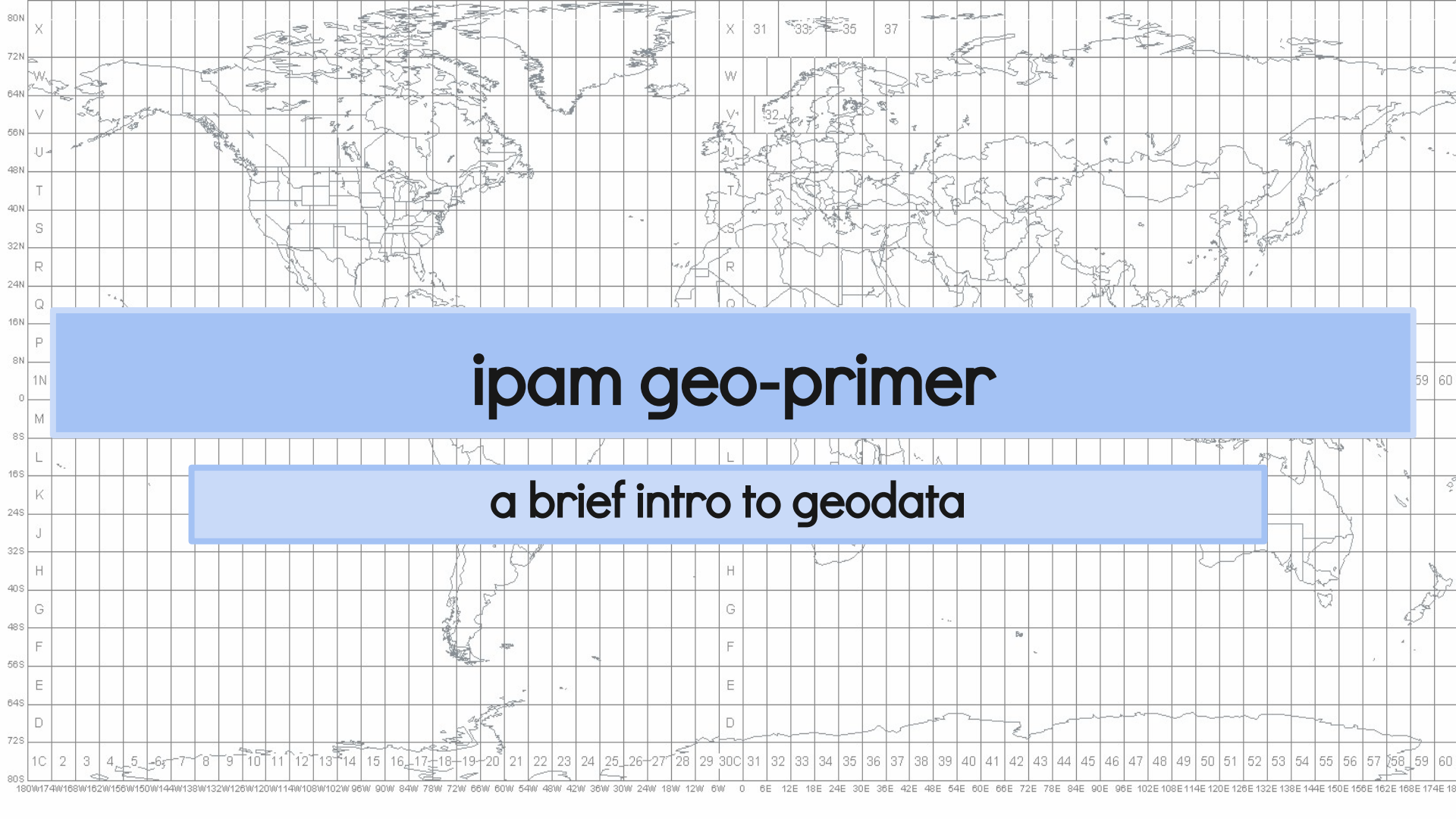
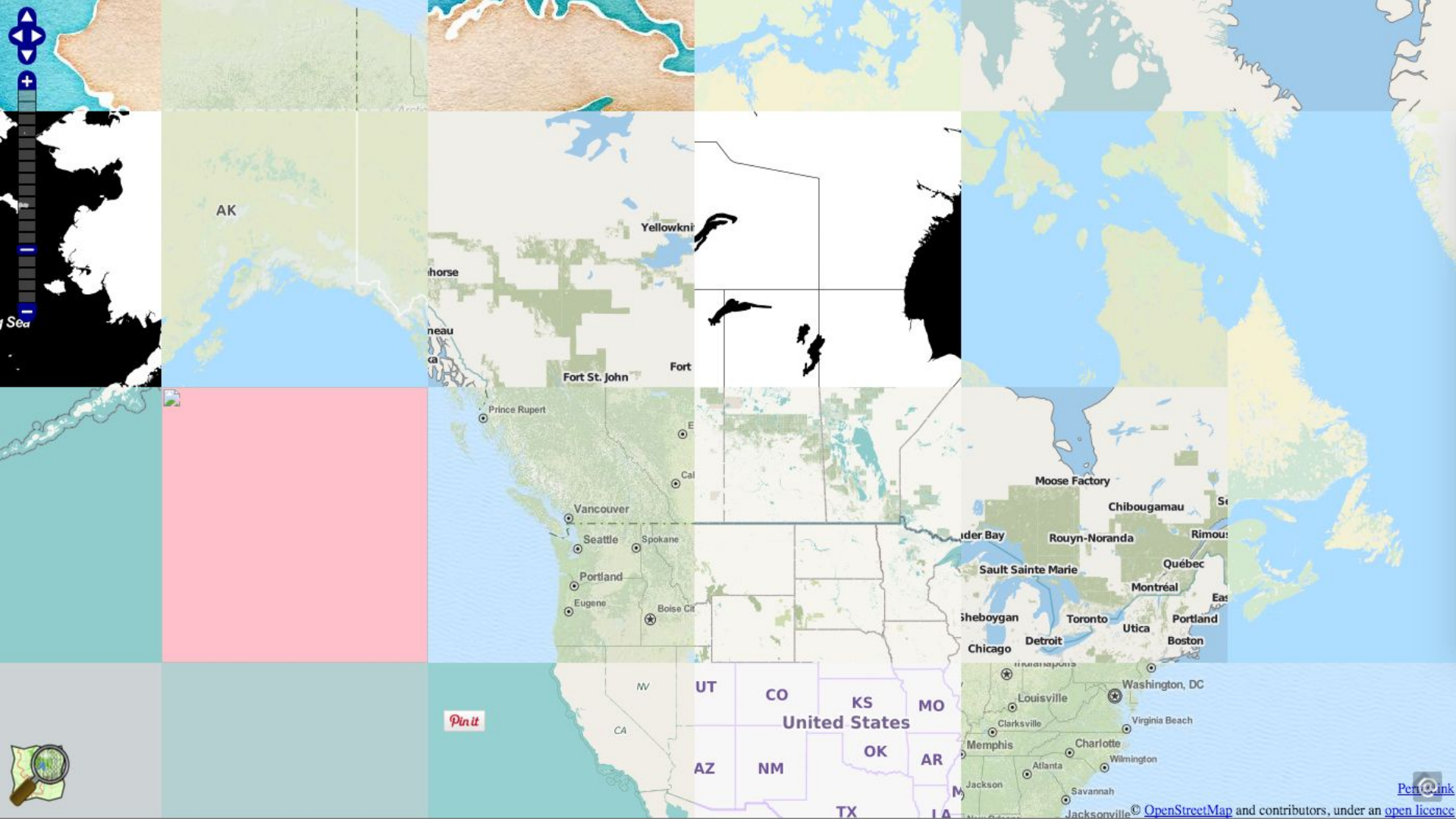


A world map with a latitude and longitude grid. Latitude lines are labeled from 80N to 80S in increments of 8. Longitude lines are labeled from 180W to 180E in increments of 2. The map shows the outlines of continents and oceans. A large blue rectangular box is overlaid on the map, containing the text 'ipam geo-primer'. A smaller, lighter blue rectangular box is also overlaid on the map, containing the text 'a brief intro to geodata'.

ipam geo-primer

a brief intro to geodata



AK

Yellowknife

horse

neau

Fort St. John

Fort

Prince Rupert

Vancouver

Seattle

Spokane

Portland

Eugene

Boise

UT

CO

KS

MO

United States

AZ

NM

OK

AR

TX

LA

Moose Factory

Chibougamau

Ider Bay

Rouyn-Noranda

Rimou

Sault Sainte Marie

Québec

Montréal

Portland

Boston

Chicago

Detroit

Sheboygan

Toronto

Utica

Washington, DC

Louisville

Clarksville

Memphis

Atlanta

Jackson

Virginia Beach

Charlotte

Wilmington

Savannah

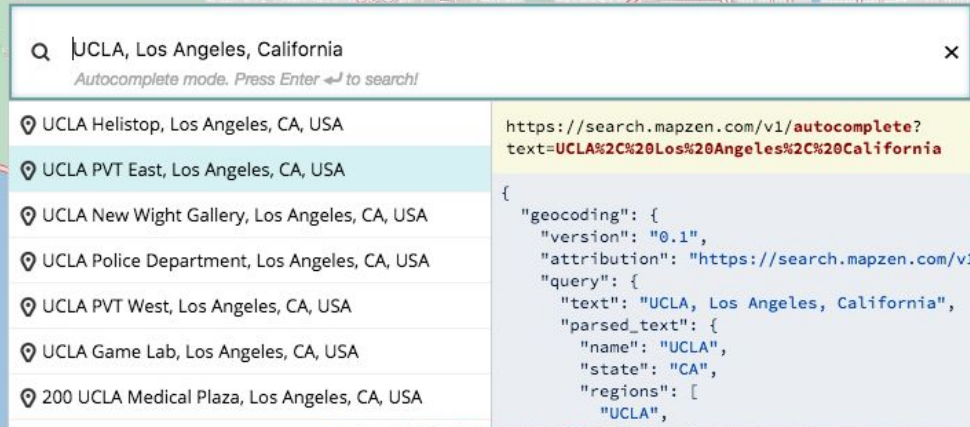
Jacksonville

Print

OpenStreetMap

© OpenStreetMap and contributors, under an open licence

you are here.



Q |UCLA, Los Angeles, California X

Autocomplete mode. Press Enter ↵ to search!

- 📍 UCLA Helistop, Los Angeles, CA, USA
- 📍 UCLA PVT East, Los Angeles, CA, USA
- 📍 UCLA New Wight Gallery, Los Angeles, CA, USA
- 📍 UCLA Police Department, Los Angeles, CA, USA
- 📍 UCLA PVT West, Los Angeles, CA, USA
- 📍 UCLA Game Lab, Los Angeles, CA, USA
- 📍 200 UCLA Medical Plaza, Los Angeles, CA, USA

```
{
  "geocoding": {
    "version": "0.1",
    "attribution": "https://search.mapzen.com/v1",
    "query": {
      "text": "UCLA, Los Angeles, California",
      "parsed_text": {
        "name": "UCLA",
        "state": "CA",
        "regions": [
          "UCLA",

```

Address:

460 Portola Plaza
Los Angeles, CA 90095

GPS:

34° 4' 12.9288" N
118° 26' 30.6636" W

Lat/Lon:

(34.070258,
-118.441851)

Points

[34.070258, -118.441851]

Lines:

[[[-73.94042058,40.7010766],
[-73.94020564,40.70112431]]]

Polygons:

[[[[25.54374272,5.37528025],
[25.56182947,5.37300649],
[25.57505863,5.37491852]...]]]



