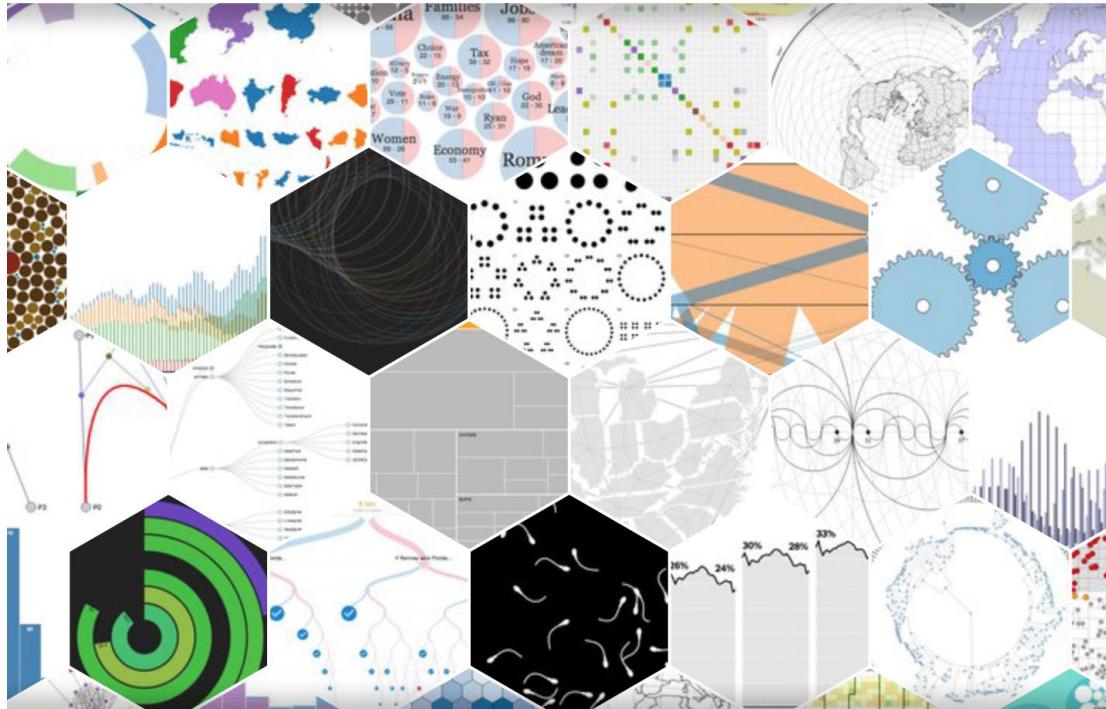


Interactive Online Visualization



Data Driven Documents (D3.js)



<https://d3js.org>

Cases Per Capita

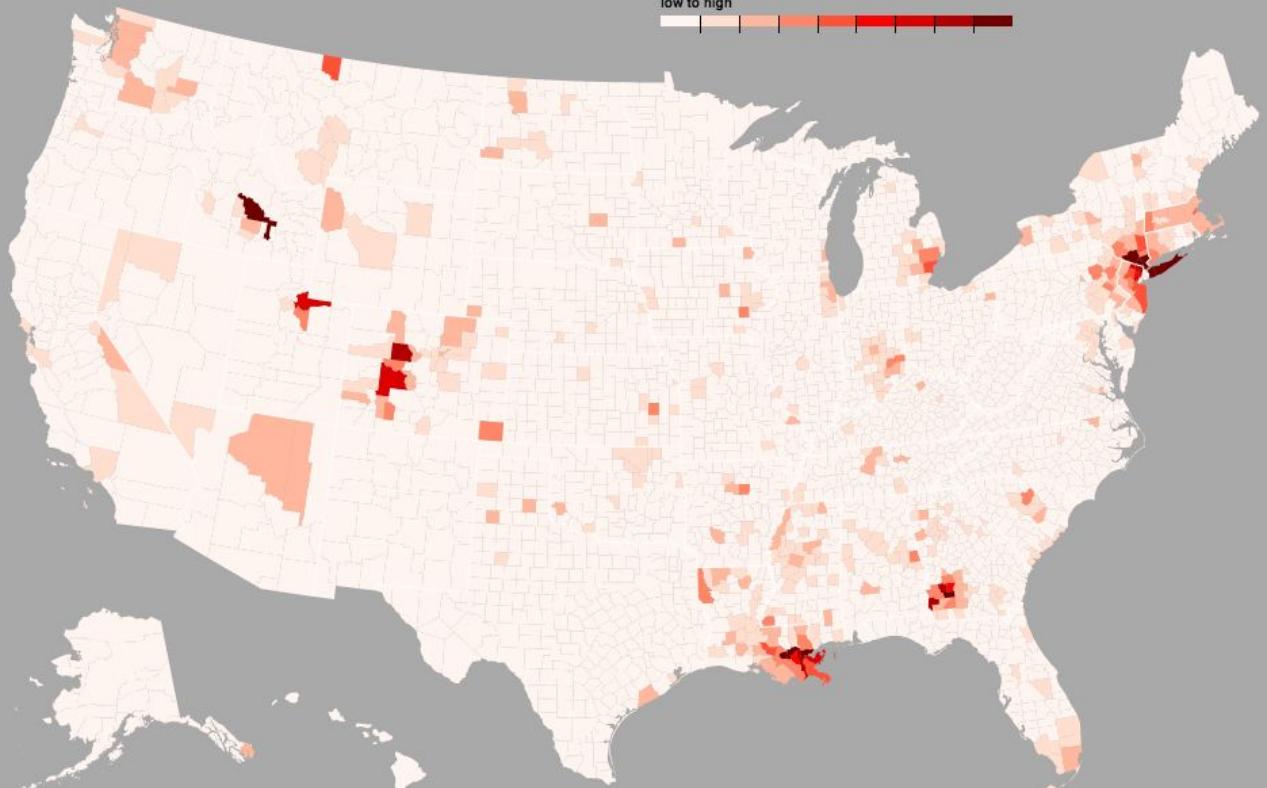
by county for COVID 19 (as of 4/5/2020)

LISTING FOR ALL STATES and ALL POPULATION SIZES

1. Blaine County,Idaho| pop: 23021 | 1781
2. Rockland County,New York| pop: 325789 | 1495
3. Westchester County,New York| pop: 967506 | 1352
4. Orleans Parish,Louisiana| pop: 390144 | 1017
5. Nassau County,New York| pop: 1356924 | 984
6. Suffolk County,New York| pop: 1476601 | 835
7. St. John the Baptist Parish,Louisiana| pop: 42837 | 789
8. Dougherty County,Georgia| pop: 87956 | 779
9. Orange County,New York| pop: 384940 | 712
10. St. James Parish,Louisiana| pop: 21096 | 711
11. Jefferson Parish,Louisiana| pop: 432493 | 696
12. Terrell County,Georgia| pop: 8531 | 668
13. Early County,Georgia| pop: 10190 | 628
14. Bergen County,New Jersey| pop: 932202 | 618
15. Eagle County,Colorado| pop: 55127 | 604
16. Passaic County,New Jersey| pop: 501826 | 569
17. Summit County,Utah| pop: 42145 | 546
18. Union County,New Jersey| pop: 556341 | 524
19. Hudson County,New Jersey| pop: 672391 | 519
20. Gunnison County,Colorado| pop: 17462 | 515
21. St. Bernard Parish,Louisiana| pop: 47244 | 506
22. St. Charles Parish,Louisiana| pop: 53100 | 475
23. Essex County,New Jersey| pop: 798975 | 449
24. Lee County,Georgia| pop: 29992 | 447
25. Wayne County,Michigan| pop: 1749343 | 387
26. Plaquemines Parish,Louisiana| pop: 23197 | 371
27. Iberville Parish,Louisiana| pop: 32511 | 366
28. Monmouth County,New Jersey| pop: 618795 | 334
29. Ocean County,New Jersey| pop: 607186 | 330
30. Morris County,New Jersey| pop: 491845 | 329
31. Dutchess County,New York| pop: 294218 | 319
32. Toole County,Montana| pop: 47361 | 317



SHOW: Cases Per Capita
FILTER BY STATE: All States
FILTER BY POPULATION: All Population Sizes
covid data from [The New York Times](#).
Population estimates from [2019 US Census](#)
"per capita" means rate per 100,000 people



Data Driven Documents (D3.js)

**Open source Javascript library for manipulating documents
(similar in nature to jQuery) and visualizing them.**

*Nonproprietary framework with visualization components

*(Usually) not for Exploratory Data Analysis,
but rather for presenting findings to end users
via an interactive web based visualization*

Data Driven Documents (D3.js)



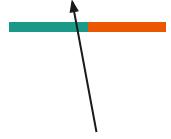
HTML / JS / CSS / SVG

+

Your DATA (csv / json / topojson / tsv / etc)

Data Driven Documents (D3.js)

PAGE LAYOUT



CODE

STYLE

GEOMETRY

HTML / JS / CSS / SVG

+

Your DATA (csv / json / topojson / tsv / etc)

Data Driven Documents (D3.js)

HTML + Scalable Vector Graphics (SVG)

```
<!DOCTYPE html>
<html>
<body>

<h1>My first SVG</h1>

<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>

</body>
</html>
```

Data Driven Documents (D3.js)

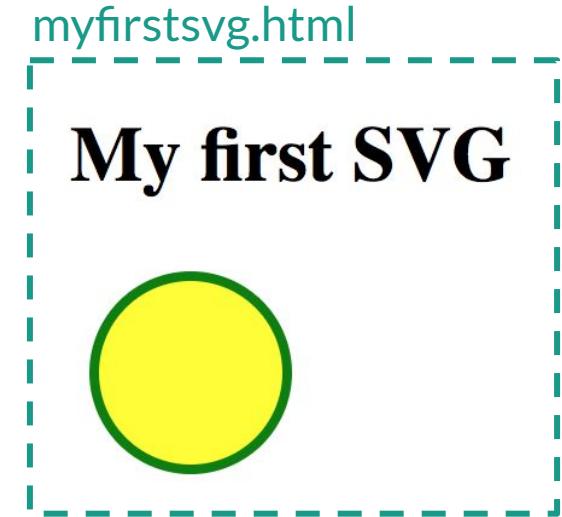
HTML + Scalable Vector Graphics (SVG)

```
<!DOCTYPE html>
<html>
<body>

<h1>My first SVG</h1>

<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>

</body>
</html>
```



Data Driven Documents (D3.js)

HTML + Scalable Vector Graphics (SVG)

```
<html>
<head>
    <script src='d3.v2.min.js'></script>
</head>

<body>
    <h1>my first SVG</h1>
</body>

<script>
d3.select("body")
.append("svg")
.attr("width",100)
.attr("height",100)
.append("circle")
.attr("cx",50) .attr("cy",50) .attr("r",40)
.attr("stroke","green")
.attr("stroke-width",4)
.attr("fill","yellow");
</script>
</html>
```

my first SVG



<http://diegoolano.com/ghosh/d3/circle.html>

Data Driven Documents (D3.js)

D3 basics

Selections: `d3.select("body").style("background-color", "black");`

Data Driven Documents (D3.js)

D3 basics

Selections: `d3.select("body").style("background-color", "black");`

Dynamic changes: `d3.selectAll("p").style("color", function(d, i) {
 return i % 2 ? "red" : "blue";
});`

Data Driven Documents (D3.js)

D3 basics

Selections: `d3.select("body").style("background-color", "black");`

Dynamic changes: `d3.selectAll("p").style("color", function(d, i) {
 return i % 2 ? "red" : "blue";
});`

Creating nodes:

```
d3.select("body")
  .selectAll("p")
  .data([4, 8, 15, 16, 23, 42])
  .enter().append("p")
    .text(function(d) { return "I'm number " + d + "!"; });
```

Data Driven Documents (D3.js)

Loading csv:



```
country,continent,population,GDPcap,GERD,growth
Australia,Oceania,22319.07,40718.78167,2.21367,2.48590317
Austria,Europe,8427.318,42118.46375,2.74826,3.10741128
Belgium,Europe,10590.44,38809.66436,1.96158,1.89308521
Canada,America,33909.7,39069.91407,1.80213,3.21494841
Chile,America,17248.45,15106.73205,0.39451,5.19813626
Czech Republic,Europe,10286.3,25956.76492,1.52652,1.65489834
Denmark,Europe,5495.246,40169.83173,3.01937,1.04974368
Estonia,Europe,1335.347,22403.02459,1.44122,7.63563272
Finland,Europe,5366.482,37577.71225,3.84137,2.85477157
```

Data Driven Documents (D3.js)

