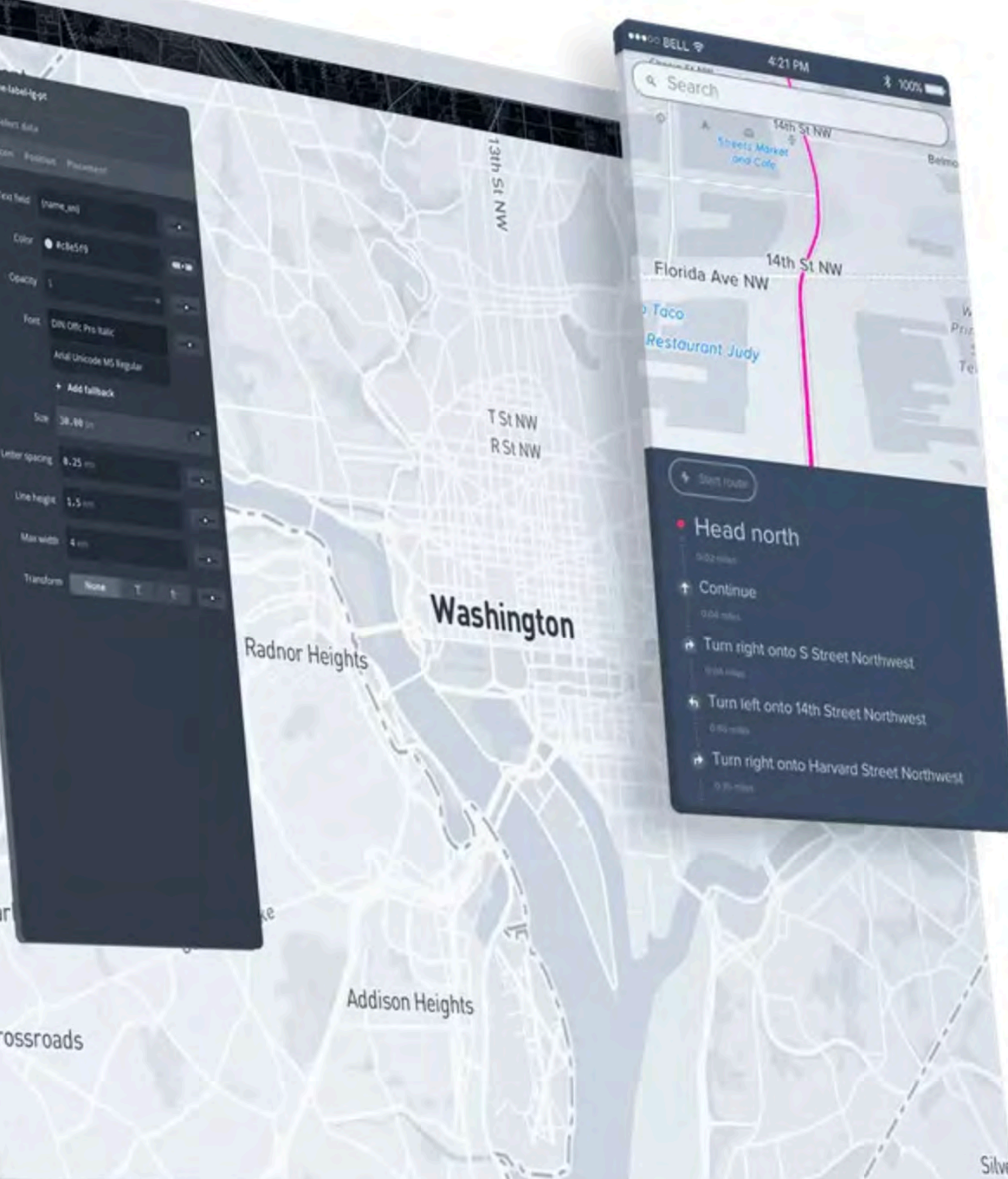
To embed, you can use the following code on your page:

```
<iframe
  style="border-style: none;"
  src="/path/to/map-template/index_iframe.html"
  width="600"
  height="950" >
</iframe>
```