Falsehoods programmers believe about addresses

Perhaps you've read posts like [Falsehoods Programmers Believe About Names](#) and [Falsehoods programmers believe about time](#). Maybe you've also read [Falsehoods programmers believe about geography](#).

Addressing is a fertile ground for incorrect assumptions, because everyone's used to dealing with addresses and 99% of the time they seem so simple. Below are some incorrect assumptions I've seen made, or made myself, or had reported to me. (If you want to look up an address for a UK postcode or vice-versa to confirm what I'm telling you, try the [Royal Mail Postcode Finder](#))

- **An address will start with, or at least include, a building number.**

Counterexample: Royal Opera House, Covent Garden, London, WC2E 9DD, United Kingdom.

- **When there is a building number, it will be all-numeric.**

Counterexample: 1A Egmont Road, Middlesbrough, TS4 2HT

4-5 Bonhill Street, London, EC2A 4BX

- **No buildings are numbered zero**

Counterexample: 0 Egmont Road, Middlesbrough, TS4 2HT

- **Well, at the very least no buildings have negative numbers**

Guy Chisholm provided this counterexample: Minusone Priory Road, Newbury, RG14 7QS

(none of the databases I've checked render this as -1)

- **We can put those funny numbers into the building name field, as no buildings have both a name and a funny number**

Counterexample: Idas Court, 4-6 Princes Road, Hull, HU5 2RD

- **When there's a building name, there won't be a building number (or vice-versa)**

Counterexample: Flat 1.4, Ziggurat Building, 60-66 Saffron Hill, London, EC1N 8QX, United Kingdom

- **A building number will only be used once per street**

The difference between 50 Ammanford Road, Tycroes, Ammanford, SA18 3QJ and 50 Ammanford Road, Llandybie, Ammanford, SA18 3YF is about 4 miles ([Google Maps](#)).

- **When there's line with a number in an address, it's the building number.**

Counterexample: Flat 18, Da Vinci House, 44 Saffron Hill, London, EC1N 8FH, United Kingdom

You also get suite numbers, floor numbers, unit numbers, and organisations with numbers in their names.

Adrien Piérard contributes an address from Japan with fifteen digits in six separate numbers (five if you count the zip code as a single number). The format is: 980-0804 (zip code), Miyagi-ken (prefecture) Sendai-shi (city) Aoba-ku (ward) Kokubuncho (district) 4-10-20 (sub-district-number block-number lot-number) Sendai (building name) 401 (flat number).

- **OK, the first line starting with a number then**

Counterexample: 3 Store, 311-318 High Holborn, London, WC1V 7BN

<http://tinyurl.com/faux-geo>



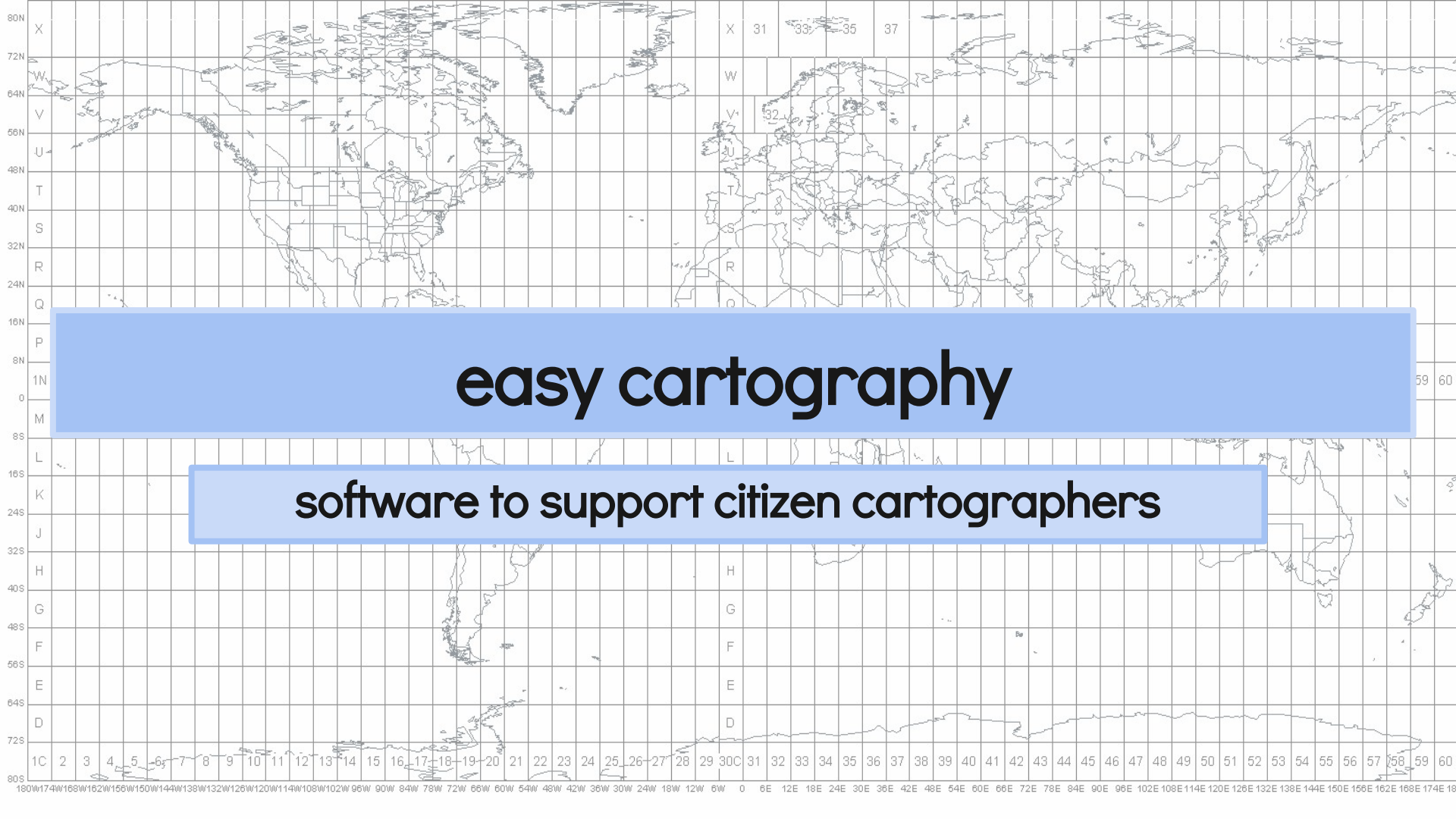
(35.951389, -85.084999) ✕

(56.965144, 26.311047) ✕

(43.983497, 1.911397) ✕

(41.886253, 2.875169) ✕

(49.910895, 15.390794) ✕



easy cartography

software to support citizen cartographers

Format

CSV files have one line for each feature (record) in the layer (table). The attribute field values are separated by commas. At least two fields per line must be present. Lines may be terminated by a DOS (CR/LF) or Unix (LF) style line terminators. Each record should have the same number of fields. The driver will also accept a semicolon, a tabulation or a space (GDAL >= 2.0 for the later) character as field separator. This autodetection will work only if there's no other potential separator on the first line of the CSV file. Otherwise it will default to comma as separator.

Complex attribute values (such as those containing commas, quotes or newlines) may be placed in double quotes. Any occurrences of double quotes within the quoted string should be doubled up to "escape" them.

By default, the driver attempts to treat the first line of the file as a list of field names for all the fields. However, if one or more of the names is all numeric it is assumed that the first line is actually data values and dummy field names are generated internally (field_1 through field_n) and the first record is treated as a feature. Starting with GDAL 1.9.0 numeric values are treated as field names if they are enclosed in double quotes. Starting with GDAL 2.1, this behaviour can be modified via the HEADERS open option.

All CSV files are treated as UTF-8 encoded. Starting with GDAL 1.9.0, a Byte Order Mark (BOM) at the beginning of the file will be parsed correctly. From 1.9.2, The option WRITE_BOM can be used to create a file with a Byte Order Mark, which can improve compatibility with some software (particularly Excel).

Example (employee.csv):

```
ID,Salary,Name,Comments
132,55000.0,John Walker,"The "big" cheese."
133,11000.0,Jane Lake,Cleaning Staff
```

Note that the Comments value for the first data record is placed in double quotes because the value contains quotes, and those quotes have to be doubled up so we know we haven't reached the end of the quoted string yet.

Many variations of textual input are sometimes called Comma Separated Value files, including files without commas, but fixed column widths, those using tabs as separators or those with other auxiliary data defining field types or structure. This driver does not attempt to support all such files, but instead to support simple .csv files that can be auto-recognised. Scripts or other mechanisms can generally be used to convert other variations into a form that is compatible with the OGR CSV driver.

Reading CSV containing spatial information

Building point geometries

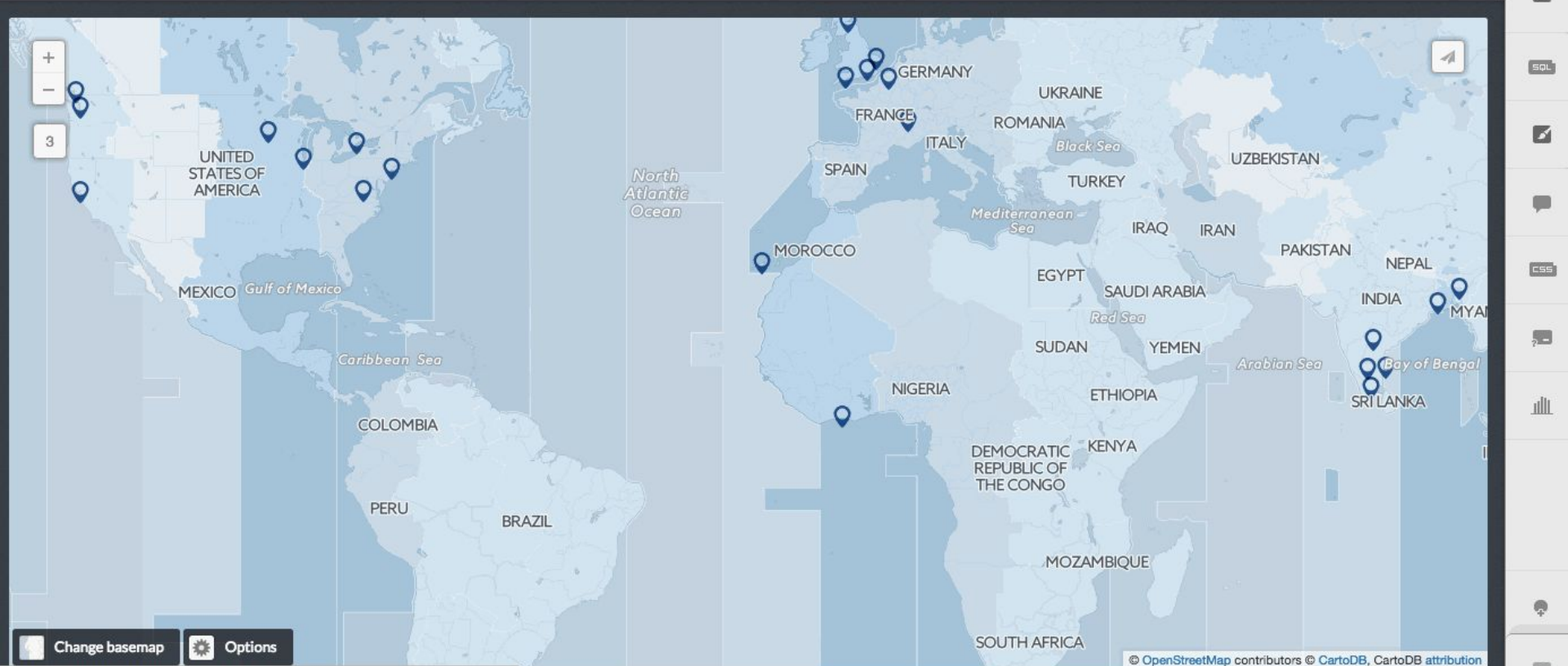
Consider the following CSV file (test.csv):

```
Latitude,Longitude,Name
48.1,0.25,"First point"
49.2,1.1,"Second point"
47.5,0.75,"Third point"
```

Starting with GDAL 2.1, it is possible to directly specify the potential names of the columns that can contain X/longitude and Y/latitude with the X_POSSIBLE_NAMES and Y_POSSIBLE_NAMES open option.