Loading csv:



```
country,continent,population,GDPcap,GERD,growth
Australia,Oceania,22319.07,40718.78167,2.21367,2.48590317
Austria,Europe,8427.318,42118.46375,2.74826,3.10741128
Belgium,Europe,10590.44,38809.66436,1.96158,1.89308521
Canada,America,33909.7,39069.91407,1.80213,3.21494841
Chile,America,17248.45,15106.73205,0.39451,5.19813626
Czech Republic,Europe,10286.3,25956.76492,1.52652,1.65489834
Denmark,Europe,5495.246,40169.83173,3.01937,1.04974368
Estonia,Europe,1335.347,22403.02459,1.44122,7.63563272
Finland,Europe,5366.482,37577.71225,3.84137,2.85477157
```

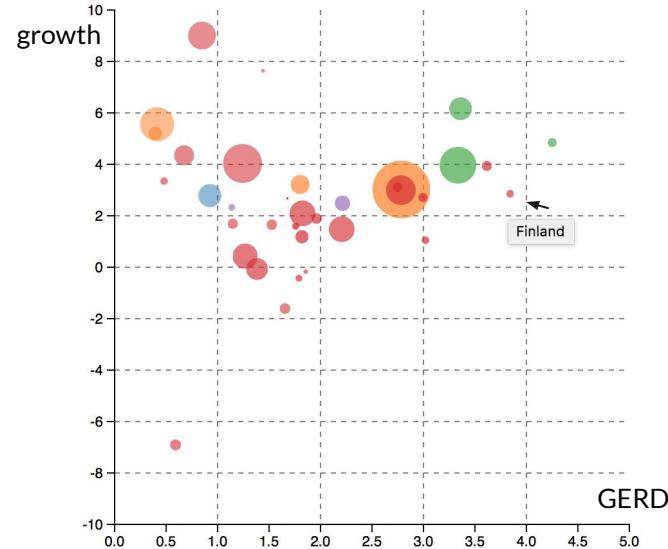
```
d3.csv("data.csv",function(csv) {
  csv.sort(function(a,b) {return b.population-a.population;}); //
  svg.selectAll("circle").data(csv).enter()
    .append("circle")
    .attr("cx",function(d) {return x(+d.GERD);})
    .attr("cy",function(d) {return y(+d.growth);})
    .attr("r",function(d) {return r(Math.sqrt(+d.population));})
    .style("fill",function(d) {return c(d.continent);})
    .style("opacity",function(d) {return o(+d.GDPcap);})
    .append("title")
    .text(function(d) {return d.country;})
})
```

Data Driven Documents (D3.js)

Loading csv:

```
d3.csv("data.csv",function(csv) {  
    csv.sort(function(a,b) {return b.population-a.population;}); //  
    svg.selectAll("circle").data(csv).enter()  
        .append("circle")  
        .attr("cx",function(d) {return x(+d.GERD);})  
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        .attr("r",function(d) {return r(Math.sqrt(+d.population));})  
        .style("fill",function(d) {return c(d.continent);})  
        .style("opacity",function(d) {return o(+d.GDPcap);})  
        .append("title")  
        .text(function(d) {return d.country;})  
})
```

```
country,continent,population,GDPcap,GERD,growth  
Australia,Oceania,22319.07,40718.78167,2.21367,2.48590317  
Austria,Europe,8427.318,42118.46375,2.74826,3.10741128  
Belgium,Europe,10590.44,38809.66436,1.96158,1.89308521  
Canada,America,33909.7,39069.91407,1.80213,3.21494841  
Chile,America,17248.45,15106.73205,0.39451,5.19813626  
Czech Republic,Europe,10286.3,25956.76492,1.52652,1.65489834  
Denmark,Europe,5495.246,40169.83173,3.01937,1.04974368  
Estonia,Europe,1335.347,22403.02459,1.44122,7.63563272  
Finland,Europe,5366.482,37577.71225,3.84137,2.85477157
```



INSPECT SOURCE -> <http://diegoolano.com/ghosh/d3/data-example2.html>

Data Driven Documents (D3.js)

Hello world (hands on)

STEP 1. Download the visualization via the following command line commands or in browser (“Save Page As”)

```
wget http://diegoolano.com/ghosh/d3/data-example2.html
```

or

```
curl -O http://diegoolano.com/ghosh/d3/data-example2.html
```

Data Driven Documents (D3.js)

Hello world (hands on)

STEP 1. Download the visualization via the following command line commands or in browser ("Save Page As")

```
wget http://diegoolano.com/ghosh/d3/data-example2.html
```

or

```
curl -O http://diegoolano.com/ghosh/d3/data-example2.html
```

STEP 2. Find and get the data, and then look at what you've done!

```
wget http://diegoolano.com/ghosh/d3/data.csv
```

Data Driven Documents (D3.js)

Hello world (hands on)

STEP 1. Download the visualization via the following command line commands or in browser (“Save Page As”)

```
wget http://diegoolano.com/ghosh/d3/data-example2.html
```

or

```
curl -O http://diegoolano.com/ghosh/d3/data-example2.html
```

STEP 2. Find and get the data, and then look at what you've done!

```
wget http://diegoolano.com/ghosh/d3/data.csv
```

STEP 3. Change something (either in the data or the code!)

Data Driven Documents (D3.js)

Tutorials: <https://github.com/d3/d3/wiki/Tutorials>

Observable (D3 in “Notebooks”): <https://observablehq.com/@d3/learn-d3>

Build from Visualizations from scratch

OR

- 1) Find a visualization that roughly suits your needs
(<https://bl.ocks.org/> , <http://blockbuilder.org/search> , etc)
- 2) Download it and figure out how it works
- 3) Put in your own data and change the code accordingly
- 4) Put it up somewhere for others to see (high five yourself)

*right click -> Inspect Element to see code and change in browser (this doesn't save changes to code!)

*for local development, you may need a web server (see www.mamp.info for a simple one)

(advanced) Observable HQ

observablehq.com/@diegoolano

Observable Search Teams Explore New

Diego Garcia-Olano Personal 1 Notebook 0 Likes 0 Forks ...

Home Quickstart

Welcome to Observable! Choose your own adventure:

7 minute read
A Taste of Observable ✓
Get a feel for how Observable notebooks work with real data.

9 part series
Learn D3 ✓
A guided tour of your first steps using D3.

4 part series
Charting with Vega-Lite ✓
So you want to make a chart...

3 part series
Observable for Jupyter Users ✓
A tailored introduction to Observable from the Jupyter & Python perspective.

Examples: <https://observablehq.com/@krisrs1128/remembrances-of-states-past>

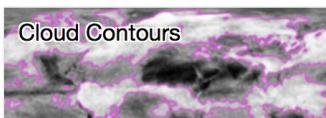
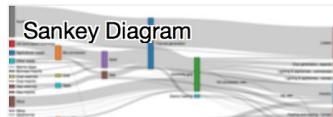
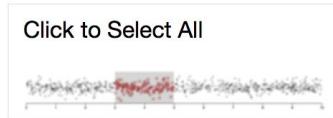
<https://observablehq.com/@diegoolano/countries-winning-nobel-literature-prizes>

Data Driven Documents (D3.js)



Mike Bostock's Blocks
Updated November 19, 2017

[Popular](#) / [About](#)



Search the Bl.ocks

Texas

Search

username

API functions: d...

with thumbnail image

d3-modules any version

- + d3-legend
- + d3-tip
- + d3-jetpack
- + d3-queue
- + d3-tile
- + d3-array
- + d3-geo
- + d3-starterkit
- + d3-annotation
- + d3-scale
- + d3-color
- + d3-interpolate
- + d3-time
- + d3-timer
- + d3-collection
- + d3-random
- + d3-selection
- + d3-contour
- + d3-grid
- + d3-format

Emergency Rooms...

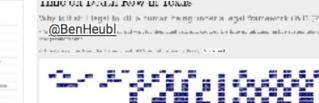
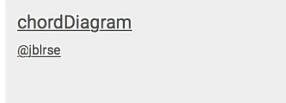
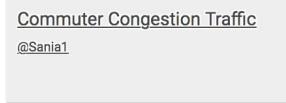
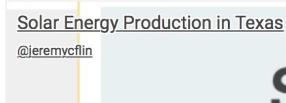
ts Reported by Tex...

1.0

with d3 sunburst f...



Showing 83/83 of the most relevant blocks.



NHTSA Time Series

Counties of Chihuahua (south of Texas)

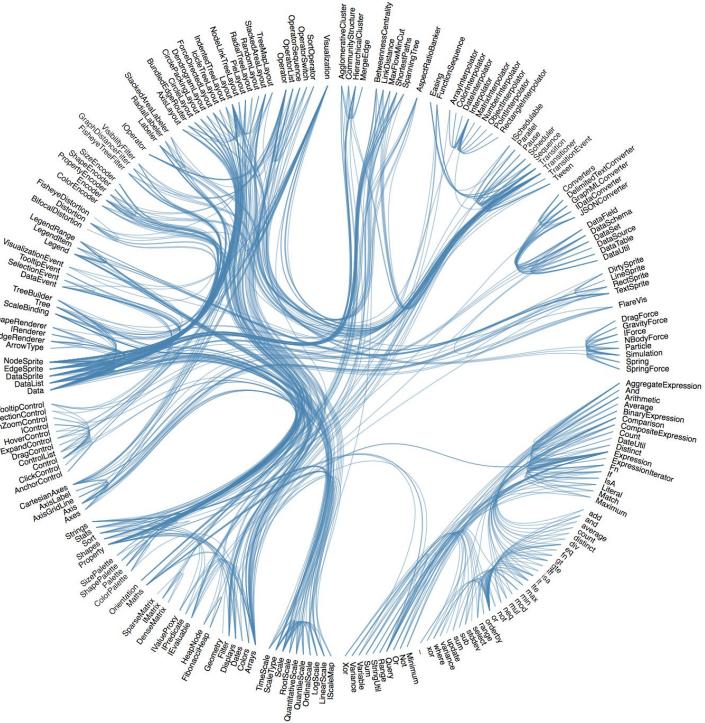
NHTSA Time Series Storyboard...

Datamaps version of http://porta...

<http://blockbuilder.org/search>

Data Driven Documents (D3.js)

Hierarchical Edge Bundling



```
<!DOCTYPE html>
<style>

.node {
  font: 10px sans-serif;
}

.link {
  stroke: steelblue;
  stroke-opacity: 0.5;
  fill: none;
  pointer-events: none;
}

</style>
<body>
<script src="https://d3js.org/d3.v4.min.js"></script>
<script>

var diameter = 960,
    radius = diameter / 2,
    innerRadius = radius - 120;

var cluster = d3.cluster()
  .size([360, innerRadius]);

var line = d3.radialLine()
  .curve(d3.curveBundle.beta(0.85))
  .radius(function(d) { return d.y; })
  .angle(function(d) { return d.x / 180 * Math.PI; });

var svg = d3.select("body").append("svg")
  .attr("width", diameter)
  .attr("height", diameter)
  .append("g")
  .attr("transform", "translate(" + radius + "," + radius + ")");

var link = svg.append("g").selectAll(".link"),
    node = svg.append("g").selectAll(".node");

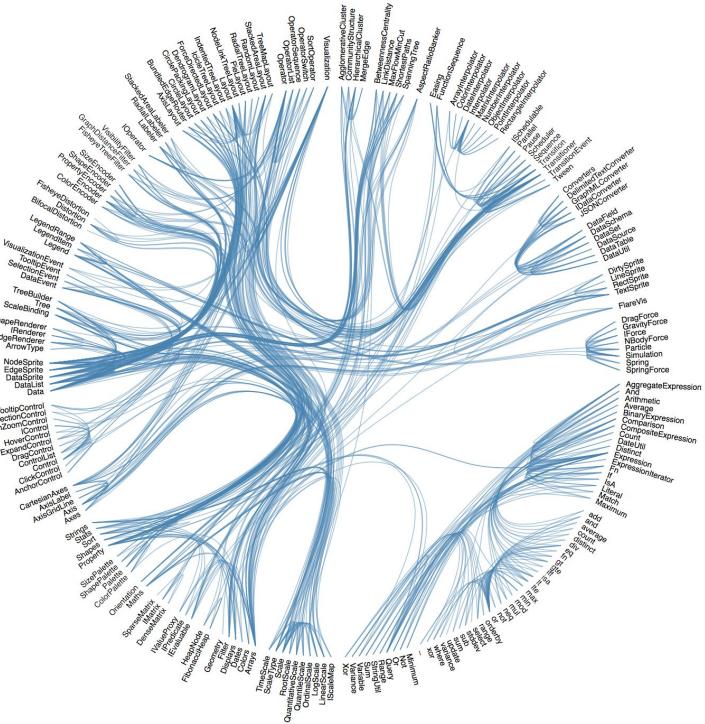
d3.json("flare.json", function(error, classes) {
  if (error) throw error;

  var root = packageHierarchy(classes)
    .sum(function(d) { return d.size; });

  cluster(root);
```

Data Driven Documents (D3.js)

