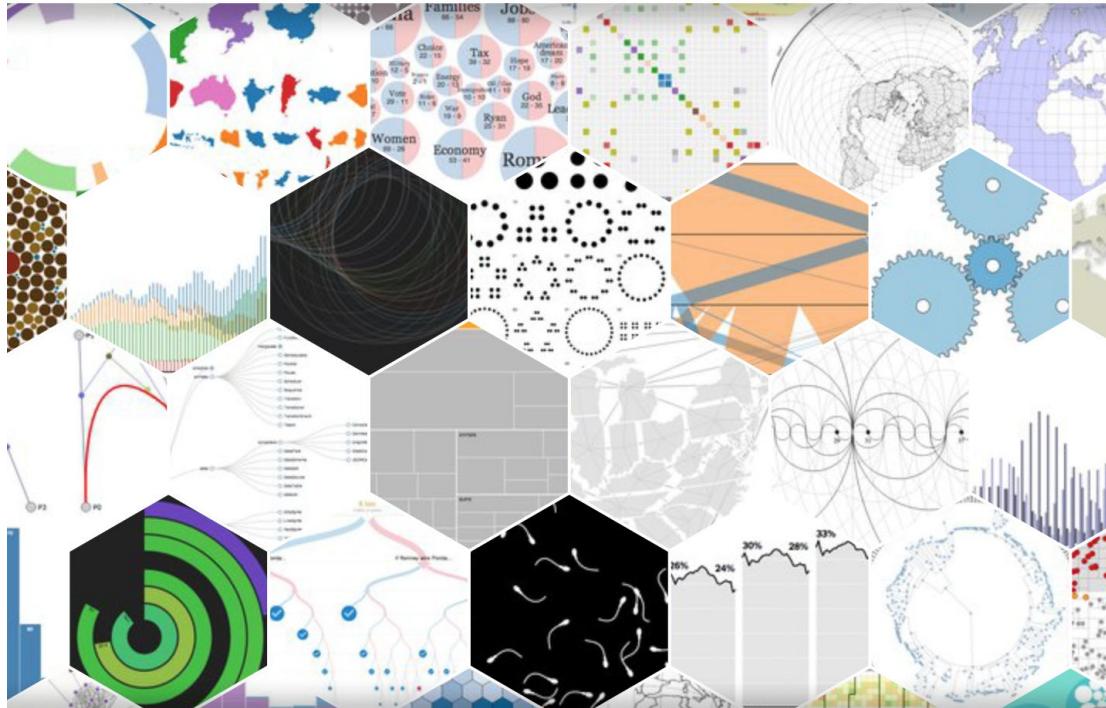


Modern Visualization



Data Driven Documents (D3.js)



<https://d3js.org>

Data Driven Documents (D3.js)



Open source Javascript library for manipulating documents
(similar in nature to jQuery)

- *emphasis on **web standards** (nonproprietary framework)
- *powerful visualization components
- *data-driven approach to **DOM manipulation**.

Data Driven Documents (D3.js)



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)

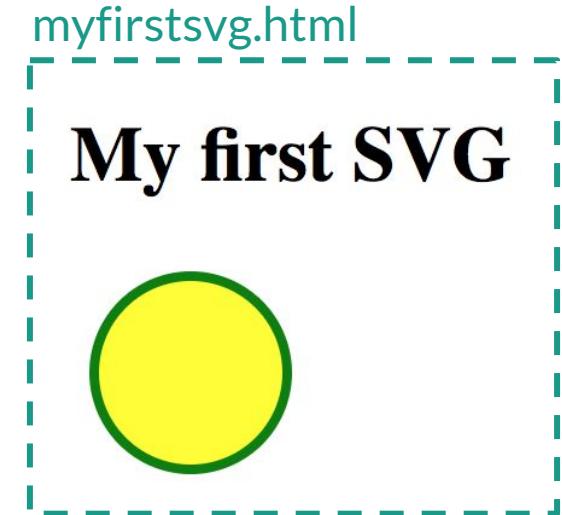
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</html>
```



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)

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Australia,Oceania,22319.07,40718.78167,2.21367,2.48590317
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Estonia,Europe,1335.347,22403.02459,1.44122,7.63563272
Finland,Europe,5366.482,37577.71225,3.84137,2.85477157
```