`ogrinfo -ro -al test.csv -oo X_POSSIBLE_NAMES=Lon* -oo Y_POSSIBLE_NAMES=Lat* -oo KEEP_GEOM_COLUMNS=NO` will return :

OGRFeature(test):1





CARTÔDB



about



data and resources



contact



challenge



Landquest, social science journalism

Investigations:



CartoDB / carto**db**

Unwatch

Geospatial database for the cloud <http://www.cartodb.com> — Edit

20,566 commits

501 branches

49 releases

47 contributors

branch: master carto**db** / +

Merge pull request #2054 from CartoDB/fix-stalled-upgrade-script

rafatower authored 14 hours ago

latest commit 5bb8e205a3

app	Merge pull request #2054 from CartoDB/fix-stalled-upgrade-script	14 hours ago
config	Merge pull request #2005 from CartoDB/1651-Google_signin	15 hours ago
db	Merge pull request #2005 from CartoDB/1651-Google_signin	15 hours ago
doc	Add start skeleton for frontend docs	19 days ago
engines	Add engines dir	2 years ago
lib	Merge pull request #2054 from CartoDB/fix-stalled-upgrade-script	14 hours ago
public	changes location of alpha marker to assets	2 days ago
script	Activating more features for local/dev users	2 months ago
services	Merge branch 'master' of github.com:CartoDB/cartodb into 1978-Import...	19 hours ago
spec	Automated password-protected file test	18 hours ago
tmp	Add tmp folder to the repo and fix wrong javascript filenames in asse...	4 years ago
vendor	Merge pull request #2005 from CartoDB/1651-Google_signin	15 hours ago
.gitignore	State variable dependencies explicitly	2 months ago
.gitmodules	Replace lib/sql by the carto db -postgresql submodule	9 months ago

code

<> Code

Issues 332

Pull Requests 8

Wiki

Pulse

Graphs

Settings

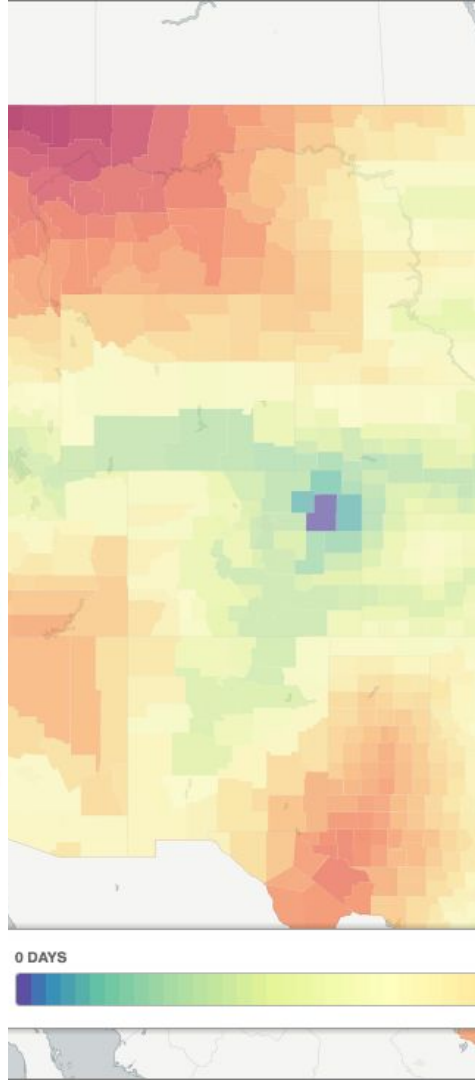
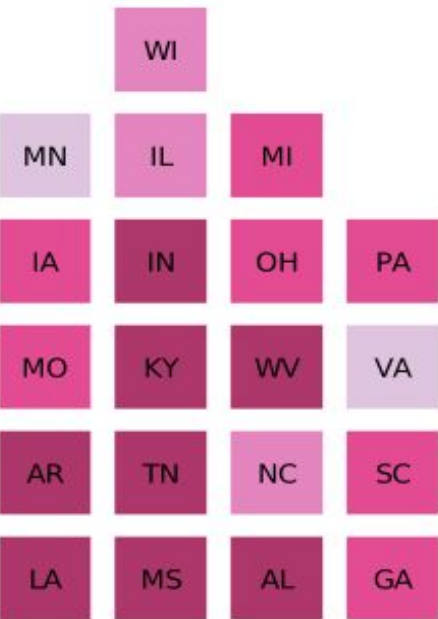
SSH clone URL

git@github.com:Carto

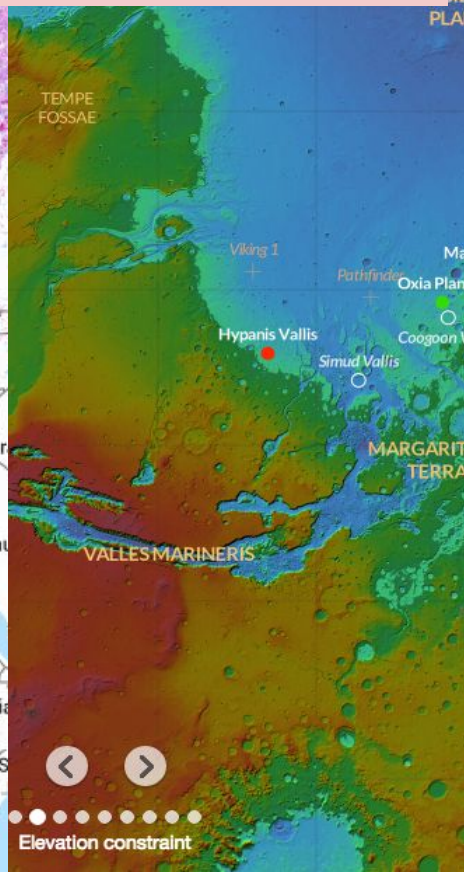
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

Download ZIP



projects

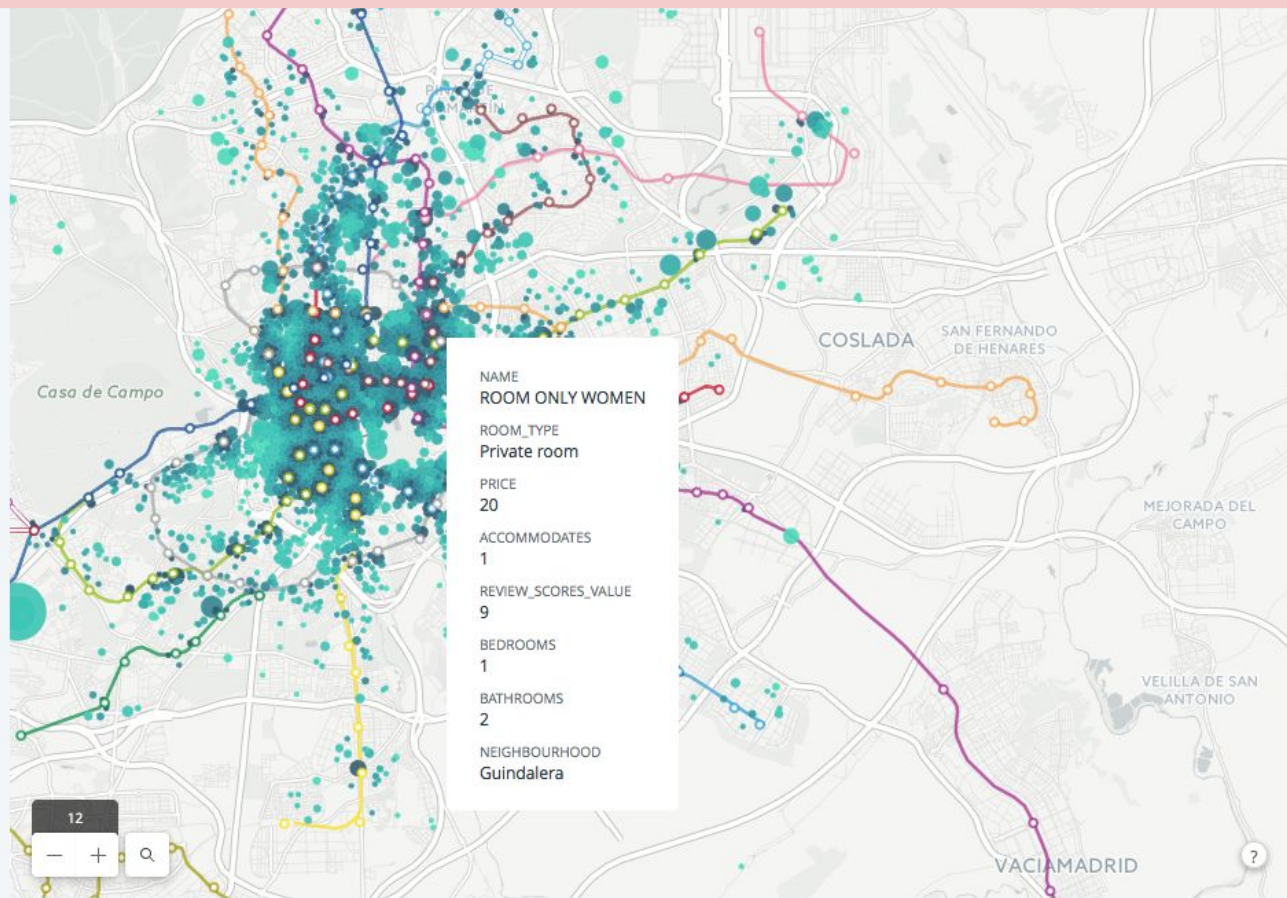


product



Global_Sprint_2016 copy								
Edit metadata...								
DATA VIEW MAP VIEW Edit PUBLISH								
cartodb_id ▾	the_geom 	address ▾	cartodb_georef_status ▾	city ▾	country ▾	host ▾	link ▾	
number	geometry	string	boolean	string	string	string	string	
1	-79.4163, 43.7001	366 Adelaide St W Suite 500	true	Toronto	Canada	Abby Cabunoc Mayes	https://ti.to/mozill	
2	-16.5231, 28.3908	Carretera TF-324-La Punta, N° 189 Bajo, La Per...	true	La Orotava	Spain	Tanausú Hernández Yanes	https://ti.to/mozill	
3	6.1457, 46.2022	385 Route de Meyrin, 1217 Meyrin	true	Geneva	Switzerland	Achintya Rao	https://ti.to/mozill	
4	78.1196, 9.9174	187, Veera Kaliyamman Koil Street	true	Madurai	India	Mohammed Ammar	https://ti.to/mozill	
5	115.8614,-31.9522	Cisco Internet of Everything Innovation Centre,...	true	Perth	Australia	Andrea Bedini	https://ti.to/mozill	
6	153.0281,-27.4679	Axon Building (#47) The University of Queenslan...	true	Brisbane	Australia	Belinda Weaver	https://ti.to/mozill	
7	144.9633,-37.8140	The University of Melbourne (Colab space in Old...	true	Melbourne	Australia	Alistair Walsh	https://ti.to/mozill	
8	-122.2728, 37.8716		true	Berkeley	USA	Kirstie Whitaker	https://ti.to/mozill	
9	-74.0060, 40.7143		true	New York	USA	Kaitlin / Aurelia	https://ti.to/mozill	
10	-122.3321, 47.6062	WRF Data Science Studio, 6th Floor Physics-Ast...	true	Seattle	USA	Stephanie Wright + 1	https://ti.to/mozill	
11	78.4564, 17.3840	Collab House, A-32, Film Nagar, Road No.5, Jubil...	true	Hyderabad	India	Galaxy Kadiyala	https://ti.to/mozill	
12	80.2785, 13.0878	TBA	true	Chennai	India	Karthickeyan	https://ti.to/mozill	
13	77.5937, 12.9719	Mozilla Community Space Bangalore, No 10, A C...	true	Bangalore	India	Galaxy Kadiyala	https://ti.to/mozill	
14	-78.4767, 38.0293	Center for Open Science, 210 Ridge McIntire	true	Charlottesville	USA	Andrew Sallans	https://ti.to/mozill	