Hierarchical Edge Bundling



```
<!DOCTYPE html>
<style>

.node {
  font: 10px sans-serif;
}

.link {
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<body>
<script src="https://d3js.org/d3.v4.min.js"></script>
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var diameter = 960,
  radius = diameter / 2,
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var cluster = d3.cluster()
  .size([360, innerRadius]);

var line = d3.radialLine()
  .curve(d3.curveBundle.beta(0.85))
  .radius(function(d) { return d.y; })
  .angle(function(d) { return d.x / 180 * Math.PI; });

var svg = d3.select("body").append("svg")
  .attr("width", diameter)
  .attr("height", diameter)
  .append("g")
  .attr("transform", "translate(" + radius + "," + radius + ")");

var link = svg.append("g").selectAll(".link"),
  node = svg.append("g").selectAll(".node");

d3.json("flare.json", function(error, classes) {
  if (error) throw error;

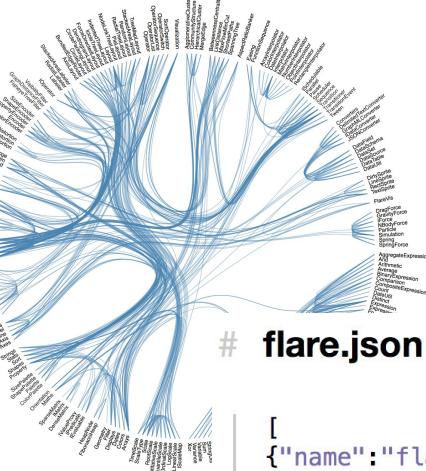
  var root = packageHierarchy(classes)
    .sum(function(d) { return d.size; });

  cluster(root);
}

your data
```

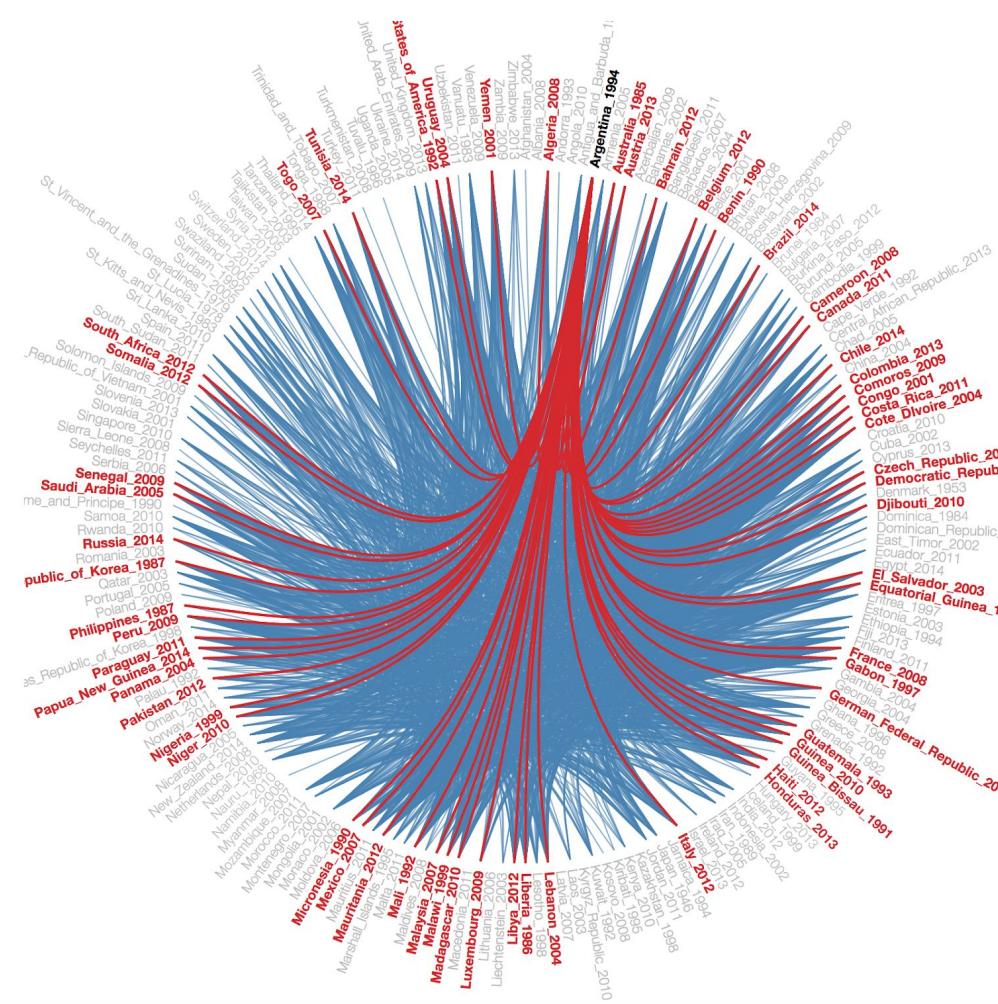
Data Driven Documents (D3.js)

Hierarchical Edge Bundling



your data

```
[{"name": "flare.analytics.cluster.AgglomerativeCluster", "size": 3938, "imports": ["flare.animate.Transit..."}, {"name": "flare.analytics.cluster.CommunityStructure", "size": 3812, "imports": ["flare.analytics.cluster..."}, {"name": "flare.analytics.cluster.HierarchicalCluster", "size": 6714, "imports": ["flare.vis.data.EdgeSpr..."}, {"name": "flare.analytics.cluster.MergeEdge", "size": 743, "imports": []}, {"name": "flare.analytics.graph.BetweennessCentrality", "size": 3534, "imports": ["flare.animate.Transiti..."}, {"name": "flare.analytics.graph.LinkDistance", "size": 5731, "imports": ["flare.animate.Transitioner", "fl..."}, {"name": "flare.analytics.graph.MaxFlowMinCut", "size": 7840, "imports": ["flare.animate.Transitioner", "fl..."}, {"name": "flare.analytics.graph.ShortestPaths", "size": 5914, "imports": ["flare.data.EdgeSprite", "fl..."}, {"name": "flare.analytics.graph.SpanningTree", "size": 3416, "imports": ["flare.animate.Transitioner", "fl..."}, {"name": "flare.analytics.optimization.AspectRatioBanker", "size": 7074, "imports": ["flare.animate.Trans..."}, {"name": "flare.animate.Easing", "size": 17010, "imports": ["flare.animate.Transition"]}, {"name": "flare.animate.FunctionSequence", "size": 5842, "imports": ["flare.util.Maths", "flare.animate.Tr..."}, {"name": "flare.animate.interpolate.ArrayInterpolator", "size": 1983, "imports": ["flare.util.Arrays", "fl..."}, {"name": "flare.animate.interpolate.ColorInterpolator", "size": 2047, "imports": ["flare.animate.interpol..."}]
```

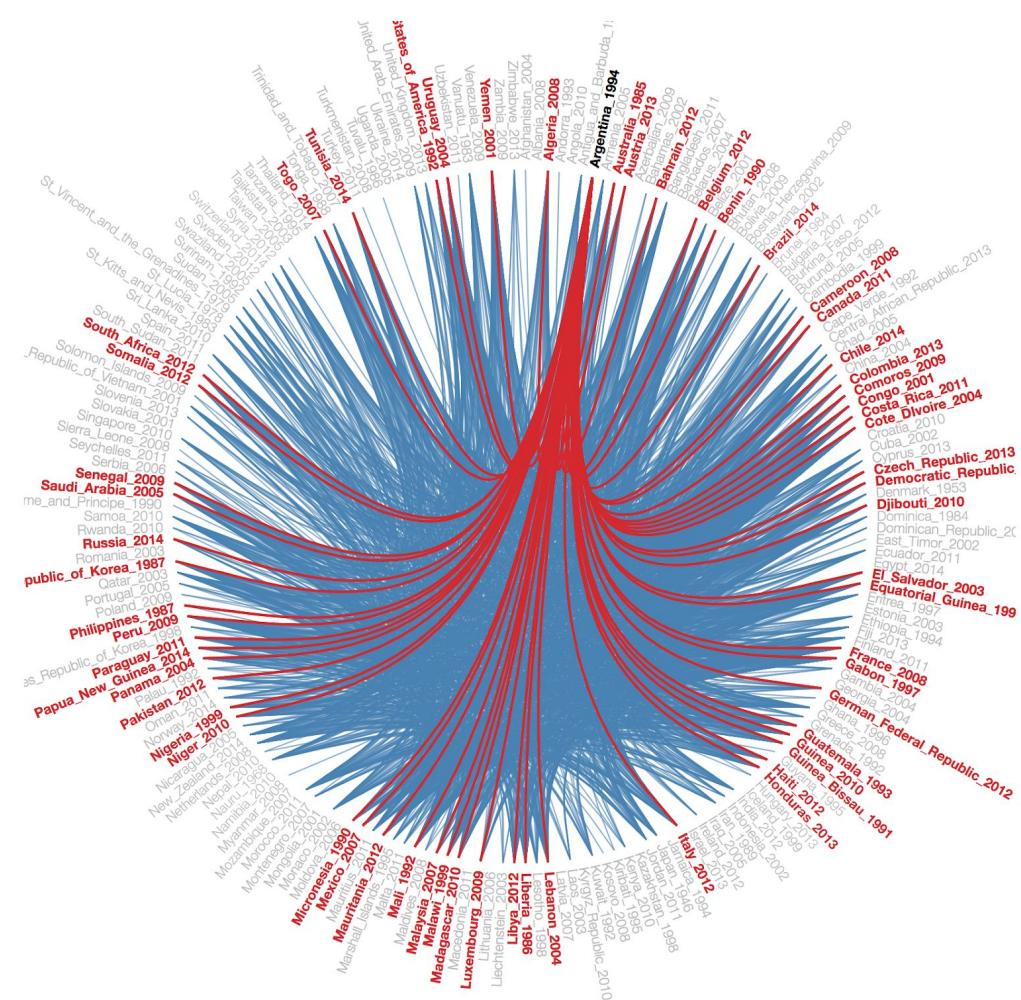


Argentina_1994

[view constitution](#)

Similarity Country

58	United_States_of_America_1992	view constitution
45	Congo_2001	view constitution
39	Micronesia_1990	view constitution
39	Lebanon_2004	view constitution
33	Saudi_Arabia_2005	view constitution
33	Libya_2012	view constitution
30	Belgium_2012	view constitution
29	Canada_2011	view constitution
29	Mexico_2007	view constitution
28	Czech_Republic_2013	view constitution
25	Mauritania_2012	view constitution
23	Australia_1985	view constitution
23	Uruguay_2004	view constitution
23	Malawi_1999	view constitution
23	Cameroon_2008	view constitution
23	Gabon_1997	view constitution
21	Nigeria_1999	view constitution
21	Honduras_2013	view constitution
21	Djibouti_2010	view constitution
20	German_Federal_Republic_2012	view constitution
20	Luxembourg_2009	view constitution
20	France_2008	view constitution
19	Cote_Divoire_2004	view constitution
18	Costa_Rica_2011	view constitution
18	Mali_1992	view constitution
18	El_Salvador_2003	view constitution
18	Italy_2012	view constitution
18	Russia_2014	view constitution
17	Malaysia_2007	view constitution
17	Comoros_2009	view constitution
17	Austria_2013	view constitution
17	Togo_2007	view constitution
16	Brazil_2014	view constitution
16	Peru_2009	view constitution
16	Equatorial_Guinea_1995	view constitution
15	Colombia_2013	view constitution



A text analysis of the constitutions of individual countries.
[code at github](#)

viz 101:

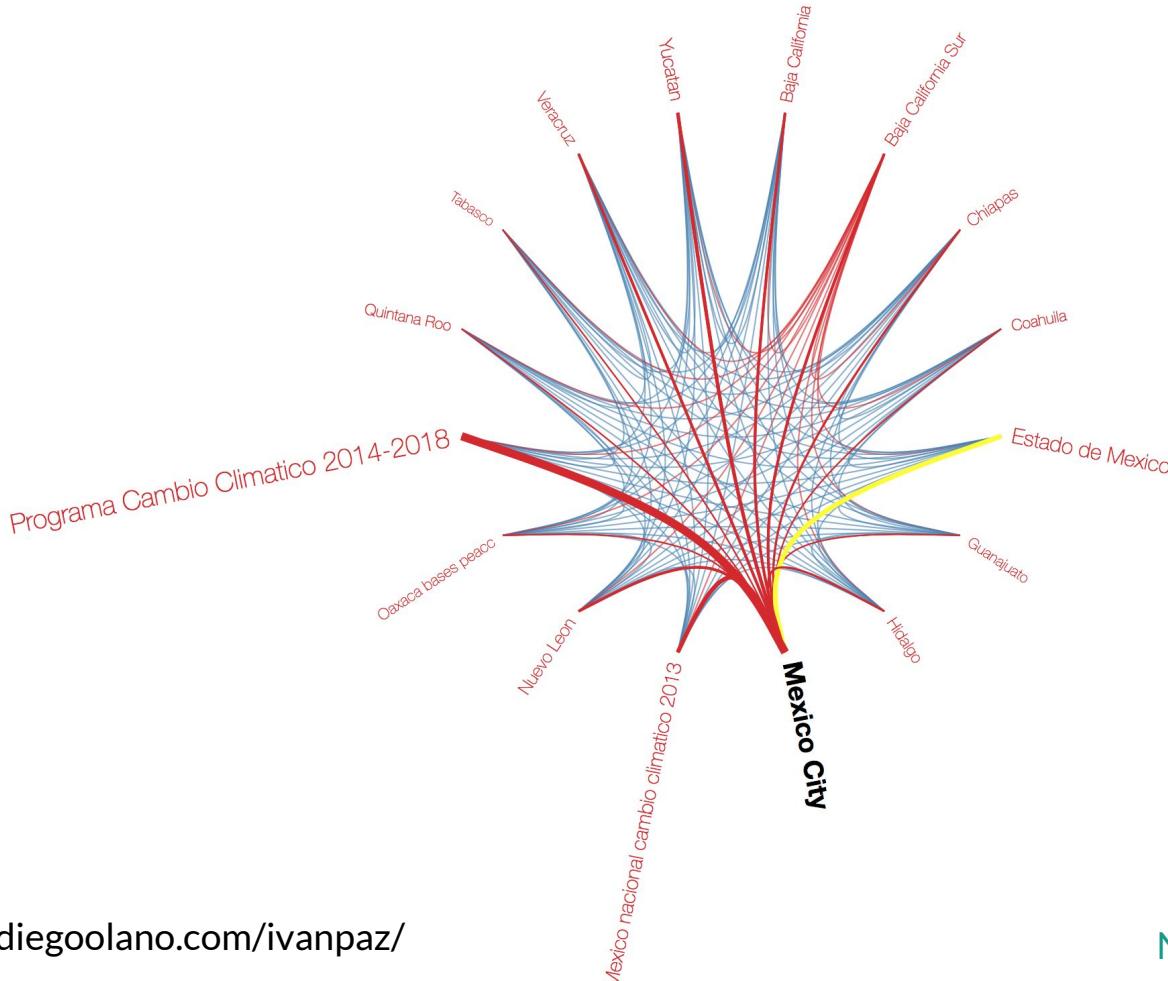
Size Matters

Color Matters

What's the story?

See Tufte

https://www.edwardtufte.com/tufte/books_ei

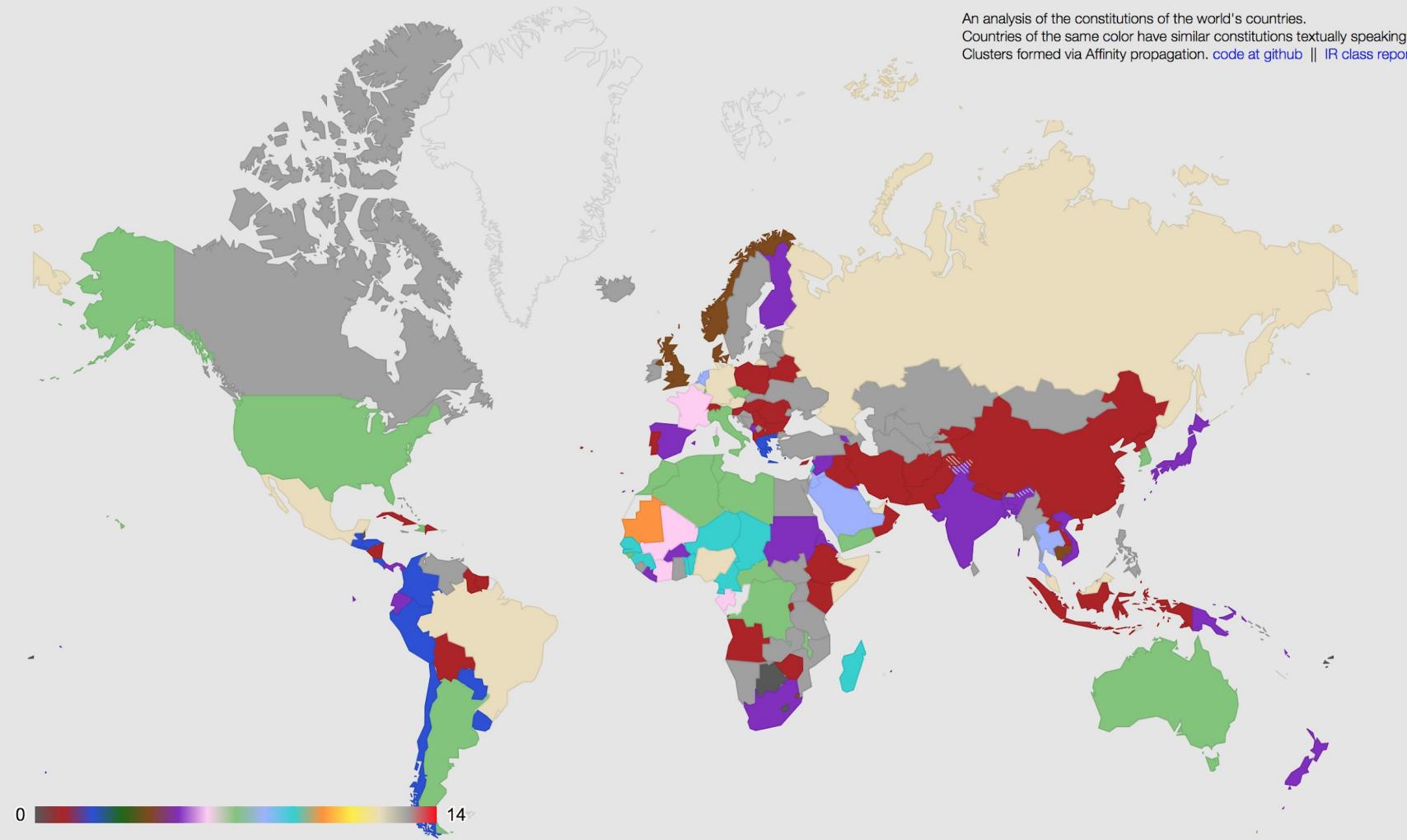


Mexico City

Similarity State

56	Programa Cambio Climatico 2014-2018
33	Estado de Mexico
27	Mexico nacional cambio climatico 2013
22	Yucatan
17	Nuevo Leon
17	Baja California Sur
14	Veracruz
14	Baja California
13	Chiapas
10	Hidalgo
8	Oaxaca bases peacc
8	Coahuila
7	Quintana Roo
5	Guanajuato
3	Tabasco

An analysis of the constitutions of the world's countries.
Countries of the same color have similar constitutions textually speaking.
Clusters formed via Affinity propagation. [code at github](#) || [IR class report](#)



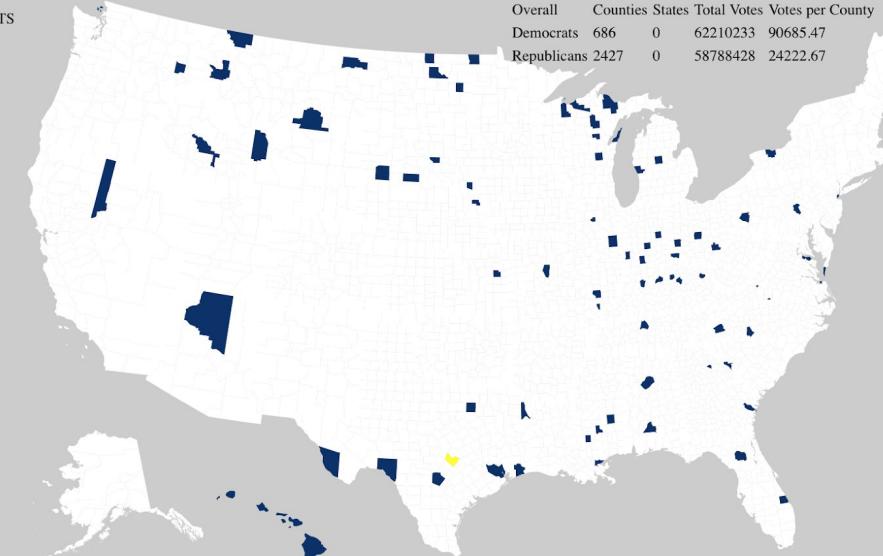
Exact same data as presented before !

<http://diegoolano.com/ir/constitutions-map.html>

2012 US PRESIDENTIAL ELECTION RESULTS

BLUE ISLANDS

- Jefferson, AL
- Conecuh, AL
- Coconino, AZ
- Alachua, FL
- St. Lucie, FL
- Clarke, GA
- Liberty, GA
- Hawaii, HI
- Kauai, HI
- Maui, HI
- Maui, HI
- Maui, HI
- Maui, HI
- Honolulu, HI
- Kauai, HI
- Latah, ID
- Blaine, ID
- Putnam, IL
- Champaign, IL
- Jackson, IL
- Alexander, IL
- Delaware, IN
- Marion, IN
- Vigo, IN
- Monroe, IN
- Perry, IN
- Douglas, KS
- Jefferson, KY
- Franklin, KY
- Elliott, KY
- Fayette, KY
- Caddo, LA
- Orleans, LA
- Dukes, MA
- Nantucket, MA
- Gogebic, MI
- Isabella, MI
- Muskegon, MI
- Marquette, MI
- Kittson, MN
- Boone, MO
- Jasper, MS
- Jefferson Davis, MS
- Pike, MS
- Glacier, MT
- Roosevelt, MT
- Missoula, MT
- Big Horn, MT
- Buncombe, NC
- Mecklenburg, NC
- Rolette, ND
- Benson, ND
- Steele, ND
- Thurston, NE
- Washoe, NV
- Monroe, NY
- Richmond, NY
- Franklin, OH
- Montgomery, OH
- Athens, OH
- Hamilton, OH
- Allegheny, PA
- Dauphin, PA
- McCormick, SC
- Buffalo, SD
- Shannon, SD
- Todd, SD
- Clay, SD
- Davidson, TN
- Dallas, TX
- Presidio, TX
- Travis, TX
- Val Verde, TX
- Jefferson, TX
- Harris, TX
- Bexar, TX
- Westmoreland, VA
- Northampton, VA
- Roanoke City, VA
- Norfolk City, VA
- Danville City, VA
- San Juan, WA
- Forest, WI
- Menominee, WI
- Winnebago, WI
- Ashland, WI
- Door, WI
- Teton, WY



	Overall	Counties	States	Total Votes	Votes per County
Democrats	686	0	62210233	90685.47	
Republicans	2427	0	58788428	24222.67	

Heaviest GOP (90% up)

- King, TX (96.53%)
- Wibaux, MT (94.39%)
- Roberts, TX (94.23%)
- Madison, ID (94.17%)
- Franklin, ID (94.11%)
- Sterling, TX (93.67%)
- Glasscock, TX (92.28%)
- Hansford, TX (91.88%)
- Oldham, TX (91.72%)
- Rich, UT (91.62%)
- Ochiltree, TX (91.48%)
- Grant, NE (91.48%)
- Millard, UT (91.25%)
- Uintah, UT (91.23%)
- Wallace, KS (91.17%)
- Leslie, KY (91.11%)
- Morgan, UT (91.01%)
- Borden, TX (91.01%)
- Sevier, UT (90.85%)
- Duchesne, UT (90.77%)
- Motley, TX (90.73%)
- Hayes, NE (90.44%)
- Garfield, MT (90.41%)
- Piute, UT (90.39%)
- Cimarron, OK (90.39%)
- Shackelford, TX (90.29%)
- Hartley, TX (90.28%)
- Blaine, NE (90.24%)
- Utah, UT (90.01%)

Heaviest DEM (85% up)

- Shannon, SD (93.95%)
- District of Columbia, DC (92.77%)
- Bronx, NY (91.64%)
- Prince George's, MD (90.78%)
- Petersburg City, VA (90.40%)
- Jefferson, MS (89.06%)
- Baltimore City, MD (88.74%)
- Claiborne, MS (88.40%)
- Macon, AL (87.25%)
- Starr, TX (86.94%)
- Menominee, WI (86.93%)
- San Francisco, CA (86.26%)
- Philadelphia, PA (85.85%)
- New York, NY (85.25%)
- Clayton, GA (85.19%)

HIGHEST GOP VOTE COUNTS

- Maricopa, AZ (654835 votes)
- Orange, CA (541592 votes)
- Tarrant, TX (348686 votes)
- Riverside, CA (290227 votes)
- Duval, FL (211553 votes)
- Salt Lake, UT (198739 votes)
- Collin, TX (195933 votes)

HIGHEST DEMOCRAT VOTE COUNTS

- Los Angeles, CA (1672164 votes)
- Cook, IL (1439123 votes)
- King, WA (599796 votes)
- Wayne, MI (595253 votes)
- Harris, TX (585451 votes)

