So you want to be a Lonely Coder?

• • •

Join the club: http://lcc-slack.herokuapp.com/
Download these slides: http://tiny.cc/LCC

Scott Pham | Brent Jones | Alexandra Kanik | Lindsey Cook

Starting Out Lonely

The Lonely Coders Club

- 100ish digital journalists around the country
- Varying skill levels
- Primarily a Slack group
- Open signs-ups: http://lcc-slack. herokuapp.com/

What it means to be a Lonely Coder

Some possibilities:

- No peers
- Other responsibilities
- Trouble convincing/evangelizing
- You need resources: time, servers, admin access, paid online services, learning materials

A Disclaimer

"Lonely Coder" is a useful term, not a real-life under-class

- Most of us NICAR are probably lonely coders
- NICAR is actually very inviting to beginners
- We tend to over-estimate the skills of our peers

What we're going to do today

- Show you resources tools and techniques that get you started fast
- Show you how to leverage early wins to get buy-in and goodwill from your colleagues
- Encourage you to reach out to your Lonely colleagues on the internets

CensusReporter.org

● ● ●

One stop to make stories about places better

Profile

Start typing to pick a place...

or 📍 **Search by street address**

📄 **Find facts**

Populations and dollar figures are broken down by category: Demographics, Economics, Families, Housing and Social.

📊 **Visualize**

Our library of charts gives you insight into data from the places you research. Look for them on profile pages. You can even embed the charts on your own site.

🔄 **Get context**

Pre-computed statistics are presented alongside each data point, so you can see how each place fits into a larger context.

Explore

Find a topic by table or column name...

🔍 **Explore**

Census data is massive, and sometimes it's hard to find the table you're looking for. Search by table and column keywords.

📊 **Visualize**

We want to help *you* tell great stories. Maps and distribution charts help uncover what's interesting, so you can take it from there.

⬇️ **Download**

From any comparison, save the data you're viewing in CSV, Excel or a variety of geographic data formats.

Topics

Learn more about the concepts and tables covered by the Census and American Community Survey. We'll be adding more of these pages in the next few months, so let us know if there are topics you'd like to see us explain.

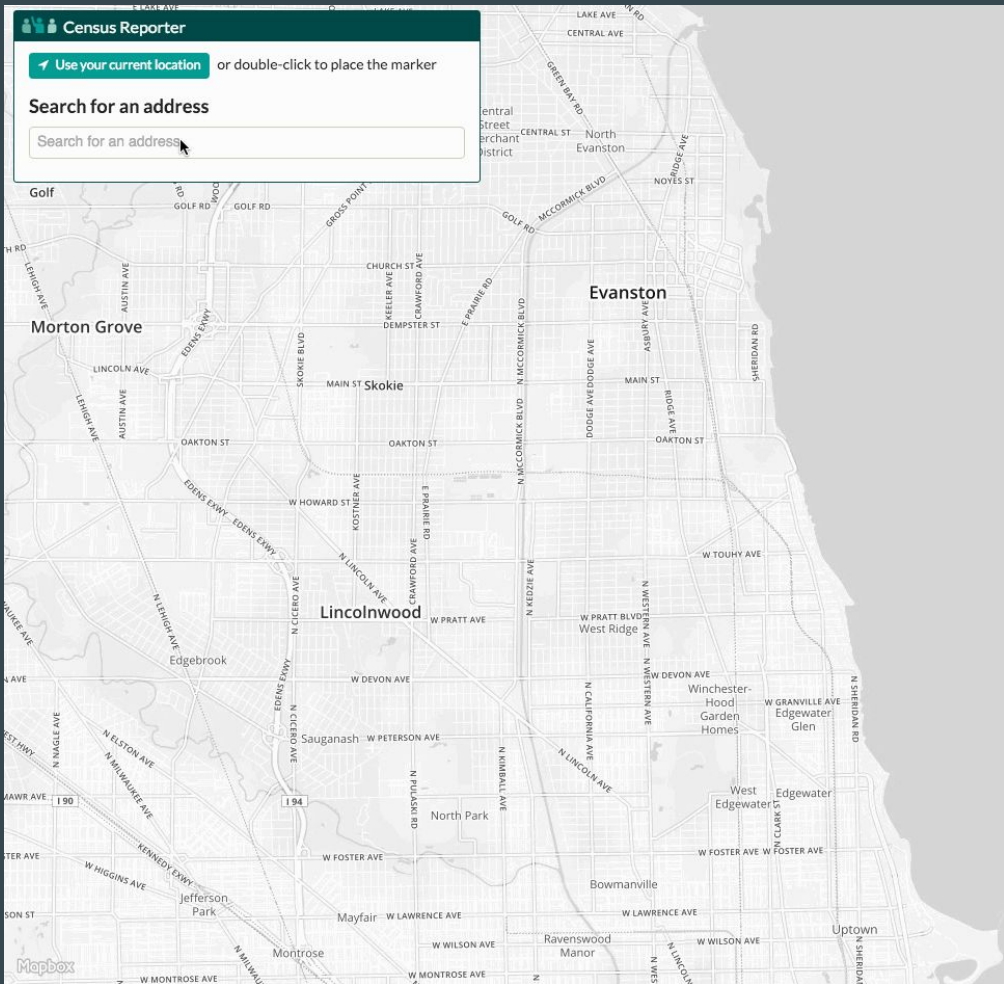|		
Getting Started	**Age and Sex**	**Children**
Commute	**Employment**	**Families**
Geography	**Health Insurance**	**Income**
Migration	**Poverty**	**Public Assistance**
Race and Hispanic Origin	**Same-Sex Couples**	**Seniors**
Table Codes	**Veterans and Military**	