deepinsights.js : <https://github.com/CartoDB/deep-insights.js>



Avg price

Price

7.4K SELECTED



Distance to metro

7.4K SELECTED



Review score

5.6K SELECTED

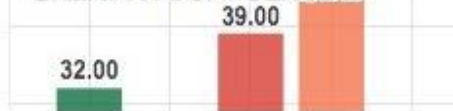


Metro line

ALL SELECTED



Chart: NVD3 + CartoDB



Popcorn Placemap



LandSat Cloudy Map



Payscale US Stress Map



Odyssey Editor Workshop



Historical Lakes Odyssey



Map of the Week Guide



Chart: C3.JS + CartoDB

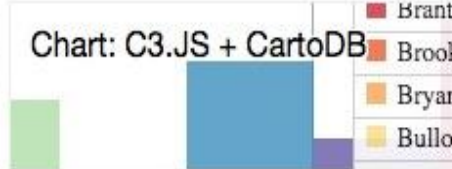


Chart: Chart.js + CartoDB



NICAR 15 - Onomatopoeia Map



NICAR 15 - Workshop



Tapestry Tip Sheet - CartoDB



```
<!DOCTYPE html>
<[cartodb] html template
<head>
  <title>HTML Template | CartoDB<
  <meta name="viewport" content="
```

Beirut Workshop - Notes



Beirut Workshop II: Map + Chart



Beirut Workshop: Blackout Map



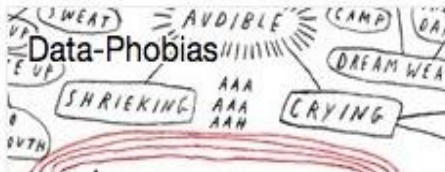
Yale Workshop: Humanitarian Data



Keybase Auth



Data-Phobias



UPDATE name_of_db SET the geom = S

```
SQL: set geom for NYC
//Order of Operations nested comma
//ST_MakePoint(x,y) turns any x, y
(If this was latitude and longitude
```




NOAA

NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

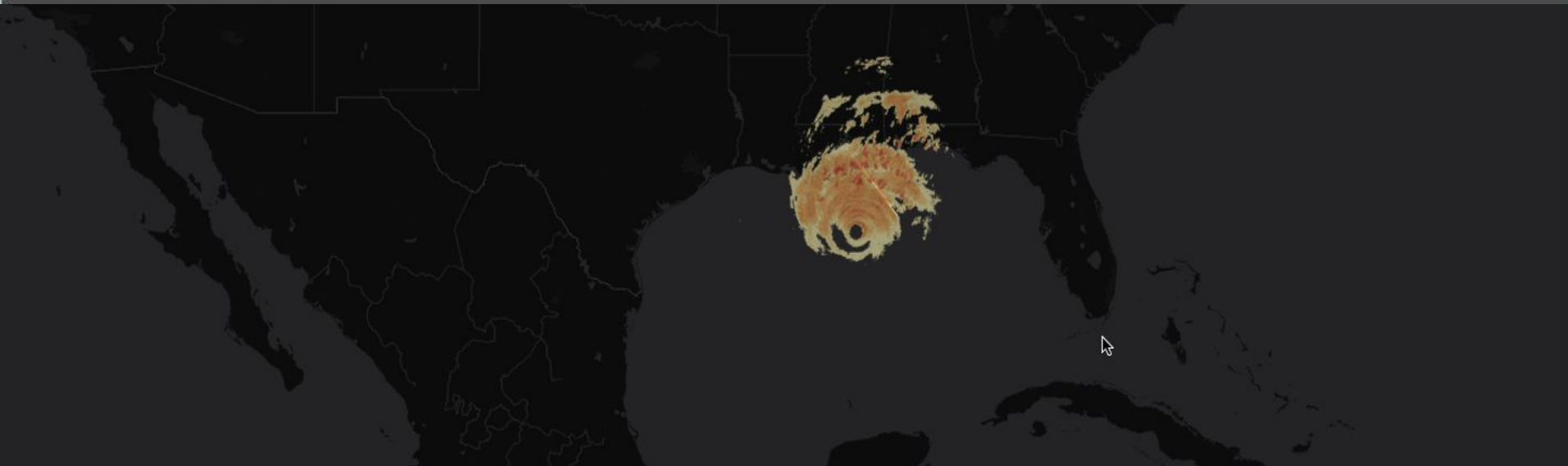


Formerly the National Climatic Data Center (NCDC)... [more about NCEI](#) »

[Home](#) [Climate Information](#) [Data Access](#) [Customer Support](#) [Contact](#) [About](#)



[Home](#) > [Data Access](#) > [Radar](#) > NEXRAD



NEXRAD torque visualization, cartodb, tinyurl.com/cdb-nexrad

St Pancras and Somers Town

Standard of living



Violent crime rate



House prices, by Nestoria

Bedrooms

1 2 3 4 5

Asking price
£775,294

Rent/month
£2,307

About the residents

Predominant age group: (37 %) **25 to 34**

Unemployment rate: **4.6%**

About the households:

Predominant dwelling type: (90 %) **Flats**

Predominant house tenure: (37 %) **Private rent**

Amenities: average travel time

Nearest GP (walking): **6.6 mins**

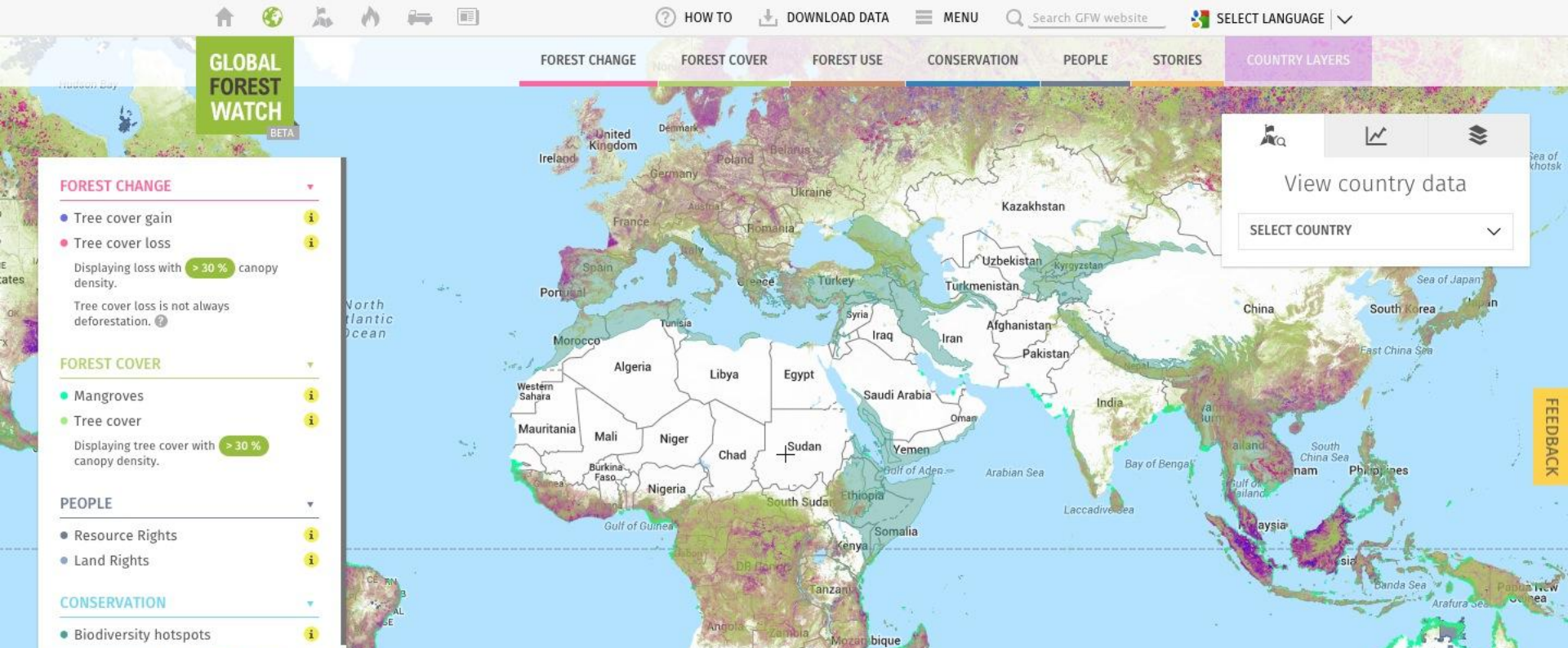
Nearest grocery (walking): **7 mins**

Nearest hospital (driving): **5 mins**

ZUI from abstract to street view



CartoDB + Cesium for globe view



Global forest watch, <http://www.globalforestwatch.org>





GLOBAL FOREST WATC...

35 MAPS

17 DATASETS

Global Forest Watch

Global Forest Watch (GFW) is an interactive online forest monitoring and alert system designed to empower people everywhere with the information they need to better manage and conserve forest landscapes. Global Forest Watch uses cutting edge technology and science to provide the timeliest and most precise information about the

GLOBAL
FOREST
WATCH

global_24h_csv

4 MB 16 hours ago

GLOBAL
FOREST
WATCH

global_mangroves

622 MB 2 days ago

GLOBAL
FOREST
WATCH

gfw_logging

363 MB 3 days ago

GLOBAL
FOREST
WATCH

gfw_land_rights

140 MB 3 days ago

GLOBAL
FOREST
WATCH

south_america_7d

6 MB 5 days ago





WHERE ON MARS

ABOUT

PROJECT

CONTACT

WHERE ON MARS

...should the first European rover land?

Visualise on an interactive map the candidate landing sites that scientists are studying for the ESA's ExoMars rover to search for life!

Tell me more ▼

OPEN MAP

where on mars?: <http://whereonmars.co>

Hide/Show

Elevation constraint

First, in order to have a successful landing, the elevation of the landing site must be lower than -2 km.

All landers use a parachute to slow themselves down as they come through the thin atmosphere of Mars. To make sure that the parachute has enough time to do its job, the landers need to touch down at as low an elevation as possible.

On this altimetry map, derived from the Mars Orbiter Laser Altimeter (MOLA), areas ruled out for a safe landing are shown dimmed.