County: Travis, TX

Democrats(231540) vs GOP(139503) with 62.40 % of vote

[close](#)

- cities: Austin, Del Valle, Leander, Manchaca, Manor, Mc Neil, Pflugerville, Spicewood

- socioeconomic indicators (blue means value is in top 3rd Quartile range, red means in lower 1st Quartile)

Population	Median earnings	Income index	Education Index	Gini Coeff.	White	African	Asian	Latino	Native American	Other
1024266	30442	67.77	87.38	0.487	50.5	8.1	5.7	33.5	0.3	2

Below Federal Poverty Threshold Children under 6 in poverty Children living in poverty Adults 65 and up in poverty

16.2 21.4 21.4 8

less than highschool at least high school at least bachelors graduate degree Preschool Enrollment School enrollment

13.7 86.3 43.5 15.9 46.6 75

Construction/repair Farming/fishing/forestry Management/professional Production/transport Sales/office Service

9.6 0.1 43.8 6.6 23.9 16

- public health indicators (blue means value is in lower 1st quartile, red means in higher 3rd Quartile)

male	female	adult obese	air pollution	q ambulatory care	dentistry	diabetic	drive alone	excess drinking	fair poor health	fast food resp
51.6	48.4	25	4	57	0.05	7	73	22	14	51

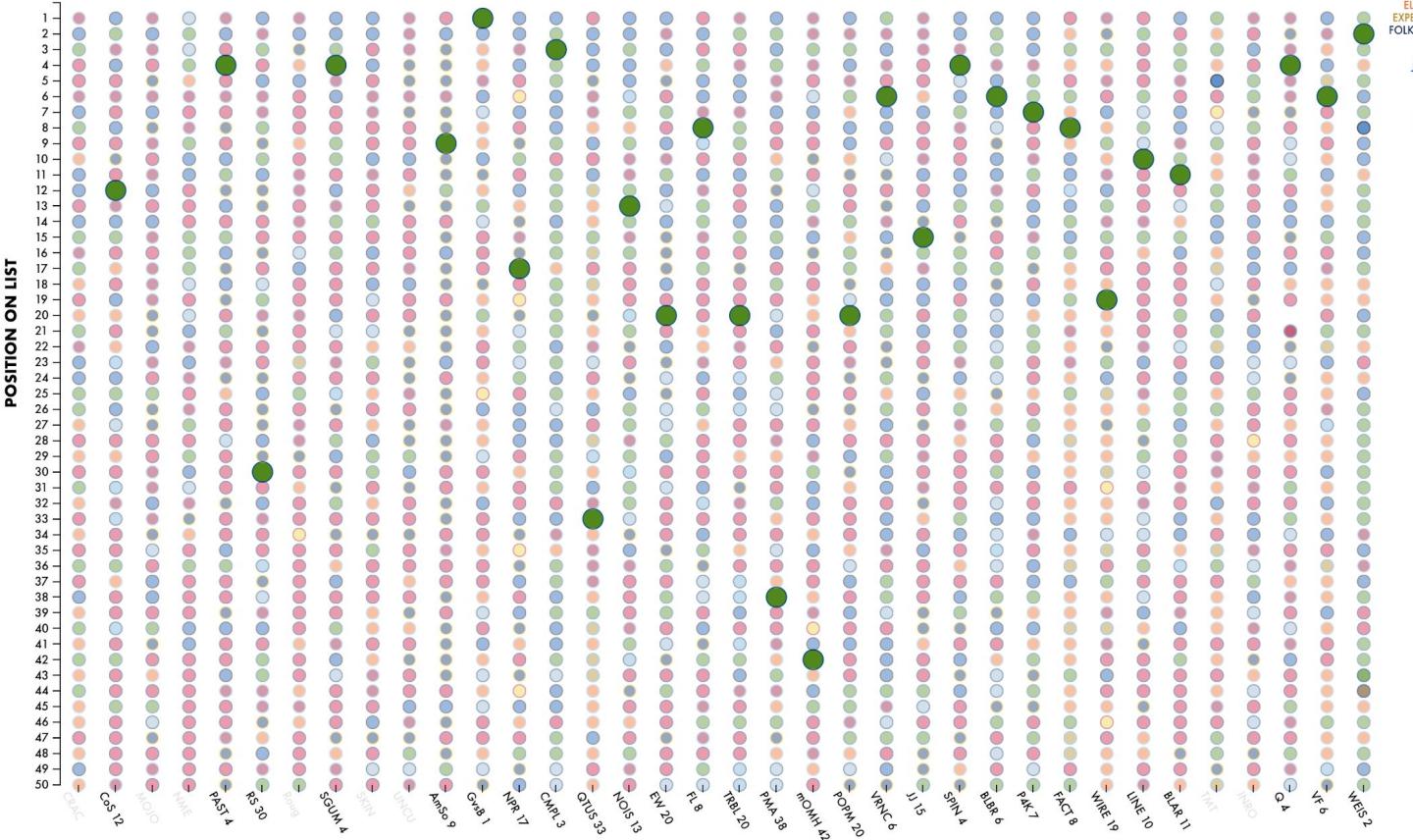
freelunch gini health costs healthy food illiteracy low birth rate mammography mental days motor death mph ratio no emotional support

44 0.49 9982 74 12.9 7.4 68.2 3.3 12 0.07 22

no english physician ratio reefac rural sick days single parent smokers stds per 100 teen birth rate unemployed uninsured x violent crime

13.7 0.09 11.1 7 2.8 33 17 599 54 6.9 24 444

End Of Year Albums 2016



A Tribe Called Quest - We Got It From Here... ([Hip-Hop](#)) IN 28 OF 36 LISTS. HIGHEST RANK: 1 ([GVSB](#)) AVG RANK: 13 [LISTEN!](#)

MUSIC SITES THAT LIKED THIS ALBUM ALSO LIKED:

1. FRANK OCEAN - BLONDE ([R&B/SOUL](#))
2. DAVID BOWIE - BLACKSTAR ([ROCK](#))
3. RADIOHEAD - A MOON SHAPED POOL ([ROCK](#))

4. SOLANGE - A SEAT AT THE TABLE ([R&B/SOUL](#))
5. ANGEL OLSEN - MY WOMAN ([INDIE](#))
6. BEYONCE - LEMONADE ([R&B/SOUL](#))

7. DANNY BROWN - ATROCITY EXHIBITION ([HIP-HOP](#))
8. MITSKI - PUBERTY 2 ([INDIE](#))
9. KANYE WEST - THE LIFE OF PABLO ([HIP-HOP](#))

ABOUT

Aggregating end of year lists for music discovery

FILTER BY GENRE BANDS TO abc rank

ALL 2 814
 CLASSIC 2 CHAINZ
 ELECTRONIC 21 SAVAGE
 EXPERIMENTAL 72 CARL BILL
 FOLK-COUNTRY 80INK
 HIP-HOP 1 A TRIBE CALLED QUEST
 INDIE 1 AWA
 JAZZ-FUNK 1 A.B. ORIGINAL
 METAL 1 ANOHNI
 POP 1 ASAP FERG
 PUNK 1 AURORA
 R&B-SOUL 1 AARON LEE TASJAN
 ROCK 1 ABI REIMOLD
 SLEEPERS 1 ABRA
 AEGIS ROCK
 AGAINST ME!
 AGNES OBEL
 ALA.NI
 ALEX CAMERON
 ALICIA KEYS
 ALL GET OUT
 ALLAH-LAS
 AMANDA SHIRES
 AMERICAN FOOTBALL
 AMNESIA SCANNER
 ANDERSON .PAAK
 ANDREW BIRD
 ANDY BIRCH
 ANDY STOTT
 ANENON
 ANGEL OLSEN
 ANNA MEREDITH
 ANXIETY
 APHEX TWIN
 ARABROT
 ARCA
 ARIANA GRANDE
 AUTOCHRE - ELSEQ
 BADBADNOTGOOD
 BE
 BJ THE CHICAGO KID
 BRONCHO
 BAUHAUS
 BABYFATHER
 BABYMETAL
 BALANCE AND COMPOSURE
 BAND OF HORSES
 BARBARA HANNIGAN
 BARONESS
 BASEMENT
 BASTILLE
 BAT FOR LASHES
 BAYONNE
 BEACHS - KING
 BENJAMIN BIOLY
 BERNARD FANNING
 BEYONCE
 BEYOND THE WIZARDS SLEEVE
 BIFFY CLYRO
 BIG SCARY
 BIG SMOKE
 BIG THIEF
 BIG UPS
 BILL BAIRD
 BITCHIN BAJAS & BONNIE PRINCE BILL
 BJAJK
 BLACK MERLIN
 BLACK MOUNTAIN
 BLOOD ORANGE
 BLOSSOMS
 BOB DYLAN
 BON IVER
 BONNIE RAITT
 BOTANY
 BRANDY CLARK
 BRIAN ENO
 BRIAN FALLON
 BRIGID MAE POWER
 BROODS
 BROTHERS OSBORNE

2017 MUSIC FESTIVALS

4/14, CA COACHELLA		4/28, LA JAZZFEST		5/3, FL SUNFEST		5/12, GA SHAKYKNEES		5/19, AL HANGOUT		5/26, MA BOSCALLING		5/26, WA SASQUATCH		5/26, CA BOTTLEROCK		6/2, OH BUNBURY		6/2, NY GOVBALL		6/8, TN BONNAROO		6/15, DE FIREFLY					
<input checked="" type="checkbox"/> @ LADY GAGA		<input checked="" type="checkbox"/> @ MEGHAN TRAINOR		<input checked="" type="checkbox"/> @ TORI KELLY		<input checked="" type="checkbox"/> @ RACHEL PLATTEN		<input checked="" type="checkbox"/> — THE XX		<input checked="" type="checkbox"/> — LCD SOUNDSYSTEM		<input checked="" type="checkbox"/> — THE HEAD AND THE HEART		<input checked="" type="checkbox"/> — THE HEAD AND THE HEART		<input checked="" type="checkbox"/> — THE HEAD AND THE HEART		<input checked="" type="checkbox"/> @ SILVERSUN PICKUPS		<input checked="" type="checkbox"/> @ Lorde		<input checked="" type="checkbox"/> — Lorde					
— LORDE		— LORDE		— ALABAMA SHAKES		— PATTI LABELLE		— THE STRUMBELLAS		— TINASHE		— THE NAKED AND FAMOUS		— WARPAINT		— WARPAINT		— FITZ & THE TANTRUMS		— BEACH HOUSE		— THE XX		— PHANTO			
— THE XX		— THE XX		— CORINNE BAILEY RAE		— IRMA THOMAS		— AMBROSIA		— LILLIE MAE		— WOLFGRAMM		— RUN RIVER NORTH		— ARIZONA		— SOLANGE		— THE HEAD AND THE HEART		— THE HEAD AND THE HEART		— THE NAK			
— THE HEAD AND THE HEART		— THE HEAD AND THE HEART		— RHIANNON GIDDENS		— THE LONE BELLOW		— LEILANI		— FAMILY AND FRIENDS		— TAYLA PARK		— PINEGROVE		— NORA EN PURE		— CHARLI XCX		— HAYLEY KIYOKO		— THE HEAD AND THE HEART		— BANKS			
— PHANTOGRAM		— PHANTOGRAM		— HERB ALPERT & LANI HALL		— OCEAN PARK STANDOFF		— ZIPPER CLUB		— MADAME MAYHEM		— CON BRIO		— CON BRIO		— AMYTHYST KIAH		— THE STRUMBELLAS		— JULY TALK		— LIBERTY DEEP DOWN		— TOVE LO			
— KEHLANI		— KEHLANI		— ROBINSON MURPHY		— MARGO PRICE		— ZIPPER CLUB		— MERESHA		— ROANOKE		— MARGOT GLASPY		— TKAY MAIDZA		— THE STRUMBELLAS		— ANDRA DAY		— MAVIS STAPLES		— PHANTOGRAM			
— LITTLE DRAGON		— LITTLE DRAGON		— CRYSTAL CASTLES		— JOHNNSWIM		— ZIPPER CLUB		— ROBINSON MURPHY		— GRAND BATON		— MARGOT GLASPY		— TKAY MAIDZA		— MITSKI		— WHITE LUNG		— ELEPHANT REVIVAL		— CRYSTAL CASTLES			
— BANKS		— BANKS		— CRYSTAL CASTLES		— LAKE STREET DIVE		— ZIPPER CLUB		— MS. LISA FISCHER & GRAND BATON		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— DEERHOOF		— JULY TALK		— SALES		— SNAILS			
— GROUPOVE		— GROUPOVE		— KIIARA		— BROODS		— ZIPPER CLUB		— MERESHA		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— ROANOKE		— LUCY DACUS		— CON BRIO		— THE STAVES		— THE STRUMBELLAS			
— TOVE LO		— TOVE LO		— HANNAH WANTS		— MAYA JANE COLES		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— TKAY MAIDZA		— LA SANTA CECILIA		— DELTAS		— MAGGIE			
— ROBINSON MURPHY		— ROBINSON MURPHY		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— MITSKI		— MUNA		— JESSICA HERNANDEZ & THE DELTAS		— SOFI TUK			
— CRYSTAL CASTLES		— CRYSTAL CASTLES		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— DEERHOOF		— ARIZONA		— PRINZE GEORGE		— MANDOLIN			
— KIIARA		— KIIARA		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— LUCY DACUS		— CON BRIO		— CON BRIO		— ORANGE			
— BROODS		— BROODS		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— TKAY MAIDZA		— LA SANTA CECILIA		— JESSICA HERNANDEZ & THE DELTAS		— NONAME			
— MAYA JANE COLES		— MAYA JANE COLES		— HANNAH WANTS		— HINDS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— TKAY MAIDZA		— RUN RIVER NORTH		— PRINZE GEORGE		— ANGELIQUE KIDJO			
— WARPAINT		— WARPAINT		— HANNAH WANTS		— HINDS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— HIRIE		— RUN RIVER NORTH		— CON BRIO		— DEAP VALLY			
— NAO		— NAO		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— BASKERY		— CON BRIO		— THE STAVES		— VANIC			
— OH WONDER		— OH WONDER		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— ARIZONA		— LA SANTA CECILIA		— CON BRIO		— JULY TALK			
— SOFI TUKKER		— SOFI TUKKER		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— PARADE OF LIGHTS		— THE STRUMBELLAS		— THE STRUMBELLAS		— TURKUAZ			
— ZIPPER CLUB		— ZIPPER CLUB		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— LITTLE HURRICANE		— THE STRUMBELLAS		— THE STRUMBELLAS		— LUCY DACUS			
— MITSKI		— MITSKI		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— MARTY O'REILLY & THE OLD SOUL ORCHESTRA		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS			
— TENNIS		— TENNIS		— HANNAH WANTS		— FLOORPLAN		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— JESSICA CHILDRESS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— FLOORPLAN		— FLOORPLAN		— HANNAH WANTS		— THE ATOMICS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— WILD		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— THE ATOMICS		— THE ATOMICS		— HANNAH WANTS		— HINDS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE REDWOODS REVUE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— HINDS		— HINDS		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— TROUBADOUR 77		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— THE LEMON TWIGS		— THE LEMON TWIGS		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— TRACKSUIT WEDDING		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— NORA EN PURE		— NORA EN PURE		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— NAPA YOUTH SYMPHONY		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— HANNAH WANTS		— HANNAH WANTS		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— ANNA LUNOE		— ANNA LUNOE		— HANNAH WANTS		— THE LEMON TWIGS		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— GRACE MITCHELL		— GRACE MITCHELL		— HANNAH WANTS		— MOSS KENA		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— MOSS KENA		— MOSS KENA		— HANNAH WANTS		— TACOCAT		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— TACOCAT		— TACOCAT		— HANNAH WANTS		— ALISON SWING		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— ALISON SWING		— ALISON SWING		— HANNAH WANTS		— SHURA		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— SHURA		— SHURA		— HANNAH WANTS		— HONEY DIJON		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— HONEY DIJON		— HONEY DIJON		— HANNAH WANTS		— JEN FERRER		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	
— JEN FERRER		— JEN FERRER		— HANNAH WANTS		— ELI & FUR		— ZIPPER CLUB		— ROANOKE		— ERICA CAMPBELL OF MARY MARY		— ZIPPER CLUB		— AMYTHYST KIAH		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE STRUMBELLAS	