Census Reporter

Use your current location or double-click to place the marker

Search for an address

Search for an address

Golf

Morton Grove

Evanston

Skokie

Lincolnwood

© Mapbox © OpenStreetMap **Improve this map**
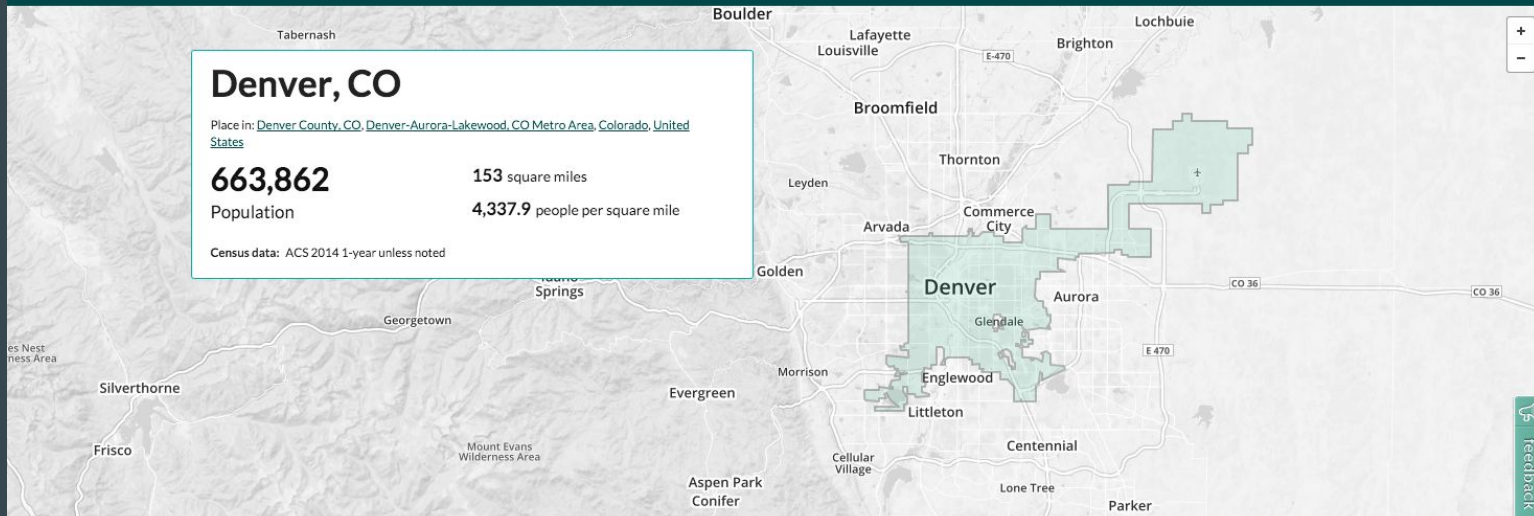
Start typing to profile a place...   or   **Search for data**

Boulder
Lafayette   Lochbuie
Louisville   Brighton
E-470
Tabernash   Broomfield
Thornton
Leyden   Commerce City
Arvada
Golden   Denver   Aurora   CO 36   CO 36
Georgetown   Glendale
Morrison   E 470
es Nest   Englewood
ness Area   Silverthorne   Littleton
Evergreen   Centennial
Frisco   Cellular Village
Mount Evans   Lone Tree
Wilderness Area   Aspen Park   Parker
Conifer

Denver, CO

Place in: Denver County, CO, Denver-Aurora-Lakewood, CO Metro Area, Colorado, United States

663,862
Population

153 square miles

4,337.9 people per square mile

Census data: ACS 2014 1-year unless noted

feedback

+
−

Find data for this place   Search by table or column name...

Interact with charts and statistics for margins of error and additional information.

Demographics

Age

34.2
Median age

a little less than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

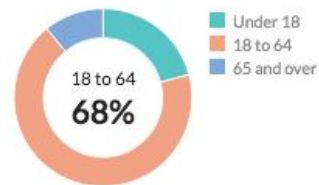**a little less** than the figure in Colorado: 36.3

Population by age range

13% 10% 18% 19% 13% 11% 9% 4% 3%

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+

Show data / Embed

Population by age category

18 to 64
68%

- Under 18
- 18 to 64
- 65 and over
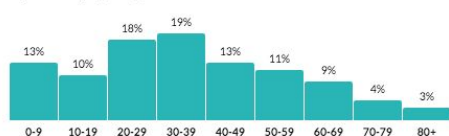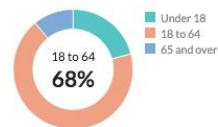
Show data / Embed

† Margin of error is at

Sex

Race & Ethnicity

Demographics

Age

34.2

Median age

a little less than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

a little less than the figure in Colorado: 36.3

Population by age range

Age range	Percent
0-9	13%
10-19	10%
20-29	18%
30-39	19%
40-49	
50-59	
60-69	
70-79	4%
80+	3%
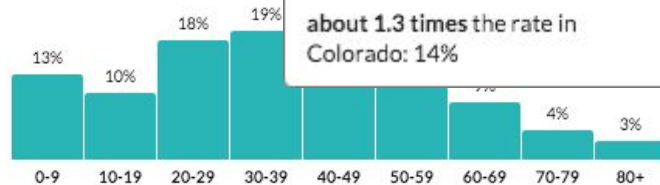
30-39: 19%

about 25 percent higher than the rate in the Denver-Aurora-Lakewood, CO Metro Area: 16%

about 1.3 times the rate in Colorado: 14%

Show data / Embed

Population by age category

18 to 64
68%

- Under 18
- 18 to 64
- 65 and over

Show data / Embed

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex

Male
50%

- Male
- Female

Show data / Embed

Race & Ethnicity

Category	Percent
White	53%
Black	9%
Native	1%†
Asian	4%
Islander	0%†
Other	0%†
Two+	2%†
Hispanic	31%

* Hispanic includes respondents of any race. Other categories are non-Hispanic.