Area ruled out because elevation higher than -2 km

where on mars?: <http://whereonmars.co>

-9 KM MOLA ALTITUDES +14 KM



Elevation constraint

1000 km

Common Crane

Phenology

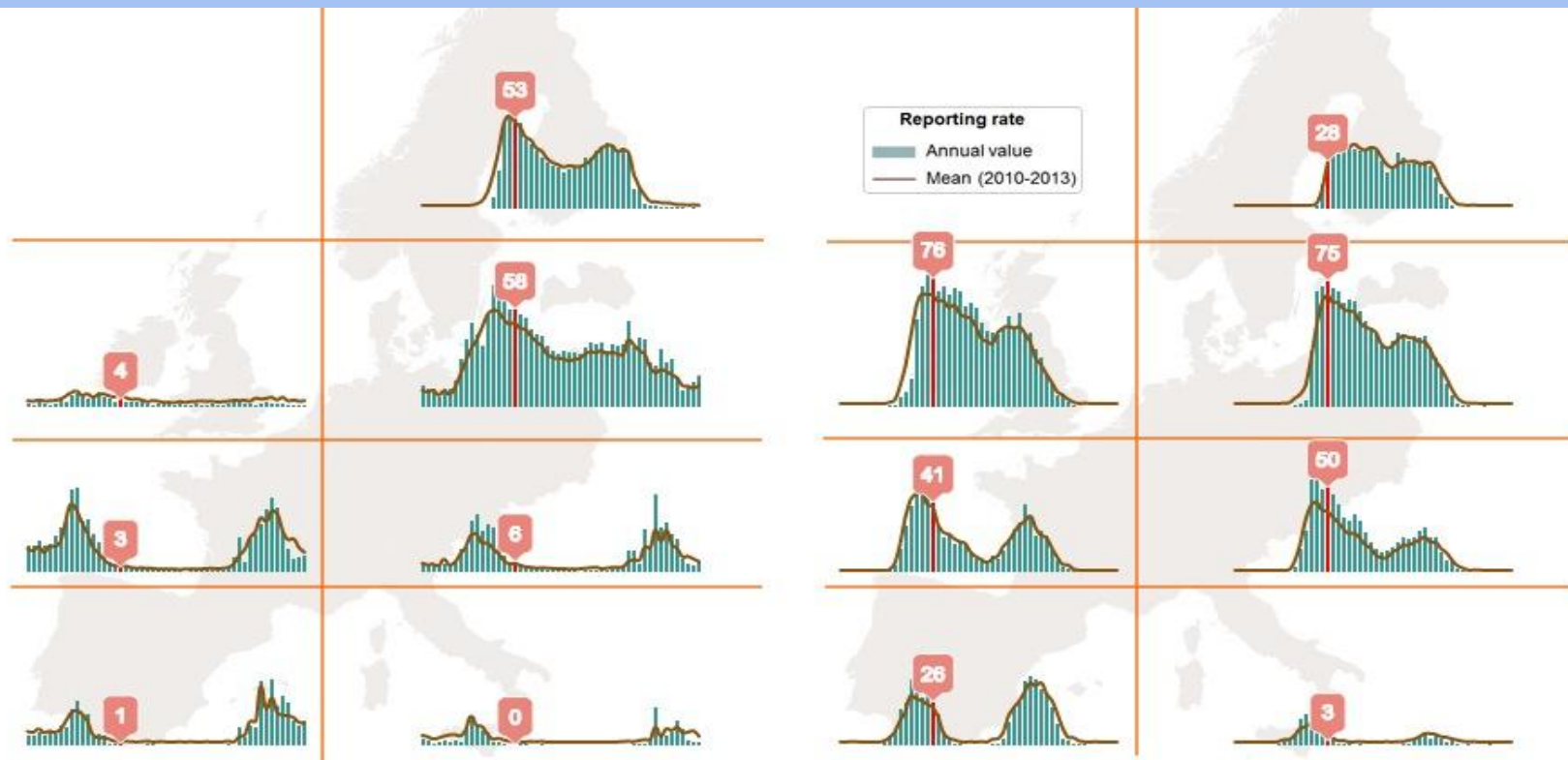
2013

Willow Warbler

Phenology

2013

bird watching + satellite comparative comparison



II

K H

Speed

2013

Week
30 Apr - 6 May

2013

Speed

Eurasian Teal

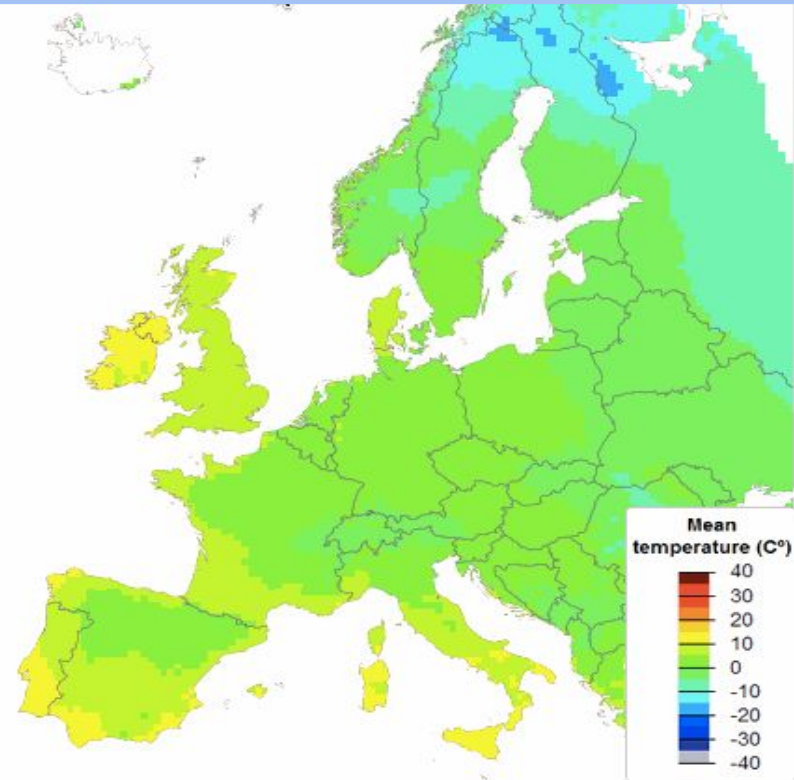
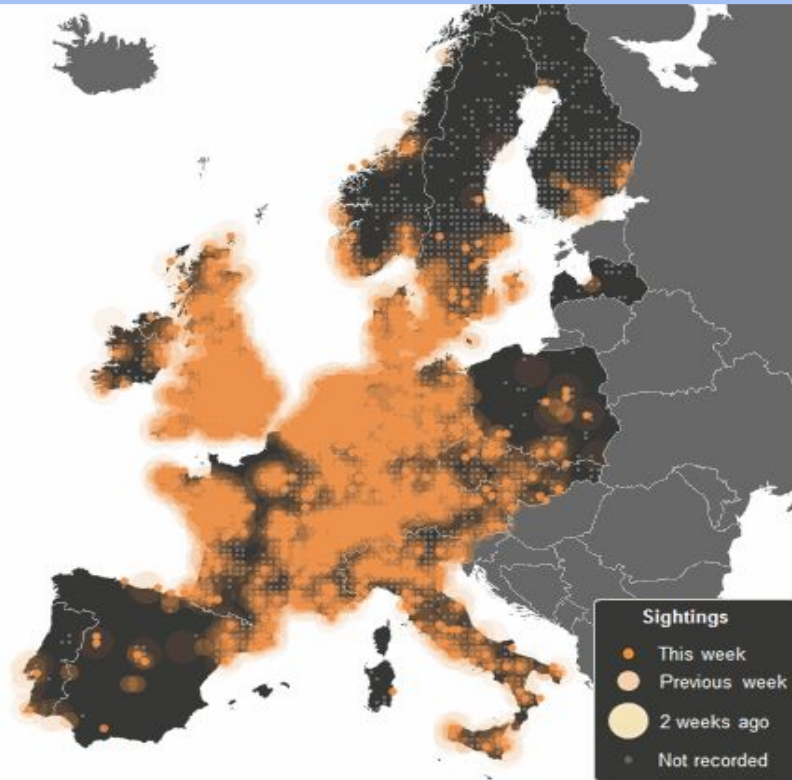
Traces

2013

Temperature (mean)