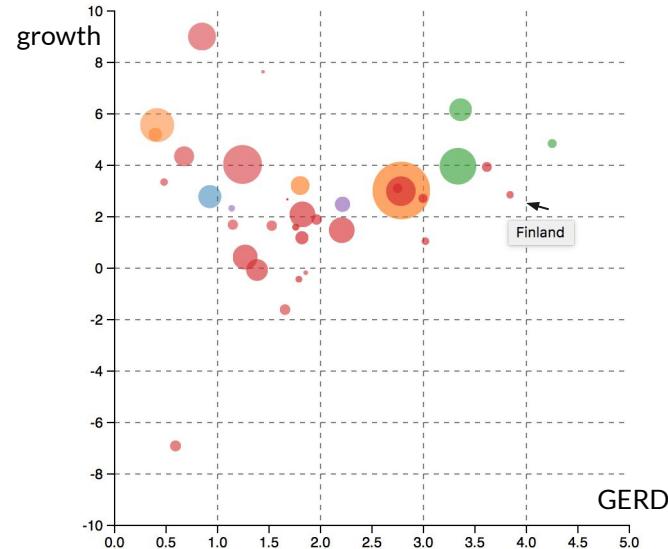
```
d3.csv("data.csv",function(csv) {
  csv.sort(function(a,b) {return b.population-a.population;}); //
  svg.selectAll("circle").data(csv).enter()
    .append("circle")
    .attr("cx",function(d) {return x(+d.GERD);})
    .attr("cy",function(d) {return y(+d.growth);})
    .attr("r",function(d) {return 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:

```
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
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```

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d3.csv("data.csv",function(csv) {
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    .style("opacity",function(d) {return o(+d.GDPcap);})
    .append("title")
    .text(function(d) {return d.country;})
})
```



INSPECT SOURCE -> <http://www.jeromecukier.net/stuff/data%20example/data-example2.html>

Data Driven Documents (D3.js)

Hello world (en vivo)

STEP 1. Download the visualization via the commandline or browser

```
wget http://www.jeromecukier.net/stuff/data%20example/data-example2.html
```

or

```
curl -O http://www.jeromecukier.net/stuff/data%20example/data-example2.htm
```

OR (in browser “Save Page As”)

Data Driven Documents (D3.js)

Hello world (en vivo)

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or

```
curl -O http://www.jeromecukier.net/stuff/data%20example/data-example2.htm
```

OR (in browser “Save Page As”)

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

```
wget http://www.jeromecukier.net/stuff/data%20example/data.csv
```

Data Driven Documents (D3.js)

Hello world (en vivo)

STEP 1. Download the visualization via the commandline or browser

```
wget http://www.jeromecukier.net/stuff/data%20example/data-example2.html
```

or

```
curl -O http://www.jeromecukier.net/stuff/data%20example/data-example2.htm
```

OR (in browser “Save Page As”)

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

```
wget http://www.jeromecukier.net/stuff/data%20example/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>

D3 in Jupyter Notebooks: <http://www.jitsejan.nl/using-d3-in-jupyter-notebook.html>

Build 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 !

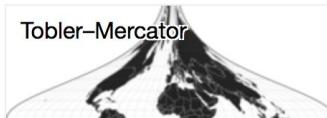
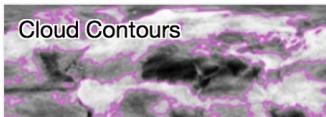
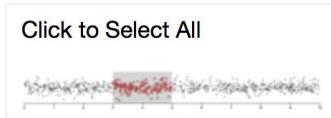
*for local development, you may need a web server (see www.mamp.info for a simple one)

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...