Show data / Embed

Find data for this place

Search by table or column name...

Interact with charts and statistics for margins of error and additional information.
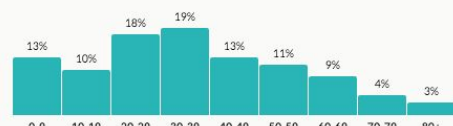
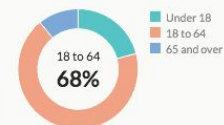## Demographics

Age

34.2

Median age

a little less than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

a little less than the figure in Colorado: 36.3
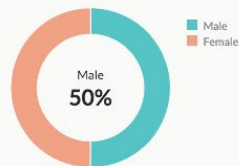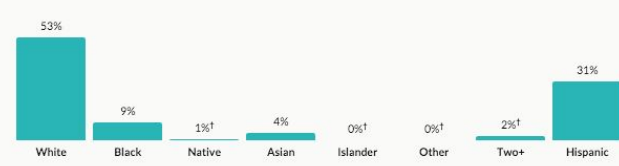
Population by age range

13% — 0-9
10% — 10-19
18% — 20-29
19% — 30-39
13% — 40-49
11% — 50-59
9% — 60-69
4% — 70-79
3% — 80+

Show data / Embed

Population by age category

18 to 64
68%

- Under 18
- 18 to 64
- 65 and over

Show data / Embed

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex

Male
50%

- Male
- Female

Show data / Embed

Race & Ethnicity

53% — White
9% — Black
1%† — Native
4% — Asian
0%† — Islander
0%† — Other
2%† — Two+
31% — Hispanic

* Hispanic includes respondents of any race. Other categories are non-Hispanic.

Show data / Embed

Economics

Income
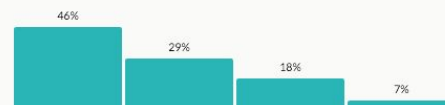
$35,967

Per capita income

about the same as the amount in the Denver-Aurora-Lakewood, CO Metro Area: $35,256

$54,941

Median household income

about 80 percent of the amount in the Denver-Aurora-Lakewood, CO Metro Area: $66,870
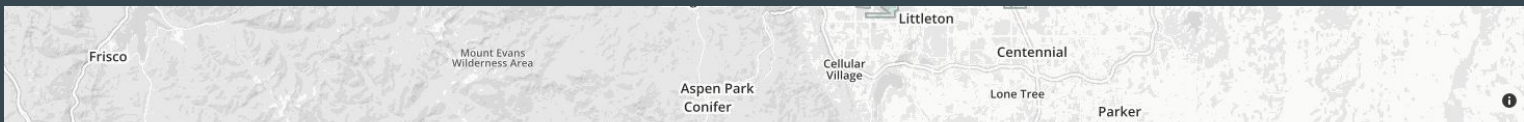
Household income

46%
29%
18%
7%

feedback

That's great…
but how do I use this?
...

Provide context for your audience

Embed this data as a chart

Find data for this place

Search by table or column name...

Interact with charts and statistics for margins of error and additional information.

Demographics

Age

34.2

Median age

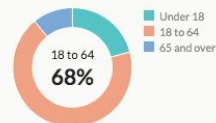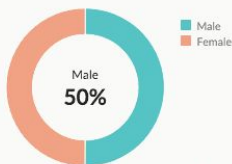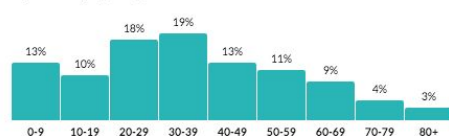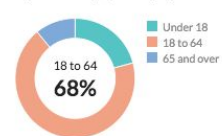**a little less** than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

a little less than the figure in Colorado: 36.3

Population by age range

13% — 0-9
10% — 10-19
18% — 20-29
19% — 30-39
13% — 40-49
11% — 50-59
9% — 60-69
4% — 70-79
3% — 80+
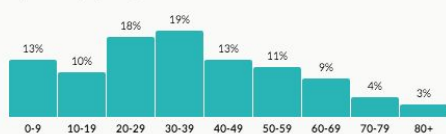
Show the data / Embed

Population by age category

18 to 64
68%

- Under 18
- 18 to 64
- 65 and over

Show the data / Embed

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex

Male
50%

- Male
- Female

Show data / Embed

Race & Ethnicity

53% — White
9% — Black
1%† — Native
4% — Asian
0%† — Islander
0%† — Other
2%† — Two+
31% — Hispanic

* Hispanic includes respondents of any race. Other categories are non-Hispanic.

Show data / Embed

Economics

Income

$35,967

Per capita income

$54,941

Median household income

about the same as the amount in the

about 80 percent of the amount in

Household income

46%

29%

feedback

Start typing to profile a place...   or   Search for data

Boulder
Tabernash
Lafayette Lochbuie
Louisville Brighton
E-470

Denver, CO

Place in: Denver County, CO, Denver-Aurora-Lakewood, CO Metro Area, Colorado, United States

Broomfield

Thornton

Leyden

663,862
Population

153 square miles

4,337.9 people per square mile

Commerce City

Arvada

Census data: ACS 2014 1-year unless noted

Golden

Denver

Aurora

CO 36

CO 36

Georgetown

Glendale

E 470

Nest ness Area

Silverthorne

Morrison

Englewood

Centennial

Evergreen

Littleton

Frisco

Mount Evans Wilderness Area

Cellular Village

Lone Tree

Aspen Park Conifer

Parker

feedback

Find data for this place   Search by table or column name...

Interact with charts and statistics for margins of error and additional information.