2013

bird migrations: <http://www.eurobirdportal.org/ebp/en/>



II

K H

Speed

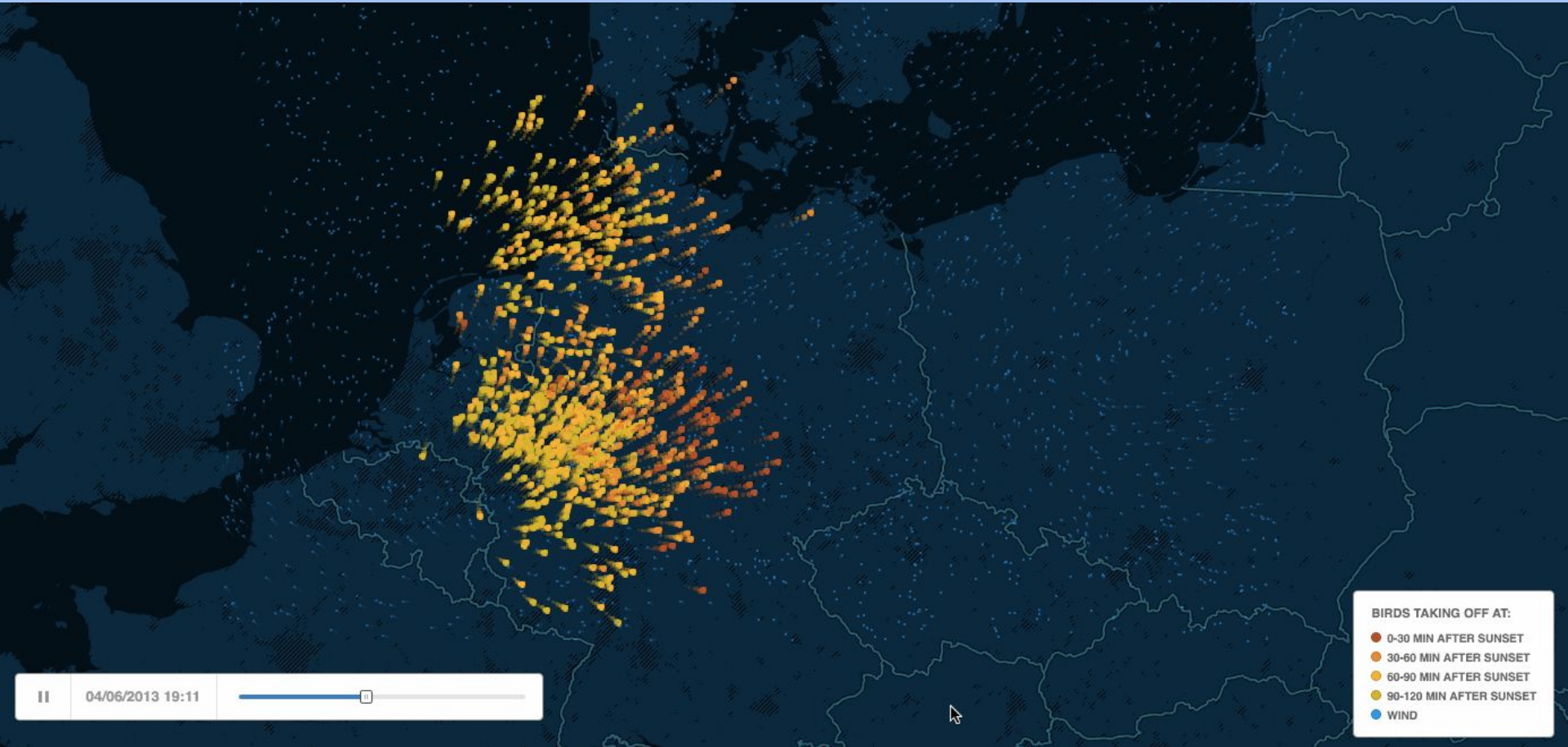
2013

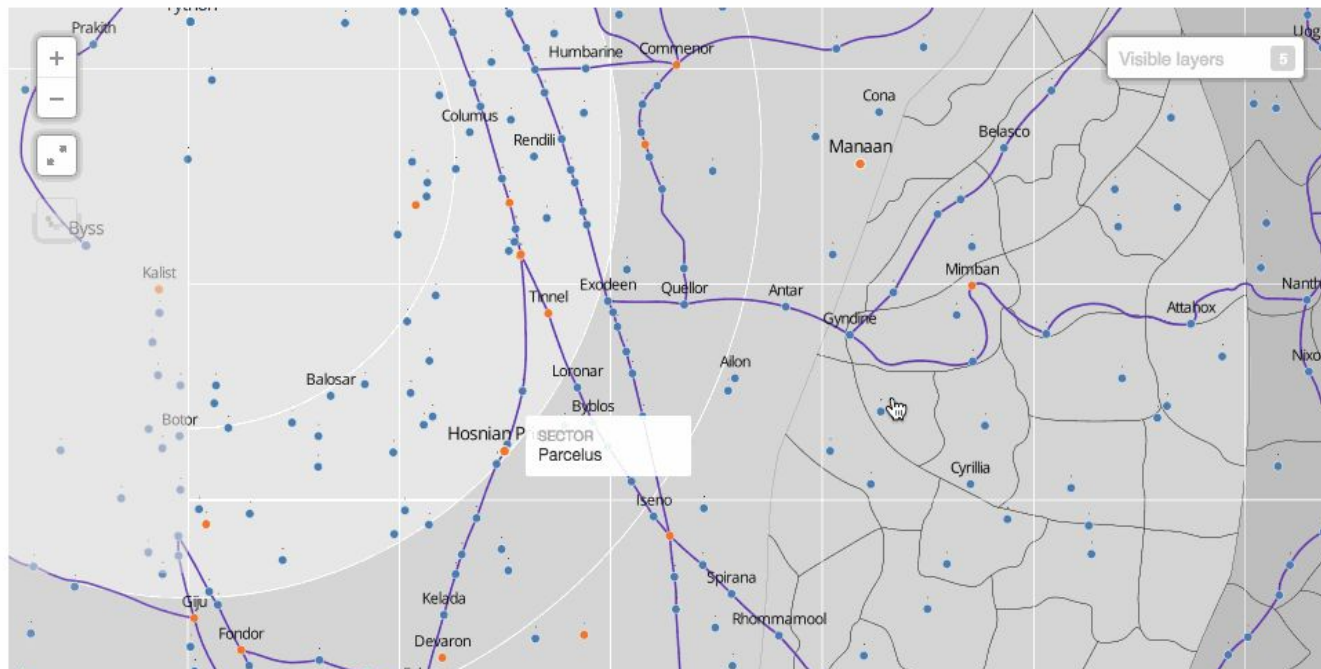
Week
10 - 16 Dec

2013

Speed

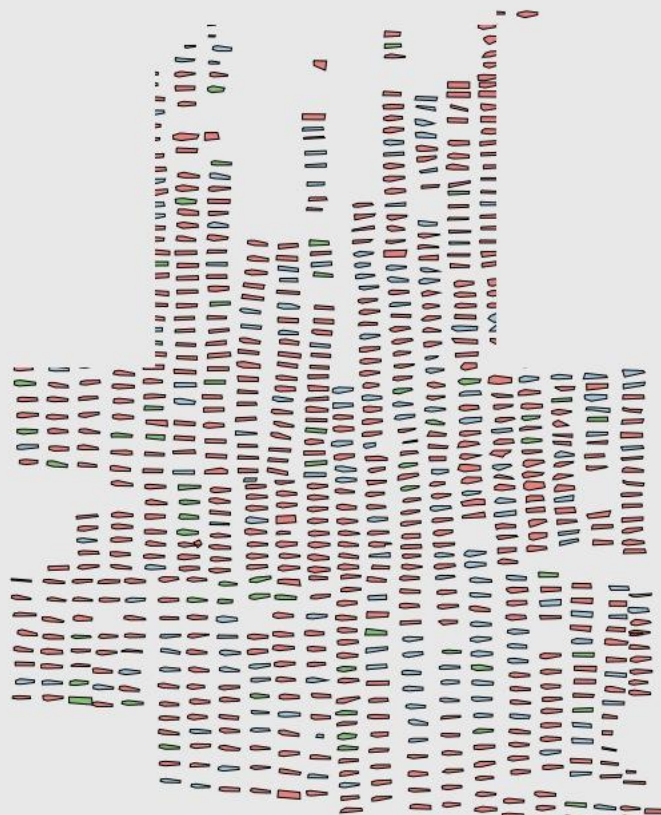
torque.js to visualize murmurations: <http://www.tinyurl.com/cdb-murmur>