ARTICLE LINK

WORDS: ROB MITCHUM

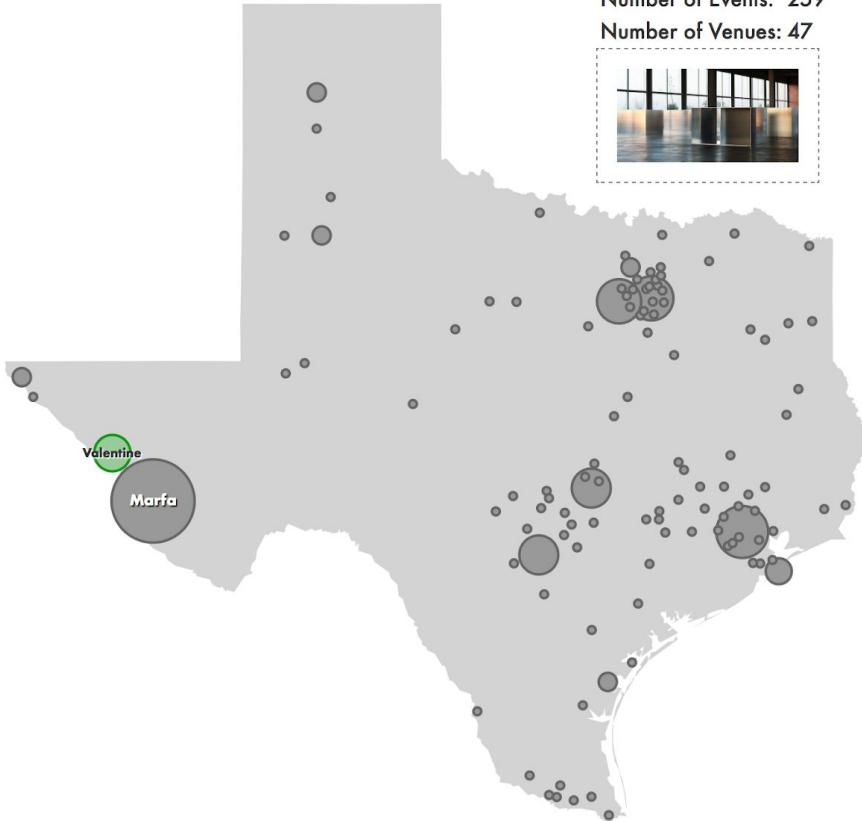
VIZ: DIEGO GARCIA-OLANO

BAND CENTRIC VIZ



Glasstire: Marfa

ABOUT



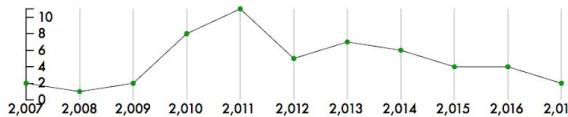
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 ALL

Showing ALL Results

venue

Chinati Foundation

#events
52



[http://glasstire.com/venues/chinati-foundation](#)

- September 2017 Chinati Weekend
- May 2017 L.A. Dance Project at The Chinati Foundation
- September 2016 Chinati Weekend 2016
- July 2016 Robert Irwin Opening Event
- April 2016 Jen Rosenblit: Clap Hands
- January 2016 Sunset at Chinati
- September 2015 Chinati Weekend 2015
- September 2015 Charlotte Posenenske and Peter Roehr
- August 2015 Sunrise at Chinati
- July 2015 Andrew May: Unset
- November 2014 Sunset at Chinati
- October 2014 Chinati Weekend 2014
- August 2014 Neighbor Notes: Modern Chamber Music by Mexican Composers
- May 2014 Zoe Leonard: 100 North Nevill Street
- April 2014 Marfa Community Day
- March 2014 Chinati Presents: The xx
- October 2013 Albrecht Dürer: Five Woodcuts and Five Etchings
- October 2013 Chinati Weekend - Donald Judd: Prints
- August 2013 Jared Sprecher at the Locker Plant



SELECT A CITY, VENUE, OR ARTIST TO BEGIN.

WHERE
ALL CITIESVENUES [676]
ALL VENUESHOUSTON
DALLAS
AUSTIN
SAN ANTONIO
FORT WORTH
MARFA
EL PASO
GALVESTON
DENTON
LUBBOCKABILENE
ADDISON
ALBANY
ALLEN
ALVIN
AMARILLO
ARLINGTON
ARP
BAYTOWN
BEAUMONT
BEEVILLE
BELLAIRE
BLANCO
BOERNE
BRECKENRIDGE
BRENHAM
BROWNSVILLE
CANYON
CASTROVILLE
CEDAR HILL
CEDAR PARK
CLEVELAND,
COLLEGE STATION
COLUMBUS
COMMERCE
CONROE
CORPUS CHRISTI
CORSICANA
CYPRESS
DENISON
DUNCANVILLE
EDINBURG
FARMERS BRANCH
FAYETTEVILLE
FLORENCE
FREDERICKSBURG
FRISCO
GARLAND
GEORGETOWN
GRANBURY
GRAPENECK

NAME	EV▲	AR CITY
MUSEUM OF FINE ARTS, HOUSTON - MFAH	235	320 HOUSTON
LAWNDALE ART CENTER	222	346 HOUSTON
500X GALLERY	182	270 DALLAS
CONDUIT GALLERY	169	179 DALLAS
ART LEAGUE HOUSTON	161	249 HOUSTON
MENIL COLLECTION	157	232 HOUSTON
CO-LAB PROJECTS	152	254 AUSTIN
MCKINNEY AVENUE CONTEMPORARY (THE MAC)	151	294 DALLAS
BLUE STAR CONTEMPORARY ART MUSEUM	150	361 SAN ANTONIO
MODERN ART MUSEUM OF FORT WORTH	146	195 FORT WORTH
BOX 13 ARTSPACE	146	275 HOUSTON
GALVESTON ARTS CENTER	142	196 GALVESTON
CONTEMPORARY ARTS MUSEUM HOUSTON - CAMH	135	276 HOUSTON
MCNAY ART MUSEUM	134	220 SAN ANTONIO
CENTRALTRAK	134	254 DALLAS
ARTPACE	125	194 SAN ANTONIO
DALLAS MUSEUM OF ART	120	180 DALLAS
HOUSTON CENTER FOR CONTEMPORARY CRAFT	117	178 HOUSTON
BLANTON MUSEUM OF ART	115	235 AUSTIN
UT VISUAL ARTS CENTER (VAC)	114	207 AUSTIN
WALLY WORKMAN GALLERY	110	70 AUSTIN
HOUSTON CENTER FOR PHOTOGRAPHY	106	192 HOUSTON
CENTER FOR CONTEMPORARY ARTS - ABILENE	105	128 ABILENE
REDBUD GALLERY	104	128 HOUSTON
BLAFFER ART MUSEUM	104	212 HOUSTON
HIRAM BUTLER GALLERY	103	92 HOUSTON
HOOKS-EPSTEIN GALLERIES	102	81 HOUSTON
EL PASO MUSEUM OF ART	102	190 EL PASO
ART PALACE	101	92 HOUSTON
PHOTOGRAPHS DO NOT BEND GALLERY	100	137 DALLAS
MOODY GALLERY	100	65 HOUSTON
G GALLERY	100	199 HOUSTON
INMAN GALLERY	00	45 HOUSTON