Demographics   **Age**

34.2
Median age

Population by age range

Population by age category

a little less than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

a little less than the figure in Colorado: 36.3

13%   18%   19%
10%   13%
11%
9%
4%   3%

0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+

Under 18
18 to 64
65 and over

18 to 64
68%

Show data / Embed   Show data / Embed

† Margin of error is at   **Sex**   **Race & Ethnicity**

Find data for this place

`Search by table or column name...`

Interact with charts and statistics for margins of error and additional information.
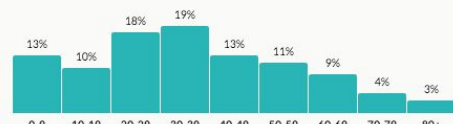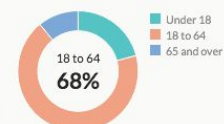
Demographics

Age

34.2

Median age

a little less than the figure in the Denver-Aurora-Lakewood, CO Metro Area: 36.1

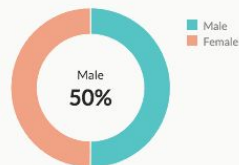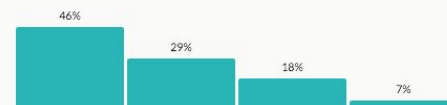a little less than the figure in Colorado: 36.3

Population by age range

0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+
13%	10%	18%	19%	13%	11%	9%	4%	3%

Show data / Embed

Population by age category

- Under 18
- 18 to 64
- 65 and over

18 to 64
68%

Show data / Embed

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex

- Male
- Female

Male
50%

Show data / Embed

Race & Ethnicity

White	Black	Native	Asian	Islander	Other	Two+	Hispanic
53%	9%	1%†	4%	0%†	0%†	2%†	31%

* Hispanic includes respondents of any race. Other categories are non-Hispanic.

Show data / Embed

Economics

Income

$35,967

Per capita income

about the same as the amount in the Denver-Aurora-Lakewood, CO Metro Area: $35,256

$54,941

Median household income

about 80 percent of the amount in the Denver-Aurora-Lakewood, CO Metro Area: $66,870

Household income

46%	29%	18%	7%

Sex by Age

Table B01001 — Change

Add data for more places below; visualize or download this data with controls at right.

Selected geographies

Denver, CO Remove
Denver-Aurora-Lakewood, CO Metro Area Remove
Denver County, CO Remove
Colorado Remove
United States Remove

Add a geography

Find a place

Add all places in ...

Denver County, CO
Denver-Aurora-Lakewood, CO Metro Area
Colorado
United States

Divide Denver, CO into ...

census tracts
block groups
ZIP codes

ACS 2014 1-year

Table universe: Total Population

Switch to totals   Click a row to highlight

Column →	Colorado		Denver County, CO		Denver, CO		Denver-Aurora-Lakewood, CO Metro Area		United States	
Male:	50.3%	±0.1%	50%	±0.1%	50%	±0.1%	49.9%	±0.1%	49.2%	±0
Under 5 years	3.2%	±0%	3.5%	±0.1%	3.5%	±0.1%	3.3%	±0%	3.2%	±0
5 to 9 years	3.4%	±0.1%	3%	±0.2%	3%	±0.2%	3.6%	±0.1%	3.3%	±0
10 to 14 years	3.4%	±0.1%	2.8%	±0.2%	2.8%	±0.2%	3.4%	±0.1%	3.3%	±0
15 to 17 years	1.9%	±0%	1.3%	±0.1%	1.3%	±0.1%	1.9%	±0%	2%	±0
18 and 19 years	1.4%	±0%	1%	±0.1%	1%	±0.1%	1.1%	±0%	1.4%	±0
20 years	0.7%	±0.1%	0.6%	±0.2%	0.6%	±0.2%	0.5%	±0.1%	0.8%	±0
21 years	0.7%	±0.1%	0.6%	±0.1%	0.6%	±0.1%	0.6%	±0.1%	0.7%	±0
22 to 24 years	2.3%	±0.1%	2.1%	±0.2%	2.1%	±0.2%	2.1%	±0.1%	2.1%	±0
25 to 29 years	3.9%	±0%	5.7%	±0%	5.7%	±0%	4%	±0%	3.5%	±0
30 to 34 years	3.8%	±0%	5.5%	±0%	5.5%	±0%	4.1%	±0%	3.4%	±0
35 to 39 years	3.5%	±0.1%	4.4%	±0.3%	4.4%	±0.3%	3.8%	±0.1%	3.1%	±0
40 to 44 years	3.4%	±0.1%	3.7%	±0.3%	3.7%	±0.3%	3.6%	±0.1%	3.2%	±0
45 to 49 years	3.2%	±0%	3.2%	±0%	3.2%	±0%	3.4%	±0%	3.2%	±0
50 to 54 years	3.4%	±0%	2.9%	±0.1%	2.9%	±0.1%	3.5%	±0%	3.5%	±0
55 to 59 years	3.2%	±0.1%	2.8%	±0.2%	2.8%	±0.2%	3.2%	±0.1%	3.2%	±0
60 and 61 years	1.2%	±0.1%	1%	±0.2%	1%	±0.2%	1.1%	±0.1%	1.2%	±0
62 to 64 years	1.7%	±0.1%	1.3%	±0.2%	1.3%	±0.2%	1.5%	±0.1%	1.6%	±0
65 and 66 years	1%	±0.1%	0.8%	±0.1%	0.8%	±0.1%	1%	±0.1%	1%	±0
67 to 69 years	1.2%	±0.1%	1%	±0.2%	1%	±0.2%	1.1%	±0.1%	1.3%	±0
70 to 74 years	1.4%	±0.1%	1.1%	±0.1%	1.1%	±0.1%	1.3%	±0.1%	1.6%	±0
75 to 79 years	1%	±0%	0.8%	±0.1%	0.8%	±0.1%	0.8%	±0.1%	1.1%	±0
80 to 84 years	0.6%	±0%	0.5%	±0.1%	0.5%	±0.1%	0.5%	±0.1%	0.8%	±0
85 years and over	0.5%	±0%	0.5%	±0.1%	0.5%	±0.1%	0.5%	±0%	0.6%	±0
Female:	49.7%	±0.1%	50%	±0.1%	50%	±0.1%	50.1%	±0.1%	50.8%	±0
Under 5 years	3%	±0%	3.3%	±0%	3.3%	±0%	3.1%	±0%	3%	±0
5 to 9 years	3.2%	±0.1%	3%	±0.3%	3%	±0.3%	3.4%	±0.1%	3.2%	±0
10 to 14 years	3.3%	±0.1%	2.6%	±0.3%	2.6%	±0.3%	3.3%	±0.1%	3.2%	±0
15 to 17 years	1.8%	±0%	1.3%	±0%	1.3%	±0%	1.8%	±0%	1.9%	±0
18 and 19 years	1.2%	±0%	1%	±0%	1%	±0%	1%	±0%	1.4%	±0
20 years	0.6%	±0.1%	0.6%	±0.1%	0.6%	±0.1%	0.5%	±0.1%	0.7%	±0