star wars galaxy map: <http://www.swgalaxymap.com/>

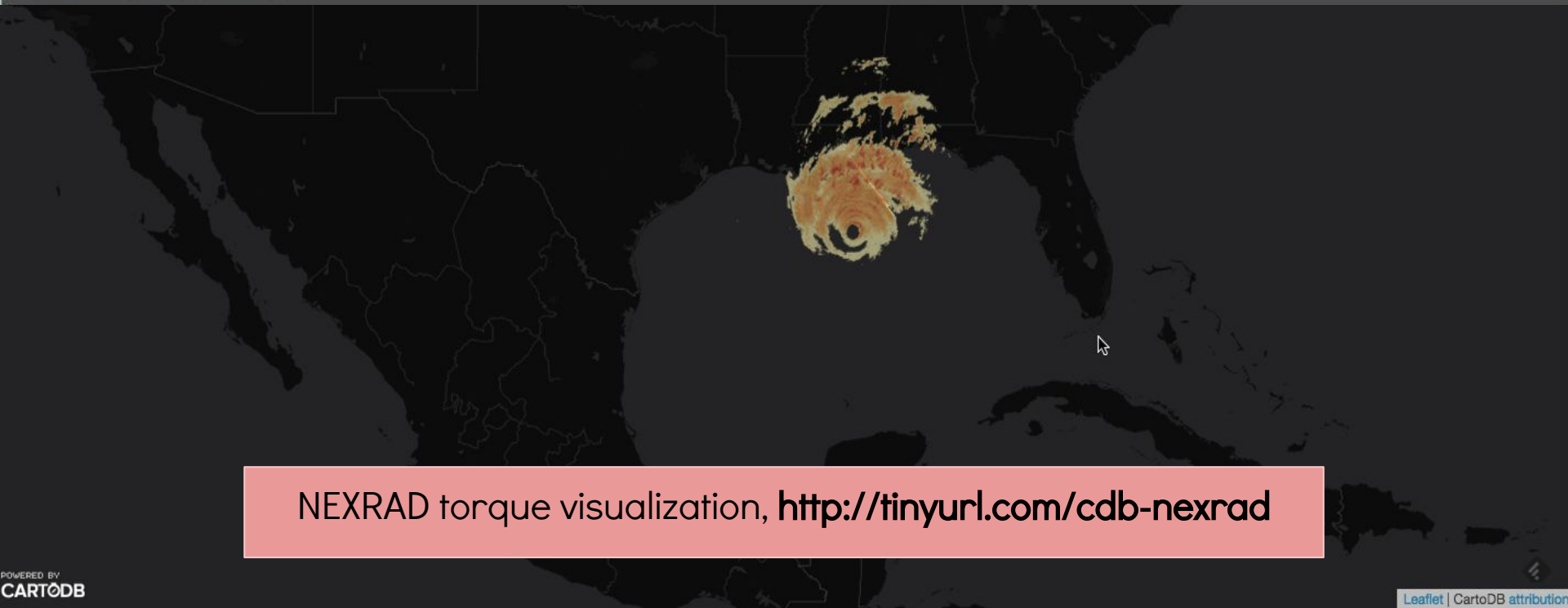
morbid maps



cemetery mapping, tinyurl.com/carto-coffins

SEX ESTIMATION

- MALE
- INDETERMINATE
- FEMALE

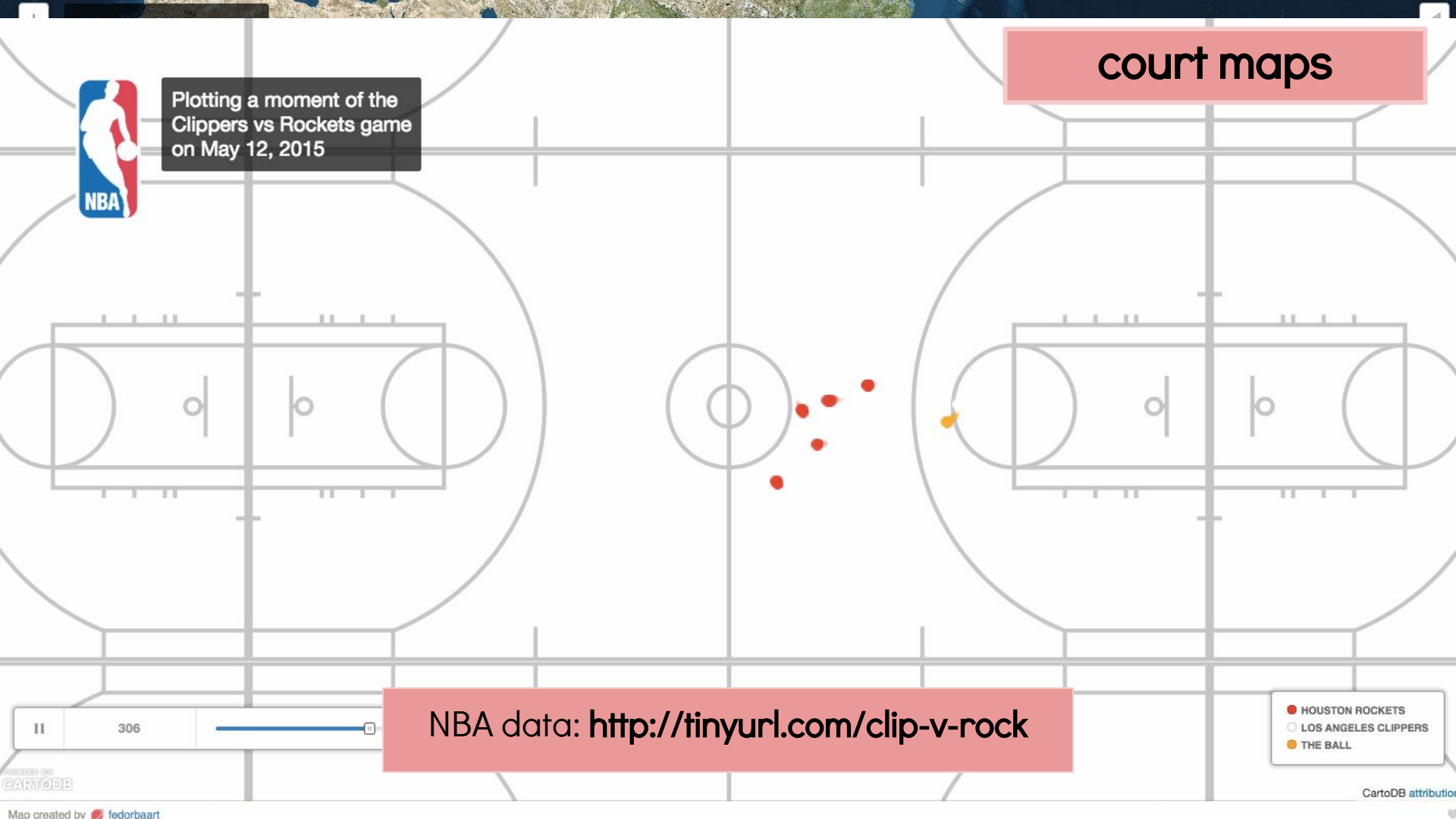


NEXRAD torque visualization, <http://tinyurl.com/cdb-nexrad>



Plotting a moment of the
Clippers vs Rockets game
on May 12, 2015

court maps



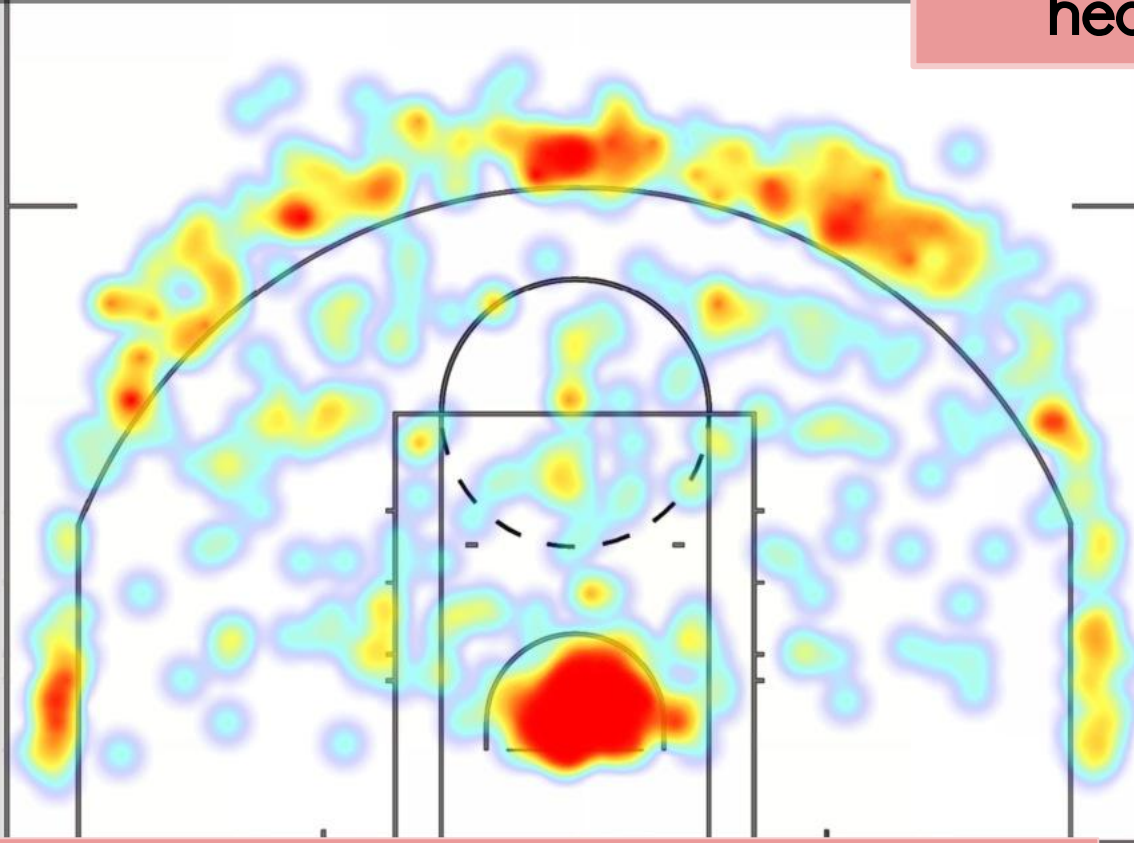
NBA data: <http://tinyurl.com/clip-v-rock>

● HOUSTON ROCKETS
○ LOS ANGELES CLIPPERS
● THE BALL

heat maps



Player Selector
Stephen Curry
Anthony Davis
James Harden
LaMarcus Aldridge
LeBron James



visualización por
kudos

NBA data: <http://kronista.co/projects/2015/nba/>



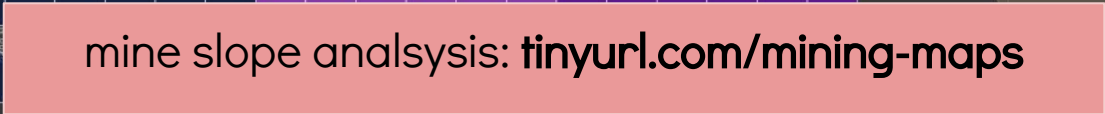
NYC Subway Deserts

This map shows all land areas in NYC that are more than 500 meters away from a subway station - Made with CartoDB

negative maps



subway deserts: tinyurl.com/subnoways





Sad Topographies

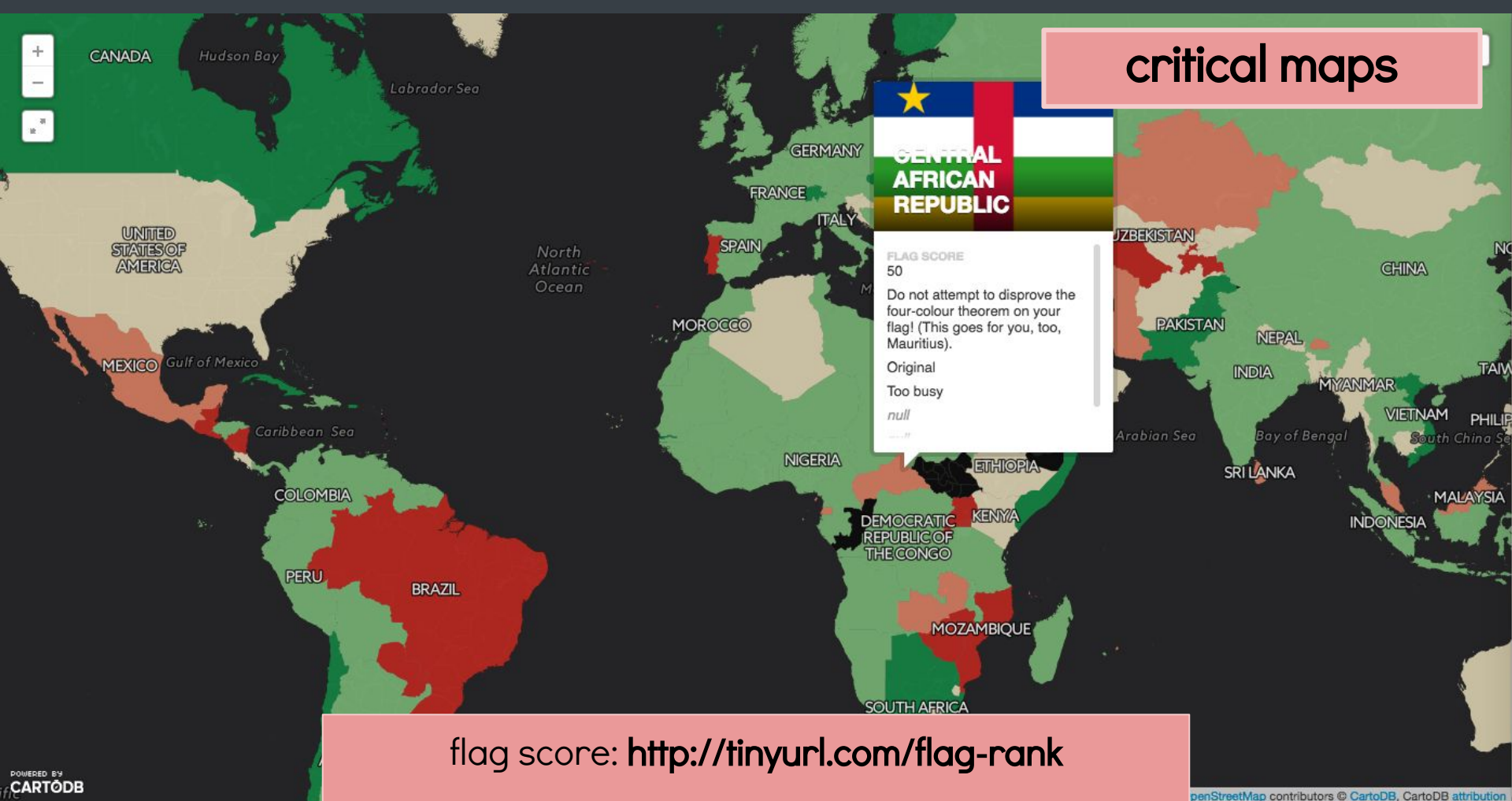
Follow @sadtopographies
on Instagram for more!