ARTISTS [5991]
ALL ARTISTS

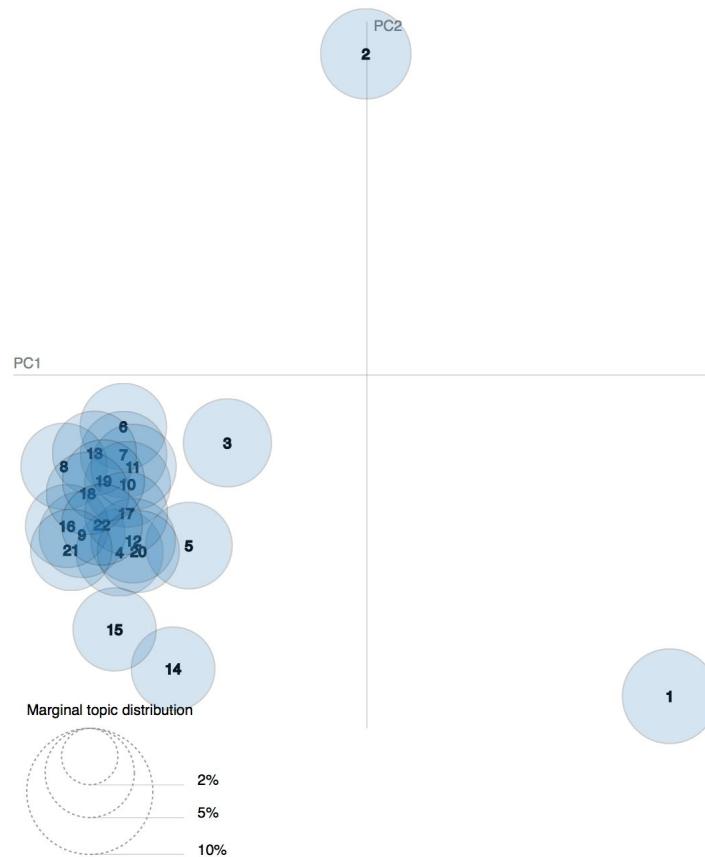
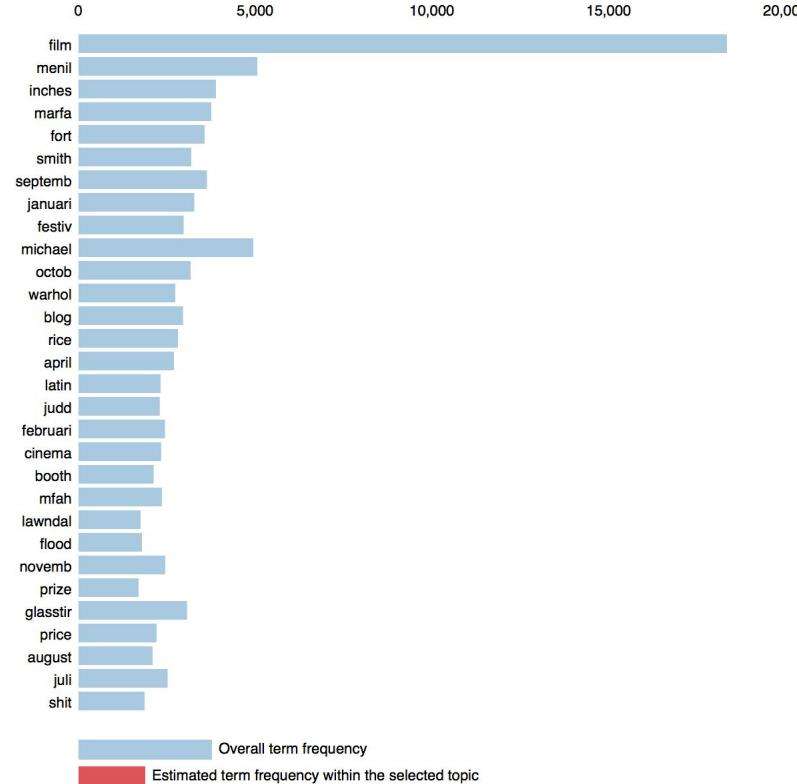
NAME	EV▲
EMILY SLOAN	45
ANDY WARHOL	42
RYDER RICHARDS	38
PATRICK RENNER	38
BILL DAVENPORT	38
BENITO HUERTA	38
MARGARET MEEHAN	32
EMILY PEACOCK	32
CODY LEDVINA	32
ORNA FEINSTEIN	31
LANCE LETSCHER	31
AUTUMN KNIGHT	31
ADELA ANDEA	31
SHARON KOPRIVA	30
NOAH SIMBLIST	30
NATHAN GREEN	30
STEPHEN LAPTHISOPHON	29
BILLY HASSELL	29
AARON PARAZETTE	28
ELAINE BRADFORD	27
ARIANE ROESCH	27
ROBERT PRUITT	26
KEN LITTLE	26
JEFF GIBBONS	26
TOM ORR	25
TOBY KAMPS	25
LUDWIG SCHWARZ	25
KATIE MARATTA	25
JULES BUCK-JONES	25
HEYD FONTENOT	25
RENE CRUZ	24
JUSTIN BOYD	24
JOHN POMARA	24
JOEY FAUERO	24
VINCENT FALSETTA	23
RUSTY SCRUBY	23
ROBERT RAUSCHENBERG	23
RAUL GONZALEZ	23
MARI OMORI	23
JULIE SPEED	23

LANCE LETSCHER [VISIT ARTIST'S GLASSTIRE PAGE](#)

SHAREABLE LINK TO THIS PAGE

DATE ▲	EVENT	VENUE	CITY
SEP 2017	LANCE LETSCHER: COLLAGE AND DRAWING	THE LOUISE HOPKINS UNDERWOOD CENTER FOR THE ARTS- LHUCA	LUBBOCK
FEB 2017	LANCE LETSCHER: NEW WORK FROM THE LATE MIDDLE AGES	STEPHEN L. CLARK GALLERY	AUSTIN
OCT 2015	LANCE LETSCHER: BE MY LIFE'S COMPANION	CONDUIT GALLERY	DALLAS
SEP 2015	LANCE LETSCHER: NEW WORK	STEPHEN L. CLARK GALLERY	AUSTIN
MAR 2015	LANCE LETSCHER: PARALLEL UNIVERSE	MCMURTREY GALLERY	HOUSTON
JUN 2014	LONGITUDE/LATITUDE: PART I	CONDUIT GALLERY	DALLAS
OCT 2013	LANCE LETSCHER: PREGUNTA NUMERO UNO	CONDUIT GALLERY	DALLAS
JAN 2013	MAJORITY RULES: A DECADE OF CONTEMPORARY ART ACQUISITIONS	MCNAY ART MUSEUM	SAN ANTONIO
OCT 2012	LANCE LETSCHER: WOODPECKER MONOLOGUE	MCMURTREY GALLERY	HOUSTON
DEC 2011	LANCE LETSCHER: WORK FROM THE MIDDLE AGES	D BERMAN GALLERY	WIMBERLEY
OCT 2011	LANCE LETSCHER: THE NEEDLE IN THE HAY	CONDUIT GALLERY	DALLAS
MAY 2011	COLLAGE	KINZELMAN ART CONSULTING	HOUSTON
APR 2011	TED LARSEN, LANCE LETSCHER, AND RUSTY SCRUBY: PIECE BY PIECE	MCMURTREY GALLERY	HOUSTON
APR 2011	BEEVILLE ART MUSEUM: CELEBRATING 10 YEARS OF ART AND...	BEEVILLE ART MUSEUM	BEEVILLE
MAR 2011	GRAND RELOCATION CELEBRATION	D BERMAN GALLERY	WIMBERLEY
MAR 2011	THE GUN & KNIFE SHOW	CENTRALTRAK	DALLAS
JAN 2011	10TH ANNIVERSARY GROUP SHOW	D BERMAN GALLERY	WIMBERLEY
NOV 2010	LANCE LETSCHER: RECENT WORK FROM THE MIDDLE AGES	MCMURTREY GALLERY	HOUSTON
SEP 2010	88, ORGANIZED BY ANDY COOLQUIT	DOMY BOOKS AUSTIN	AUSTIN
MAY 2010	LANCE LETSCHER: THE PERFECT MACHINE	D BERMAN GALLERY	WIMBERLEY
JAN 2010		CONDUIT GALLERY	DALLAS
DEC 2009	BACK IN RED	MCMURTREY GALLERY	HOUSTON
AUG 2009	ARTHOUSTON 2009: JANE EIFLER & JON VON LETSCHER	MCMURTREY GALLERY	HOUSTON
JUN 2009	LETSCHER, LAPTHISOPHON, AND OTTINGER	CONDUIT GALLERY	DALLAS
JAN 2009	WHAT'S MY LINE?	MCMURTREY GALLERY	HOUSTON
NOV 2008	COLLAGE: MORE AND LESS	WILLIAMS TOWER GALLERY	HOUSTON
NOV 2008	LANCE LETSCHER: MACHINES, BUILDINGS, AND BOOKS	MCMURTREY GALLERY	HOUSTON
JUN 2008	LANCE LETSCHER: INDUSTRY AND DESIGN	D BERMAN GALLERY	WIMBERLEY
MAY 2007	LANCE LETSCHER	CONDUIT GALLERY	DALLAS
APR 2007	WORD PLAY	NANCY WILSON SCANLAN GALLERY- ST. STEPHEN'S EPISCOPAL SCHOOL	AUSTIN
MAR 2007	BOOK WORKS	GALVESTON ARTS CENTER	GALVESTON

Intertopic Distance Map (via multidimensional scaling)

Top-30 Most Salient Terms¹

1. saliency(term w) = frequency(w) * [sum_t p(t | w) * log(p(t | w)/p(t))] for topics t; see Chuang et. al (2012)
 2. relevance(term w | topic t) = $\lambda * p(w | t) + (1 - \lambda) * p(w | t)/p(w)$; see Sievert & Shirley (2014)

Top Associated18 articles for November 2009
same sentence**Top Associated**

same sentence/near

Top Associated

same sentence/near/article

Top Associatedprior II next II
same article only (not near)**Top Associated**

combined metric

Summary

comparison

2009-11-13 - statesman.com - Straus catches capitol watchers by surprise [link](#)
 2009-11-13 - statesman.com - Legislator vows daily motion to remove house speak [link](#)
 2009-11-13 - statesman.com - Lawmakers seek to help the disabled get state cont [link](#)
 2009-11-13 - statesman.com - House battles cockfighting [1 link](#)
 2009-11-13 - statesman.com - Transit board shake up closer to final passage [link](#)
 2009-11-13 - statesman.com - Rodriguez finds more success in fourth term [1 link](#)
 2009-11-13 - statesman.com - Perry vetoes pre k expansion college health [1 link](#)
 2009-11-13 - statesman.com - Special session puts kink in lawmakers plans [link](#)
 2009-11-13 - statesman.com - How central texas lawmakers spent campaign donation [link](#)
 2009-11-13 - statesman.com - Lawmakers comptroller disagree about worker paymen [link](#)
 2009-11-13 - statesman.com - Lawmaker gets zinged for not having web site [link](#)
 2009-11-13 - statesman.com - State board vows to save christmas chavez [link](#)
 2009-11-05 - chron.com - Ex teacher still unable to be in court for sex 206073.php [link](#)
 2009-11-05 - chron.com - Metro Digest 206277.php [link](#)
 2009-11-13 - statesman.com - Capitol roundup [link](#)
 2009-11-13 - statesman.com - A food stamp fingerprint feed [link](#)
 2009-11-13 - statesman.com - Democrat wins state house seat in williamson [1 link](#)
 2009-11-13 - statesman.com - Gop businessman launches bid to unseat democrat bo [link](#)

**Politicians:**

Dawnya Dukes - 17
 Elliott Naishat - 16
 Mark Strama - 14
 Tom Craddick - 14
 Lon Burnam - 12
 Donna Howard - 12
 Kirk Watson - 12
 Craig Eiland - 9
 Jessica Farrar - 9
 Lois Kolkhorst - 9
 Patrick Rose - 8
 Valinda Bolton - 8
 Senfronia Thompson - 8
 Garnet Coleman - 8
 David Simpson - 8
 Mark Homer - 7
 Joe Deshotel - 7
 Abel Herrero - 6
 Helen Giddings - 6
 Ruth Jones McClendon - 6
 Rene Oliveira - 6
 Pete Gallego - 6
 Scott Hochberg - 6
 Ruan Guillen - 6

Organizations:

Tesla - 8
 Milford Superior Court - 7
 Farm to Table Caucus - 5
 Calendars Committee - 3
 Edgewood - 3
 Mexican American Legislative Caucus - 3
 University of Texas - 3
 Houston - 3
 Edwards Aquifer Authority District - 2
 San Antonio City Council - 2
 Wilke-Rodriguez - 2
 Democratic House - 2
 HPD - 2
 CNN - 2
 Workers Defense Project - 2
 Mando - 2
 University of Connecticut - 2
 TCEQ - 2
 Latino - 2
 Talons Challenge - 1
 Toyota - 1
 Texas House Farm-to-Table Caucus - 1

Persons:

Ciro Rodriguez - 6
 Hugh Keefe - 6
 Richard Raymond - 5
 Lulu Flores - 4
 Gene Meyer - 4
 Democrats Eddie Lucio III - 4
 Terri Hodge - 4
 Lee Leffingwell - 4
 Paul Moreno - 4
 Terry Wilke - 3
 James Kroner - 3
 Nenad Kostic - 3
 David Chu - 3
 Kevin Russo - 3
 Steven Slowik - 3
 Doe " Anderson - 3
 Rick Noriega - 3
 Thomas Bavedas - 3
 Joseph Guerra - 3
 Robert Dulin - 3
 Rick Perry - 3
 George Rodriguez - 2
 Marilyn Jackson - 2
 Laura Stromberg - 2

Locations:

AUSTIN - 52
 East Austin - 10
 San Antonio - 8
 Milford - 6
 Texas House - 6
 Springdale Farm - 4
 Nautica - 3
 Central Texas - 3
 Dallas - 3
 Fort Worth; - 2
 Wichita - 2
 Chicon Street - 2
 Fort - 2
 San - 2
 Newtown - 2
 Dripping Springs - 2
 El Paso - 2
 Vail Pass - 1
 Beaver Creek - 1
 Austin state
 Representatives - 1
 Austin-area state
 Representatives - 1
 Chavez - 1

Bills:

House Bill 3301 - 2
 House Bill 506 - 2
 House Bill 3033 - 1
 Senate Bill 1715 - 1
 House Bill 1677. - 1
 House Bill 213 - 1
 House Bill 970 - 1
 House Bill 296 - 1
 House Bill 970 - 1
 House Bill 294 - 1
 House Bill 296 - 1
 House Bill 296 - 1
 House Bill 376 - 1
 House Bill 1
 House Bill 3810 - 1
 House Bill 2 - 1
 House Bill 2 - 1
 House Bill 1053 - 1
 Senate Bill 1