CSV

Excel

GeoJSON

KML

Shapefile

But that's not all…

- Easily navigate geographies
- Create choropleth maps and switch between data or geography easily
- Look at distributions
- Find tips on the blog (censusreporter.tumblr.com) like how to make embeddable maps from Census Reporter Data
- Follow Census Reporter on Twitter @CensusReporter
- There's an API!
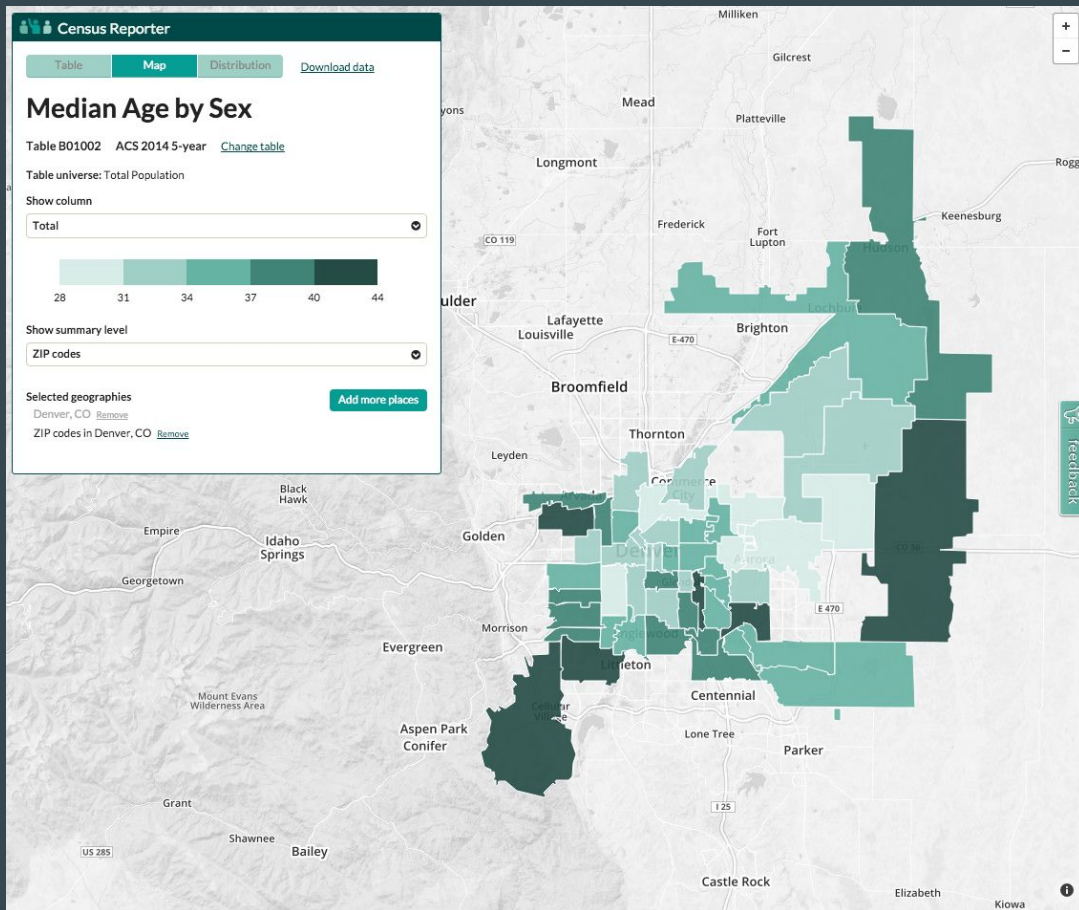
Interactive Tables

...