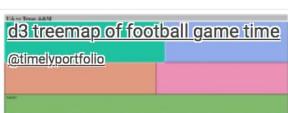
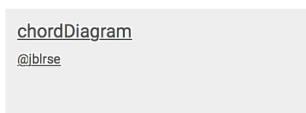
ts Reported by Tex...

1.0

with d3 sunburst f...



Showing 83/83 of the most relevant blocks.



NHTSA Time Series

Counties of Chihuahua (south of Texas)
@octaviomtz

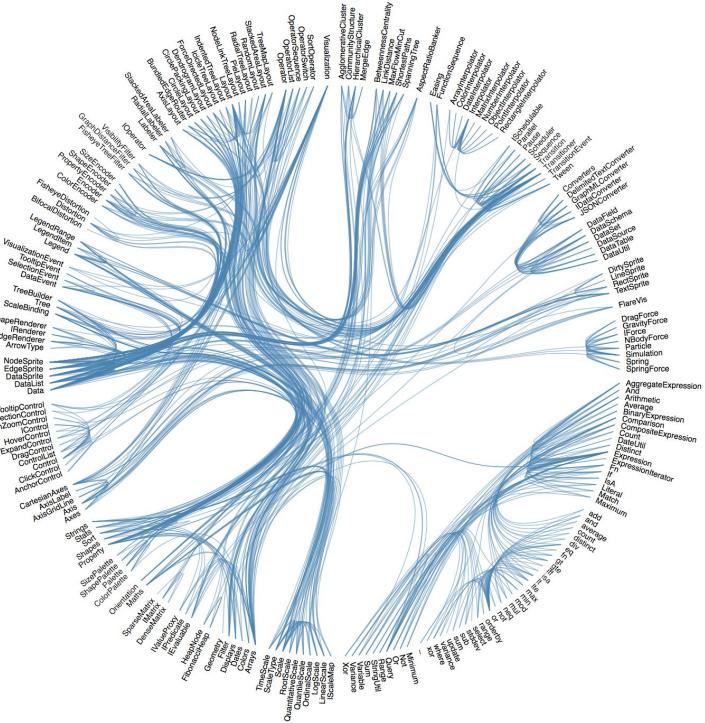
NHTSA Time Series Storyboard...

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");

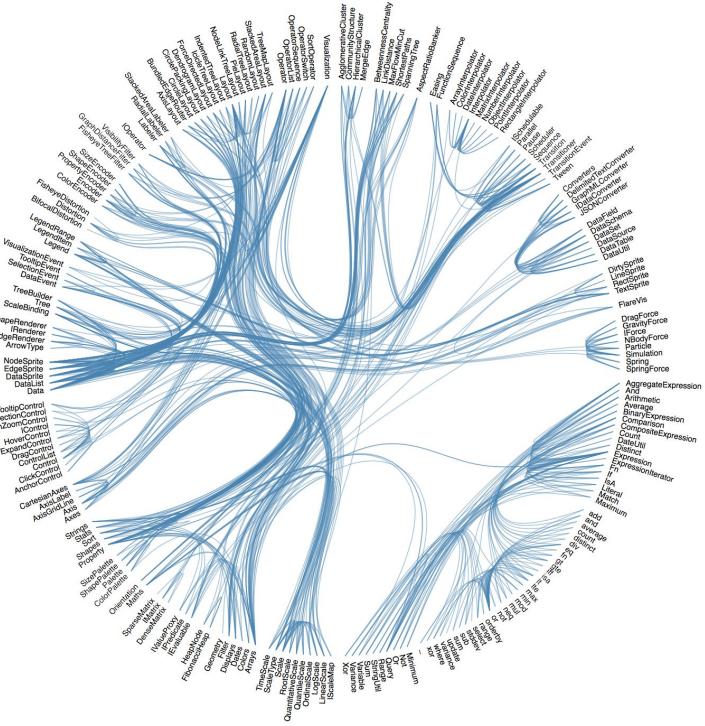
d3.json("flare.json", function(error, classes) {
  if (error) throw error;