Instructions Link: <https://github.com/derekeder/FusionTable-Map-Template>

MAPBOX FOR MAPPING

- MapBox is built on open source code and open data
- Free for testing / development
- Built initially for map styling; now serves as (mostly) full-service map web service
- Three kinds of core elements
 - **Datasets:** Geo-coded datafiles
 - GeoJSON, JSON, CSV, KML, etc
 - **Tilesets:** Vector-files with base-layers and custom datasets
 - **Styles:** Designed / styled maps for use in app-development



MAPBOX: SEARCHABLE / EMBEDDABLE MAP

mapbox | Docs

MapsNavigationSearchAll docsHelpSign in

HelpTutorials

Getting started

Upload the data as a tileset

Create a map

Add the geocoder

Place a marker on the map

Add the Tilequery API

Tilequery API request format

Set up the Tilequery API call

Display store locations

Add popups for each store

Intermediate JavaScript

Make a healthy food finder with the Tilequery API

Prerequisite

Familiarity with front-end development concepts.

This tutorial demonstrates how you can combine your own custom geospatial data, the Tilequery API, and Mapbox's global address and place data using the Geocoding API to create a cohesive, custom reverse search experience for your users.

Upload the data as a tileset

A [tileset](#) is a collection of raster or vector data broken up into a uniform grid of square tiles. Tilesets are highly cacheable and load quickly, and help Mapbox maps load quickly. In this step, you will upload the food store location to Mapbox as a new tileset so that you can access it in later steps.

1. Log into [Mapbox Studio](#) and navigate to the [Tilesets page](#).
2. Click the **New tileset** button.
3. Click the **Select a file** button and navigate to the location in which you saved the `food_stores.csv` file.
4. Select `food_stores.csv` , then click **Confirm**.
5. When the upload successfully finishes, it will appear at the top of the custom tilesets list on your Tilesets page.
6. Click on the **Menu** button next to the new tileset's name. Find the *Map ID*, which is the tileset's unique identifier. You will need to use this in a later step, so remember where you found it!



Instructions Link: <https://docs.mapbox.com/help/tutorials/tilequery-healthy-food-finder/>

LECTURE 10 ASSIGNMENT (ASSIGNED 5/1)

- Writing Assignment / Midterm (more on next slide)
 - Memo to the New Mayor: 1 page, single-spaced; Due 5/13
- Project Work
 - Request GitHub Student Pack: <https://education.github.com/pack>
 - *Begin* to follow instructions on creating interactive map
(next element of Civic Hacker Toolkit):
<https://docs.mapbox.com/help/tutorials/tilequery-healthy-food-finder/>
 - Code samples for reference:
 - mapbox-searchable-map: <https://github.com/abhinemani/mapbox-searchable-map>
 - fusiontables-searchable-map: <https://github.com/abhinemani/fusiontables-searchable-map>
 - JKAN Pages: [fusiontables embed](#), [mapbox-map](#), [Mapbox-embed](#)

WRITING ASSIGNMENT: MEMO TO THE NEW MAYOR

- By now, you should have read perspectives on civic data from dozens of industry leaders and practitioners, heard about how it has been implemented by the government and used by residents, and even worked with some yourself. To assess your comprehension of this material, you are to write a **1-page, single-spaced memo/briefing** for the new mayor of Chicago on the role you see technology playing in the city government.
- This can focus *on any or all* of the topics covered to date: data-driven decision making and policy, lean principles, user needs (empathy), open data, and community engagement. You should answer three questions: 1) what's working; 2) what's not; and 3) what (if anything) to focus on for the next 4 years? You should include what you have learned about Chicago, as well as other cities/governments regarding **policies, programs, systems, and tools**. Your grade will be measured on grasp of the materials, as well as evidence of your own thinking/perspective.
- Due: Wednesday, 5/13, at the beginning of class