Tables can be rad

		Ted Cruz	Donald J. Trump	Marco Rubio	Ben Carson	John Kasich
Sex	Male 51% of voters	42%	36%	14%	4%	3%
	Female 49% of voters	38	29	21	4	4
Age	18-29 10% of voters	29	21	29	7	2
	30-44 21% of voters	41	35	17	5	2
	45-64 42% of voters	42	31	19	3	3
	65 and over 27% of voters	39	35	12	3	6
Race and ethnicity	White 82% of voters	41	34	16	3	3
	Black 3% of voters	—	—	—	—	—
	Hispanic/Latino 10% of voters	32	26	26	5	2

Scale Rows by Population

Easiest data viz to get off the ground

The majority of the data you encounter will be tabular:

	A	B	C	D	E
1	rank	name	description	address	phone
2	1	Asher Brewing Company	This all-organic brewing company in Boulder has an outside patio that's bigger than its modest tasting room. Look for their 16-ounce cans in liquor stores, too.	4699 Nautilus Ct S,Ste 104, Boulder, CO 80301	(303) 530-1381
3	2	Avery Brewing Company	Avery recently relocated to a bigger, better space with even more capacity for creating some of the country's best barrel-aged, sour beers.	4910 Nautilus Ct,Boulder, CO 80301	(303) 440-4324
4	3	Black Bottle Brewery	Looking for one of the best beer lists in the state? Head to Black Bottle Brewing, and prepare to get a little weird.	1611 S College Ave Suite 1609,Fort Collins, CO 80525	(970) 493-2337
5	4	Black Shirt Brewing Co.	This RiNo brewery focuses on red ales, and it has one of the more unique beer list displays in town.	3719 Walnut St,Denver, CO 80205	(303) 993-2799
6	6	Breckenridge Brewery	Breckenridge Brewery, which originally opened in downtown Breckenridge 25 years ago, has grown to be one of the country's 50 largest breweries. Its new digs in Littleton are expansive, on a campus that includes the recently opened Farm House restaurant. Tours of the brewery must be booked online in advance.	2920 Brewery Lane Littleton, CO	
7	5	Boulder Beer Company	Boulder Beer Company was the very first craft brewery in the state of Colorado.	2880 Wilderness Pl,Boulder, CO 80301	(303) 444-8448
8	7	Bristol Brewing Company	This Colorado Springs brewery recently relocated to the old Ivywild School, where visitors can enjoy an onsite restaurant, butcher, bakery, cocktail bar, community gardens, and more.	1604 South Cascade Avenue,Colorado Springs, CO 80905	(719) 633-2555
9		Casey Brewing &	Move over Crooked Stave— Colorado has a newer cult-followed brewery famous for its barrel-aged sour beers. Expect long lines (that are well worth the wait) when Casey releases his new		

Pretty it up

Eater.com's list of 38 essential Denver breweries

Name ⇕	Description ▼	Address ⇕	Phone ⇕
Fate Brewing Company	World-class Kölsch and finger-lickin' barbecue has quickly put Fate on the map as a must-visit Boulder brewery.	1600 38th St,Ste 100, Boulder, CO 80301	(303)449-3283
Wit's End Brewery	Wit's End is another brewery that began brewing one barrel at a time. This humble and comfortable watering hole is well-known for its flagship blonde ale, Jean-Claude Van Blonde.	2505 W 2nd Ave Unit 13,Denver, CO 80219	(303) 359-9119
Upslope Brewery	Upslope is quickly making a name for itself in the brewing world. With award-winning beers and a fantastic taproom in North Boulder, this is one spot that is not to be missed.	1898 S Flatiron Ct,Boulder, CO 80301	(303) 396-1898
Tivoli Brewing Company	Tivoli Brewing is almost back in action. Brewing will continue in this historic building as early as the end of this month.	900 Auraria Parkway,Denver, CO 80204	(303) 582-6039
Black Shirt Brewing Co.	This RiNo brewery focuses on red ales, and it has one of the more unique beer list displays in town.	3719 Walnut St,Denver, CO 80205	(303) 993-2799
Prost Brewing	This LoHi brewery produces traditional German styles of beer on a classic copper brewhouse imported from Europe.	2540 19th St,Denver, CO 80211	(303) 729-1175

Sample Code

```
1   <table class="table table-striped table-responsive">
2     <thead>
3       <tr>
4       ...
5       </tr>
6     </thead>
7     <tbody>
8       ...
9     </tbody>
10  </table>
```

Make that table sortable

State	▼ # Religious day cares	Federal funding received**
◢ Virginia	994	$23,148,122
▮ Alabama	916	$123,437,846
▮ Indiana	662	$111,969,297
◣ Missouri	522	$35,626,304
◥ Florida	407	$28,554,835
◄ North Carolina*	373	Data not available

tSorter

```
1   <table id="sixStates" class="sortable">
2     <thead>
3       <tr class="header">
4         <th data-tsorter="spans">Column 1</th>
5         <th data-tsorter="numeric" class="descend">Column 2</th>
6         <th data-tsorter="currency">Column 3</th>
7       </tr>
8     </thead>
9     <tbody>
10      <tr>
11        <td>..</td>
12      </tr>
13      ...
14    </tbody>
15  </table>
```

Make it sortable, searchable AND paginated

Eater.com's list of 38 essential Denver breweries

Put everything in the cloud

- [Chris Keller's Tabletop to Datatables](#)
- [Lisa William's Illustrated Guide](#)
- [My Tabletop to Datatables Fork](#)

Part of your toolset

Who Gets the Most Clean Energy Subsidies?

By Scott Pham

View Comments () | Email | Print   **Tweet**   **f**   **G+1** **0**

Since 2007, Bloom Energy has received the lion's share of ratepayer subsidies for its Bloom Boxes, which are largely fueled by natural gas.

Search...   Page: 1   Prev   Next

Manufacturer	Total Subsidy ▼	Percent Projects Using Natural Gas	Percent of All Funds
Bloom Energy	$399,178,265	81%	49%
Tesla	$125,847,666	0%	15%
GE Energy	$57,519,303	0%	7%
Fuel Cell Energy	$50,215,000	26%	6%
Green Charge Networks	$22,274,640	0%	2%
UTC Power	$21,952,000	80%	2%
Stem Inc	$12,478,222	0%	1%
Capstone Turbine Corp	$9,616,708	57%	1%
Guascor	$9,580,500	0%	1%
CODA Energy	$6,598,545	0%	~0%
Doosan	$6,534,400	100%	~0%

Select an option below to filter the map.