  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;
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  stroke: steelblue;
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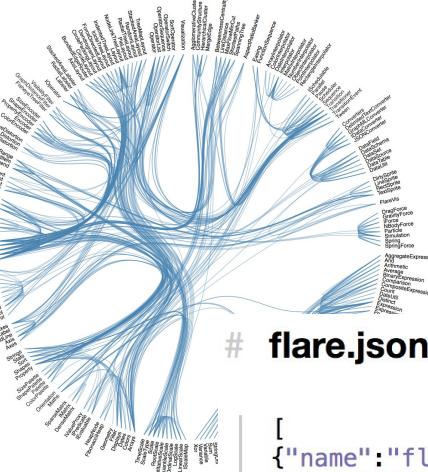
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```

your data

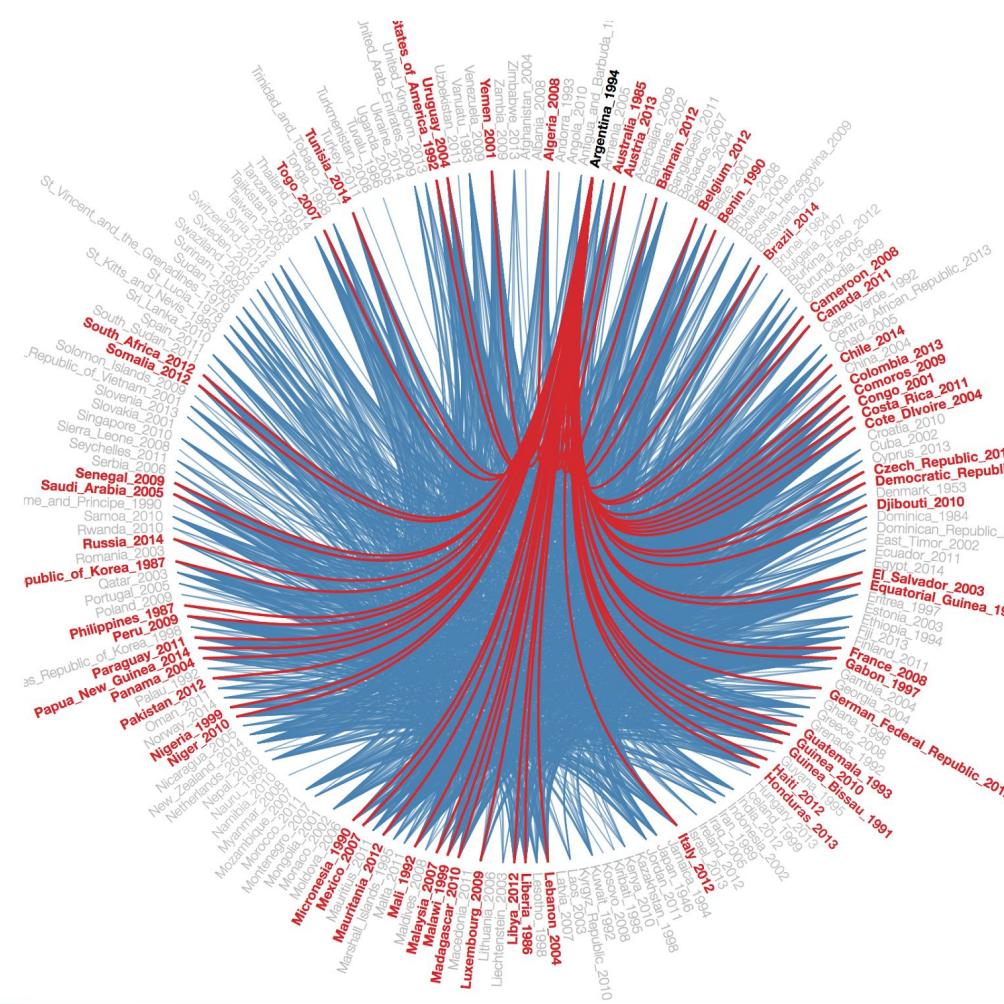
Data Driven Documents (D3.js)