emo maps

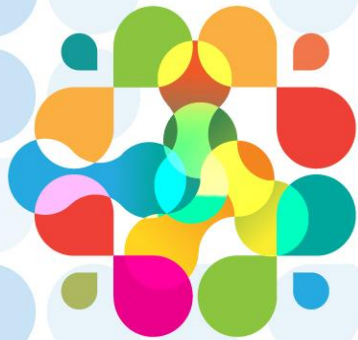
Road to Nowhere

sad topographies: <http://tinyurl.com/sad-topo>

critical maps

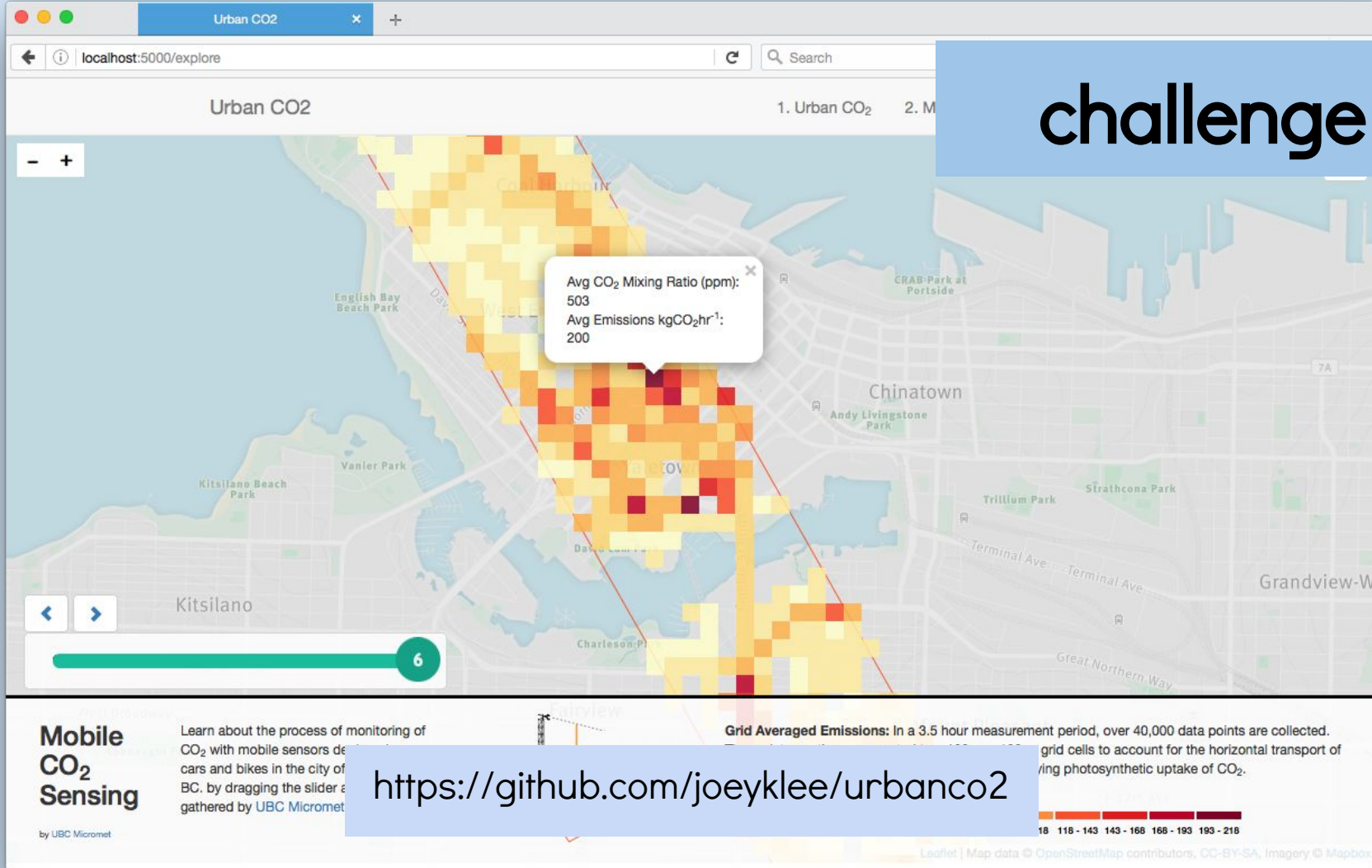


flag score: <http://tinyurl.com/flag-rank>



mozilla

Science Lab



challenge

<https://github.com/joeyklee/urbanco2>

[Pull requests](#) [Issues](#) [Gist](#)

Mozilla Science Lab

<http://mozillascience.org>sciencelab@mozillafoundation.org[Repositories](#)[People](#) 43[Teams](#) 12[Settings](#)

Filters ▾

[+ New repository](#)

site

JavaScript ★ 1 📄 5

Making research collaborative, accessible, and usable

Updated 13 hours ago

working-open-workshop

★ 1 📄 0

A repo to collect all materials and resources related to Mozilla Science Lab's Working Open Workshop

Updated 4 days ago

studyGroup

JavaScript ★ 30 📄 140

Updated 5 days ago

learning

★ 2 📄 0

Repository for planning and working on Science Lab learning materials

Updated 5 days ago

fellows-class-2015

★ 0 📄 5

People

43 >

[Invite someone](#)

code

<> Code 1 Issues 8 Pull requests 2 Wiki

No description or website provided. — Edit

275 commits 5 branches

Branch: gh-pages New pull request New fork

Bill Mills	Update codeOfConduct.md
_data	Update pt.yml
_includes	refactor for localization support
_layouts	Add a "Who We Are" page.
_plugins	first post
_posts	fix merge
css/font-awesome	first post
img	experimenting with template
js	first post
lessons/template	added lessons directory
mail	first post
scripts	fixed dummy email
.gitignore	remembered gitignore
LICENSE	License split for theme vs content
README-pt.md	Create README-pt.md
README	
_conf	
codeOfConduct-pt.md	Create codeOfConduct-pt.md

study groups



Richard Smith-Unna (@blahah404) is a computational biologist at the University of Cambridge. He is currently focused on understanding C4. He develops and contributes to a wide array of bioinformatics, including the Content Mine, Solvers

Learn about these projects and more on his blog.



Christie Bahlai (@cbahlai) is an insect ecologist at the University of Guelph. She works with the NSF-funded Long Term Ecological Research (LTER) program to understand how we can use big(ish) ecological data and open agricultural systems. She's an instructor with Software Carpentry about open science and data management called f

Learn about these projects and more on her blog.



Joey Lee (@leejoeyk) is a geographer and computational biologist. He is passionate about technological literacy and the environment. He is co-author of "The Big Atlas of I project (video here). He is currently based in Vancouver and teaching at the University of British Columbia (e.g. Maptime Vancouver), and exploring projects a

Learn about these projects and more on his blog.



Jason Bobe (@jasonbobe) is Associate Professor of Genomics and Multiscale Biology at Mount Sinai and Stephen Friend, a research study that aims to understand despite having genetic risk factors. He has founded DIYbio. With co-founder Madeleine Ball, he has created a community of scientists that practice personal Genomics

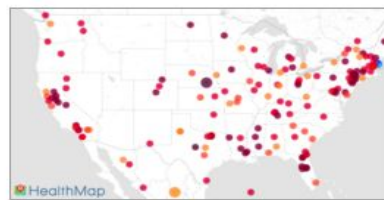
Learn about these projects and more on his blog.

fellowships

PROJECTS

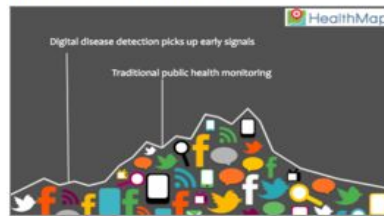
projects

Visualization of Geo-Temporal Data
Public Health, Epidemiology



A project to visualize s

Biosurveillance using Social Media:
Development of Curation Tools
Public Health, Epidemiology



Jared Hawkins

A project for curating s

Contributorship Badges
Publishing, Credit



Abigail Cabunoc Mayes

the use of dig

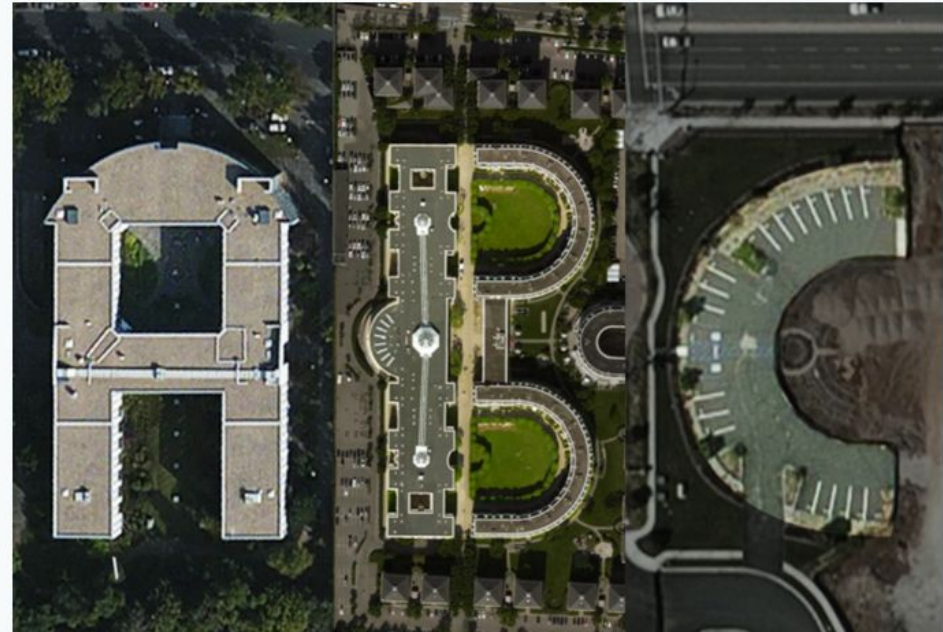
collaborate

LIZ STINSON DESIGN 03.09.16 2:40 PM

AERIAL BOLD: A CLEVER TYPEFACE CRAFTED FROM SATELLITE SHOTS OF BUILDINGS

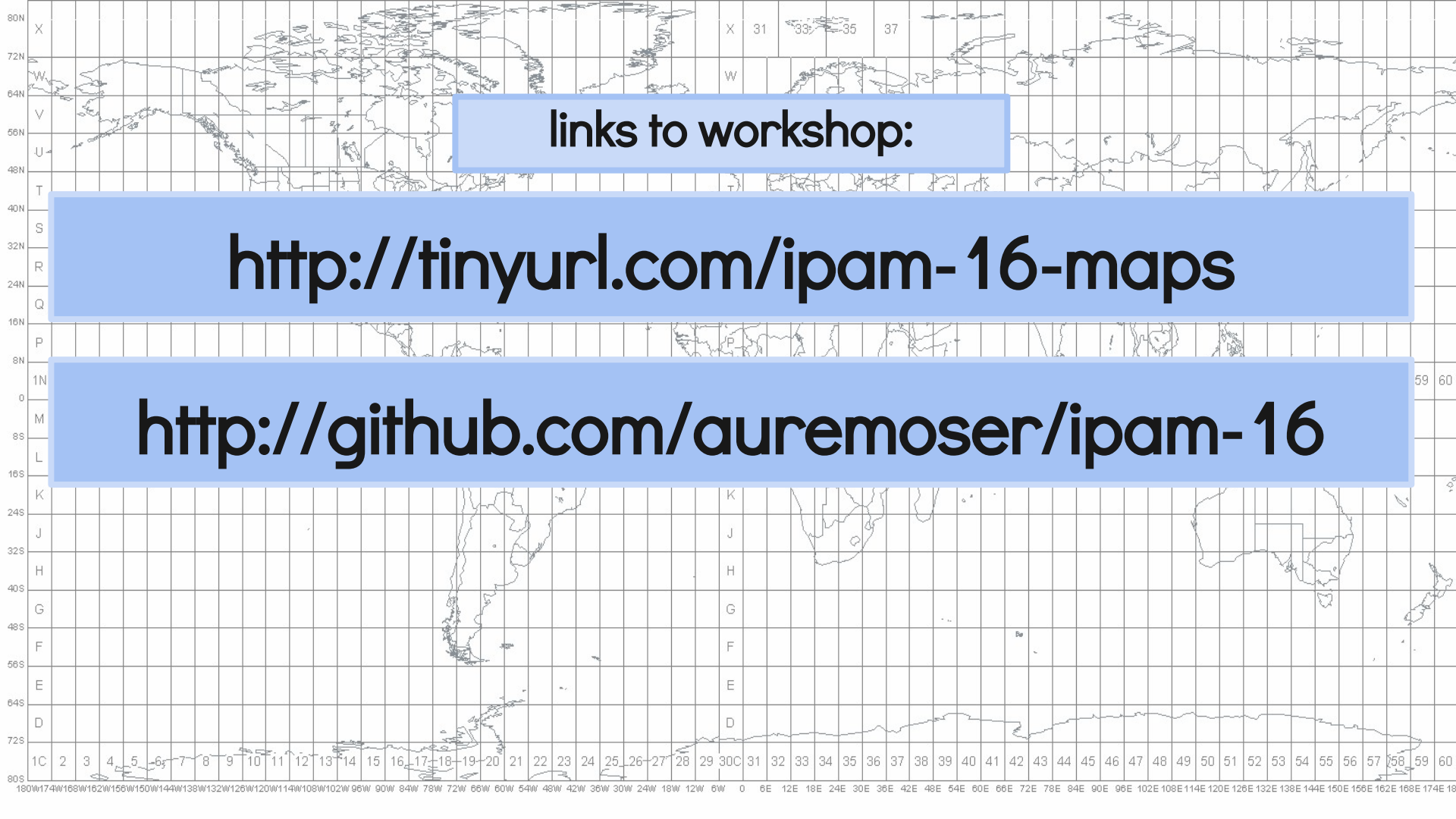


Aerial Bold: Kickstart the Planetary Search



<http://wired.com/2016/03/aerial-bold-clever-typeface-crafted-satellite-shots-buildings>





links to workshop:

<http://tinyurl.com/ipam-16-maps>

<http://github.com/auremoser/ipam-16>