🟥 Little to no regulation ▲

Church day care facilities face few rules in these states. At some religious day cares, workers don't need to have any child safety training or follow any staff-to-child ratios. In Alabama, Indiana, Missouri and North Carolina, religious day cares can use corporal punishment to discipline children. Freedom from state regulations does not prevent religious day cares from collecting millions of dollars in federal funding.

State	▼ # Religious day cares	Federal funding received**
Virginia	994	$23,148,122
Alabama	916	$123,437,846
Indiana	662	$111,969,297
Missouri	522	$35,626,304
Florida	407	$28,554,835
North Carolina*	373	Data not available

Credits: Scott Pham/Reveal
Research and reporting by Amy Julia Harris/Reveal

Reveal
CIR PRX⟩⟩

Getting buy-in

nympha-impendimenta | tumblr

DUMBLEDORE IS PLEASED
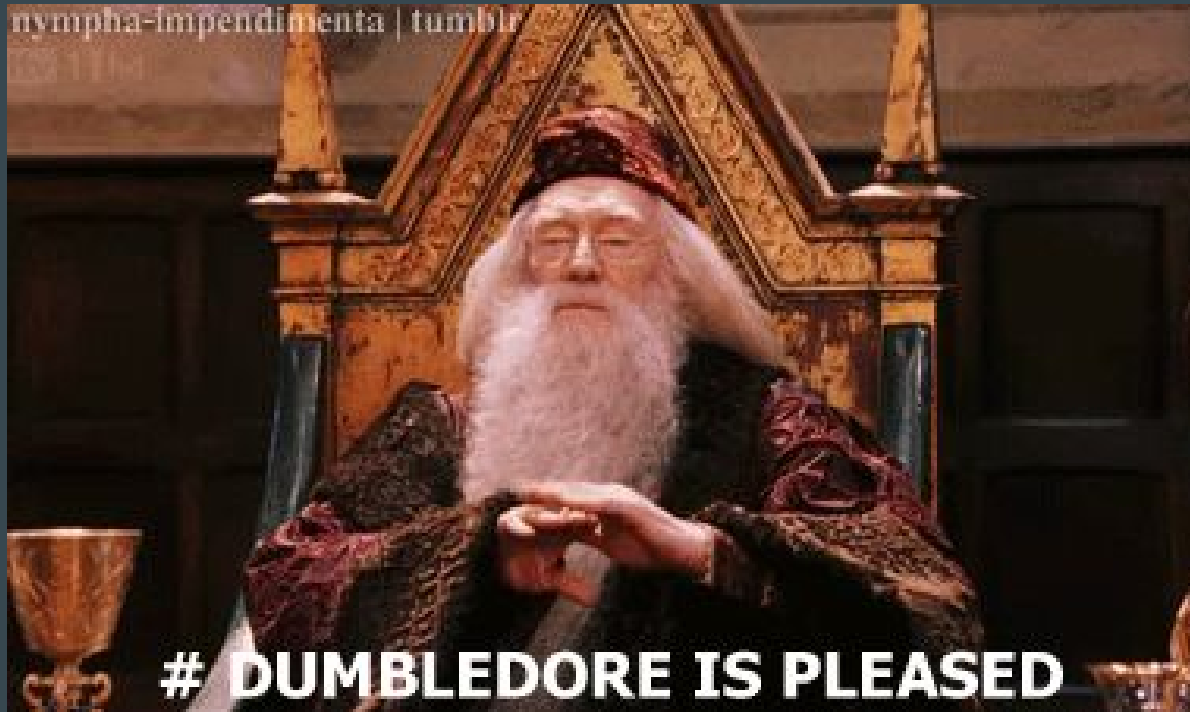
Getting buy-in

- Small wins build demand
- Demand can help with roadblocks
- Build incrementally to stay productive while you learn

Why so lonely?

Alexandra Kanik

Graphic Design

2006 - 2010

Web design
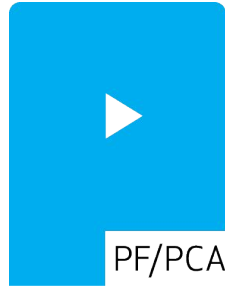
PITTSBURGH
FILMMAKERS

PF/PCA

2010 - 2011

Design, development, data, +++

2011 - 2015

Development, data, editing/writing

METRIC*SHIFT* +

2015 - current

The lonely coder's cocktail

github
browser developer tools
LCC/NICAR-L
Google

The importance of Github

I cannot overstate the importance of Github as a learning tool. The ability to "Frankenstein" projects, or take projects that you know to be functional and replace bits and pieces to customize them, is a great way to **learn on the job**.

Landline / Stateline / Topline

Have state/county data that you need to visualize quickly?
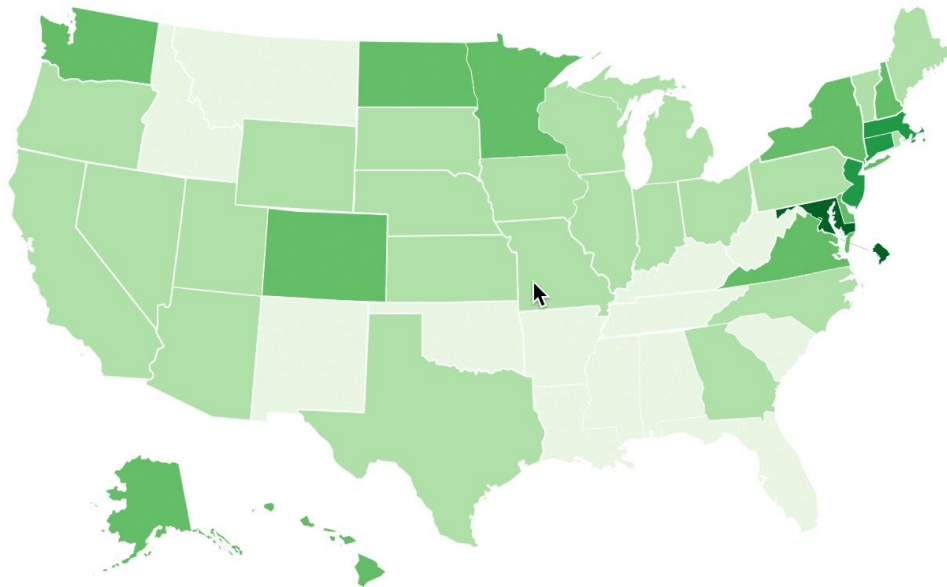
Saturday Github sessions

GitHub 101
Independence
2:15 p.m. - 3:15 p.m.