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","1  
 {"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
```

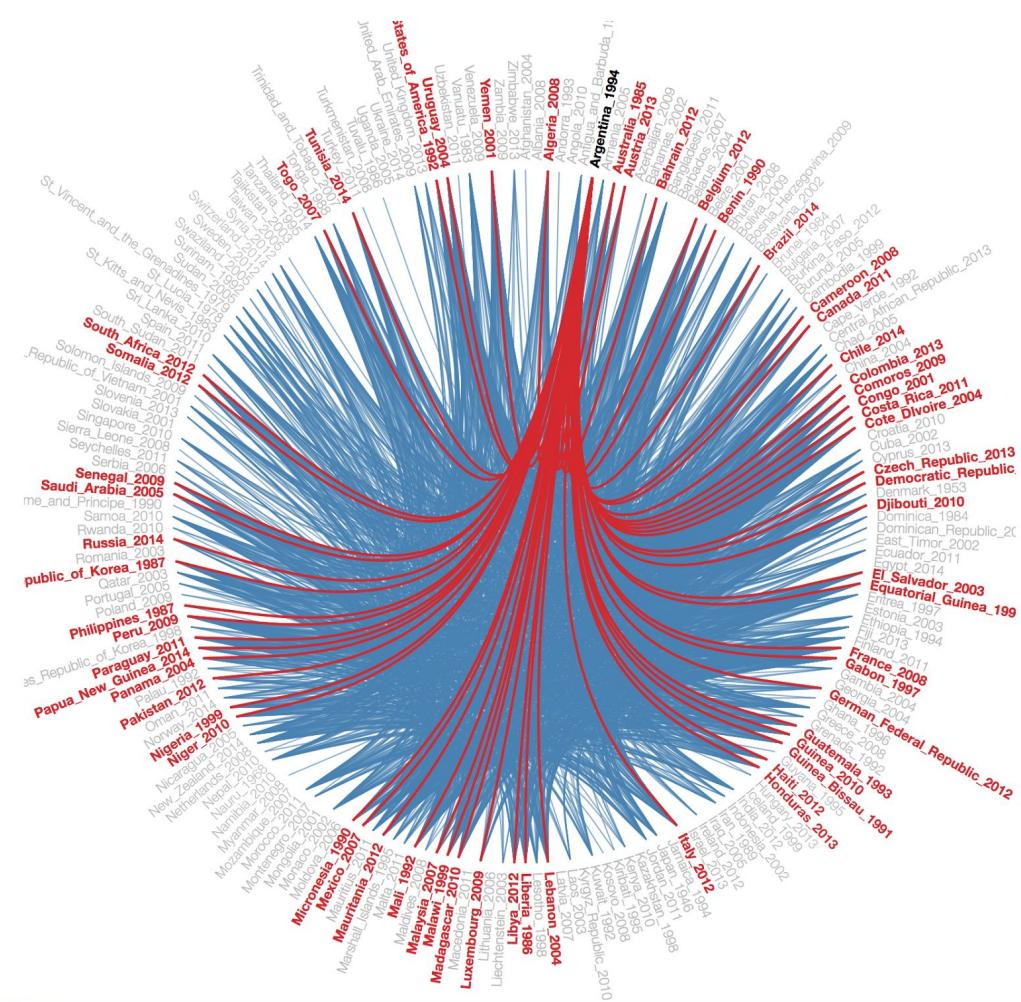


A text analysis of the constitutions of individual countries.
[code at github](#)