Misc:

Travis County - 27
 Austin Democrat - 9
 urban - 8
 Austin
 Democratic - 4
 American-owned
 House Bill - 2
 Mexican-
 HB 213 - 1
 American - 2
 House Bill
 Dulin's - 2
 Election Day - 2
 House Bill
 Moncrease - 2
 A House - 1
 Hispanics - 1
 Democrats
 SB 376 - 1
 Dawnya Dukes - 1
 Mexican
 American - 1
 State-level - 1
 Libertarian
 Arthur - 1



TX 2015

SEARCH RESULTS:

FOR "EDDIE RODRIGUEZ" FOUND:

362 ARTICLES FROM
6 DIFFERENT SOURCES AND
6226 ENTITIES DISCOVERED[LOCATION: 882, PERSON: 2632, MISC: 411, ORGANIZATION: 1945, POLITICIAN:
269, BILL: 87]

OF WHICH 57 ARE CURRENTLY SHOWING

FILTER BY DATE:FROM TO APPLY DATE FILTER**FILTER BY SOURCE:**

AUSTIN AUSTIN STATESMAN (133)
 DALLAS MORNING NEWS (22)
 HOUSTON CHRONICLE (136)
 NEW YORK TIMES (4)
 TEXAS OBSERVER (6)
 TEXAS TRIBUNE (60)

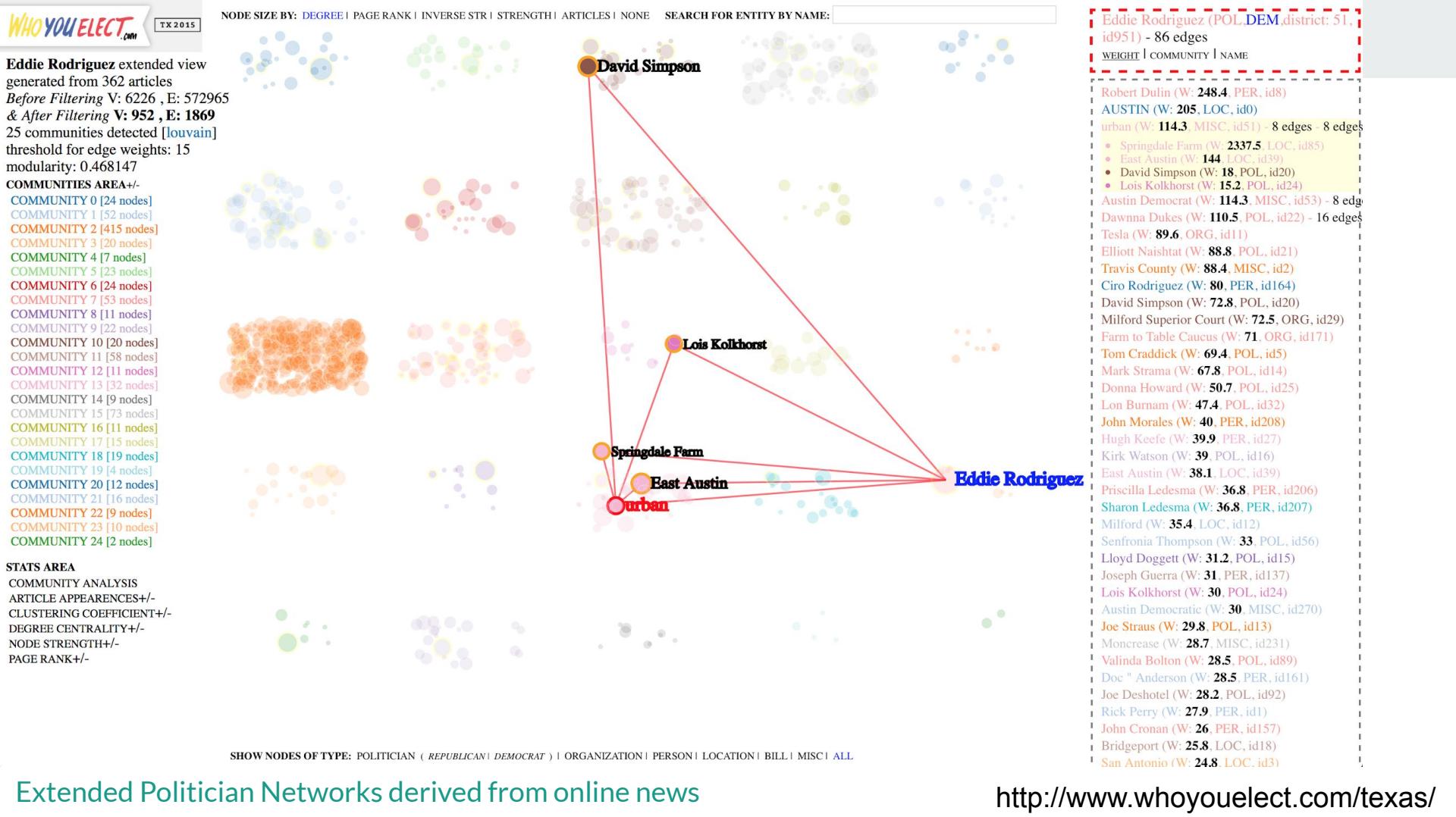
APPLY NEW SOURCE FILTER

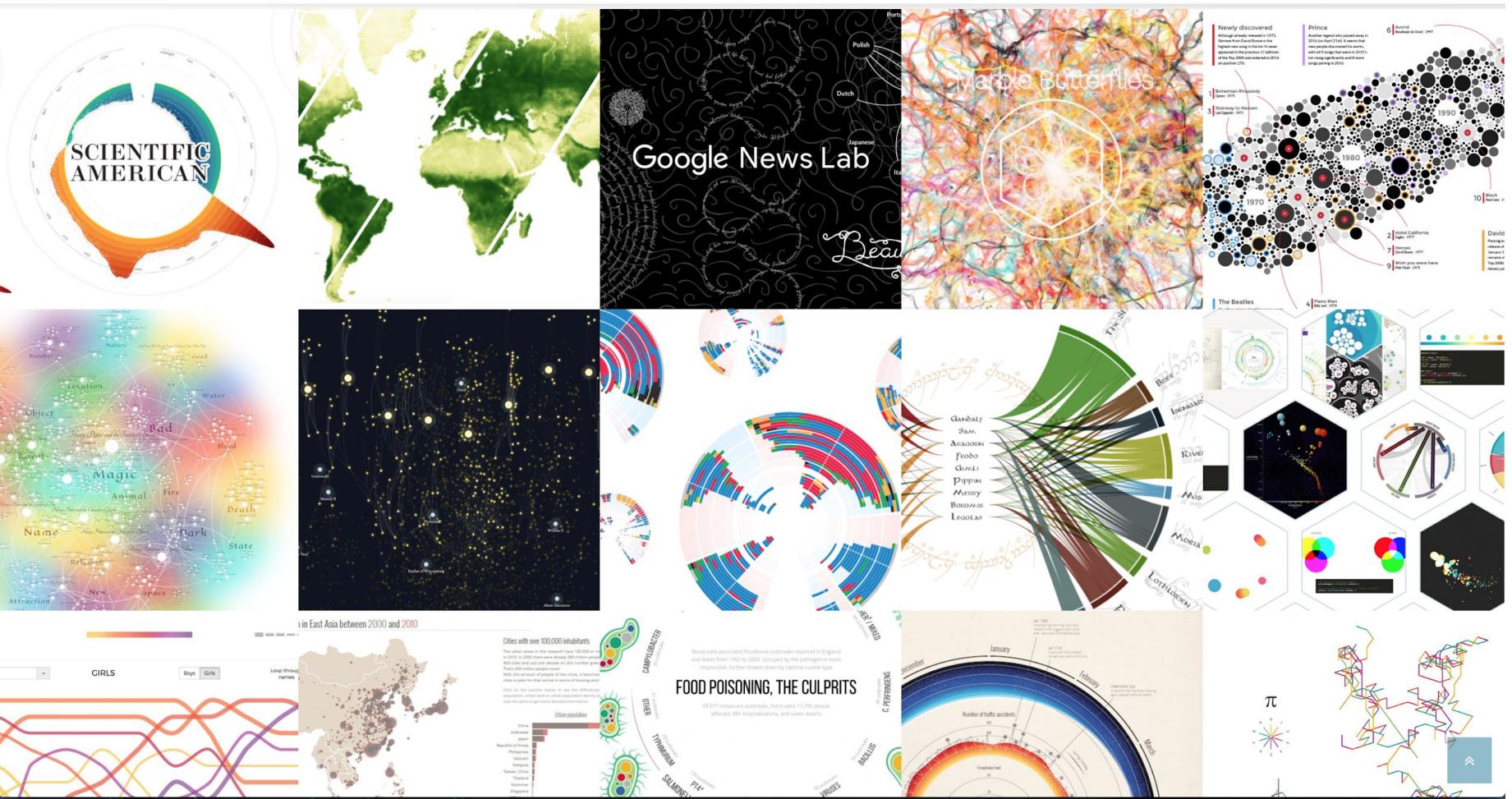
Showing nodes with more than 20 associations and hiding full details.

Show More Nodes Show Full Details

ABOUT THE PROJECT | ABOUT US | SHOW STATS | ARTICLE URLs

http://www.whoyouelect.com/texas/





D3 + a lot of design = data journalism

<https://www.visualcinnamon.com>

Other tools and conferences

Advanced visualization with Python tools

web-based Python tools supported by [Anaconda](#), including:

[Bokeh](#) (browser based viz tool)

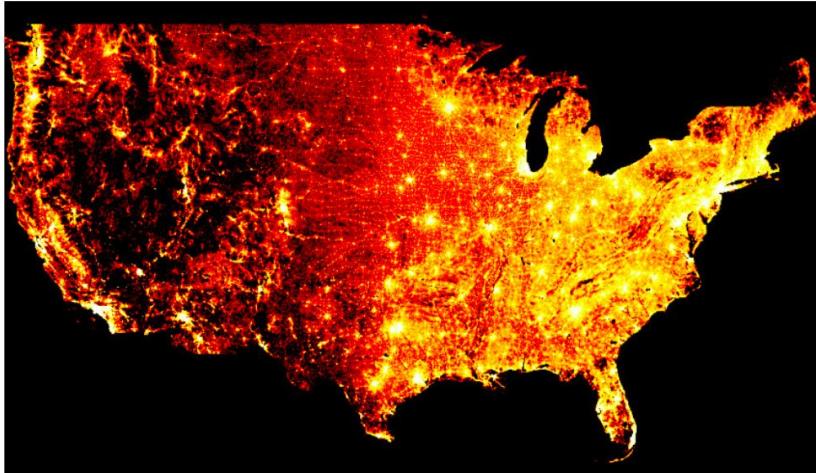
[HoloViews](#) (wrapper to Bokeh for simplicity) and

[Datashader](#) (emphasis on big data)

HoloViews+Bokeh tutorial from JupyterCon [link](#)

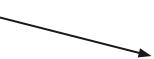


With code like the above, you can plot 300 million points of data (one per person in the USA) from the 2010 census without any parameter tuning:

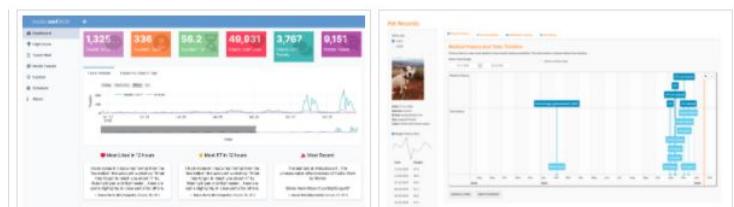


R Shiny apps

[Link](#): Similar to Bokeh in that it renders to web browsers.



None of the above use native Web formats (pros / cons)



A Dashboard for Conference Tweets

An App to Visualize and Share My Dogs' Medical History

Conferences / People:

- IEEE VIS conf [2020 link](#)
- Open Vis [2018 link](#)
- Visualized [videos](#) link
- D3 expert: <https://sxywu.com/>



Living in the Lego World



A lyrical analysis of '69 Love Songs' by Magnetic Fields

Recap

D3 is not for quick EDA! For EDA, use summary stats, matplotlib, PCA /T-SNE, etc.



D3 is for web facing, interactivity and complete customization. Learning curve.

Bokeh gets you 80% of what you need right out of the box,
But the remaining 20% is painful, if doable.

R-shiny apps are similar to Bokeh with a little more functionality and community
though its in the R eco-system and is tricky to host.

Datashader is better for “big data” (millions of points at once)

The trick with visualizing big data is aggregation and only loading what you need
when you need it, and pre-caching expensive loads (websockets/queues for D3)