GitHub 201
Independence
4:45 p.m. - 5:45 p.m.

Browser developer tools
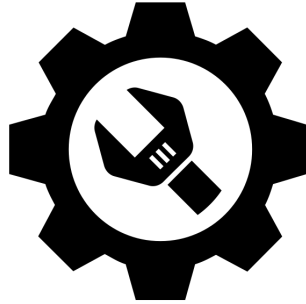
Browser developer tools are some of the strongest diagnostic tools that you'll come across when trying to fix web-based issues. Browser developer tools are also a great way to get a look at dynamically-generated CMS code so you can manipulate it with CSS or javascript.

Opening developer tools

Community: LCC / NICAR-L

"Lonely, but not alone"

Joining online coder communities is essential if you're trying to go it alone.

When you're on deadline and you're just not understanding the problems you're up against, it's invaluable to know that you've got a support system of more experienced coders.

You can and should also use these communities as a way of sharing ideas and expanding your knowledge of how others are solving data journalism problems with code.

Let me google that for you...

Learn how to ask the Google questions. Not all questions are created equal. Having good google skills will save you a lot of time when trying to find answers to questions that you're pretty sure others have had. I'm pretty close to believing that there are no issues that Google can't find an answer to.

Lindsey Cook

Data Editor, U.S. News & World Report

Big Projects
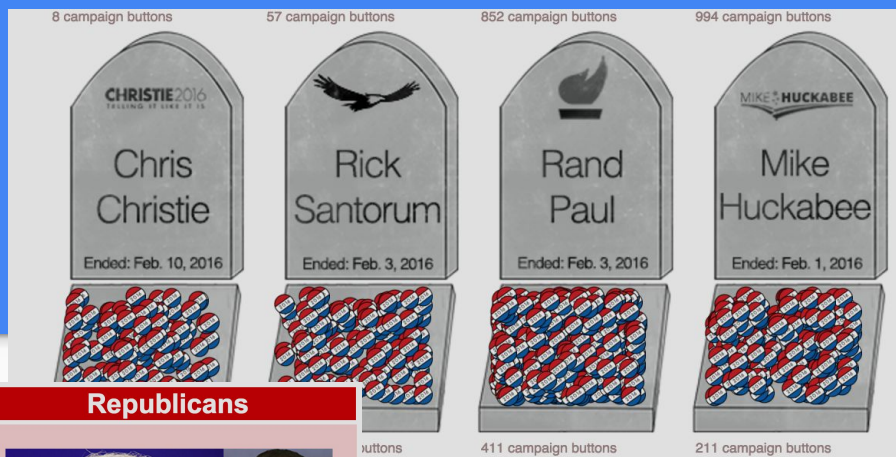
Quartz's Chartbuilder
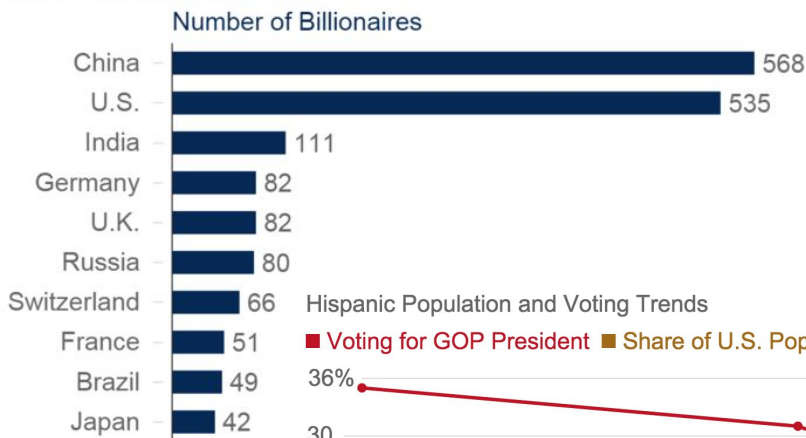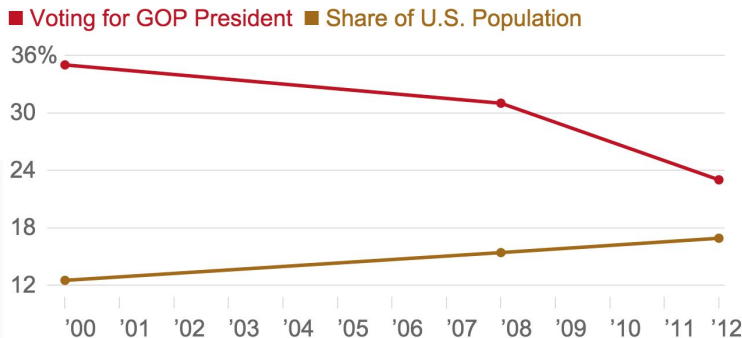
https://quartz.github.io/Chartbuilder/

Make it Yours and Host it Free on Github

http://lindseycook.io/chartbuilder2/

See the tipsheets for the step-by-step details