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_2008	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_D'Ivoire_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:

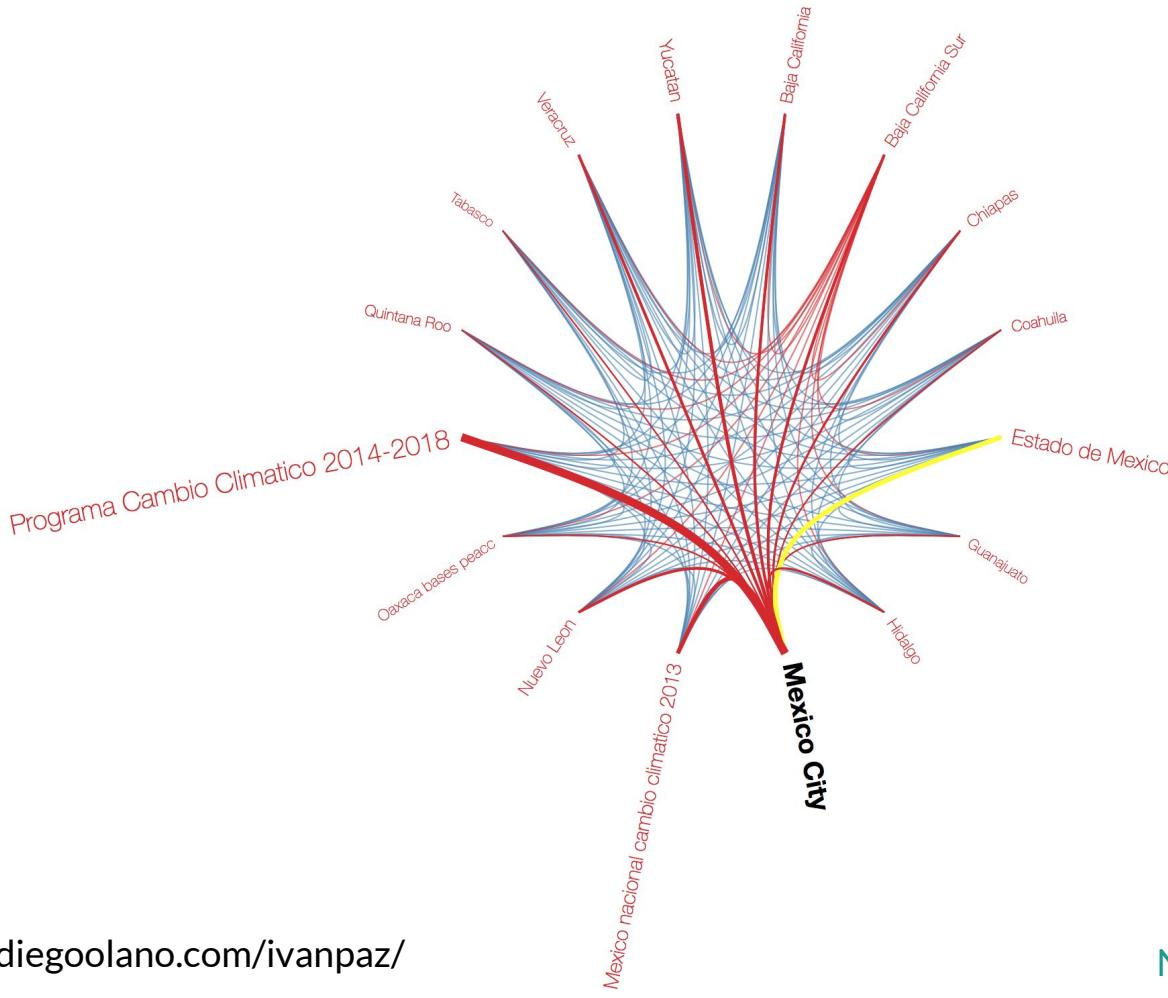
Size Matters

Color Matters

What's the story?

See Tuft

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

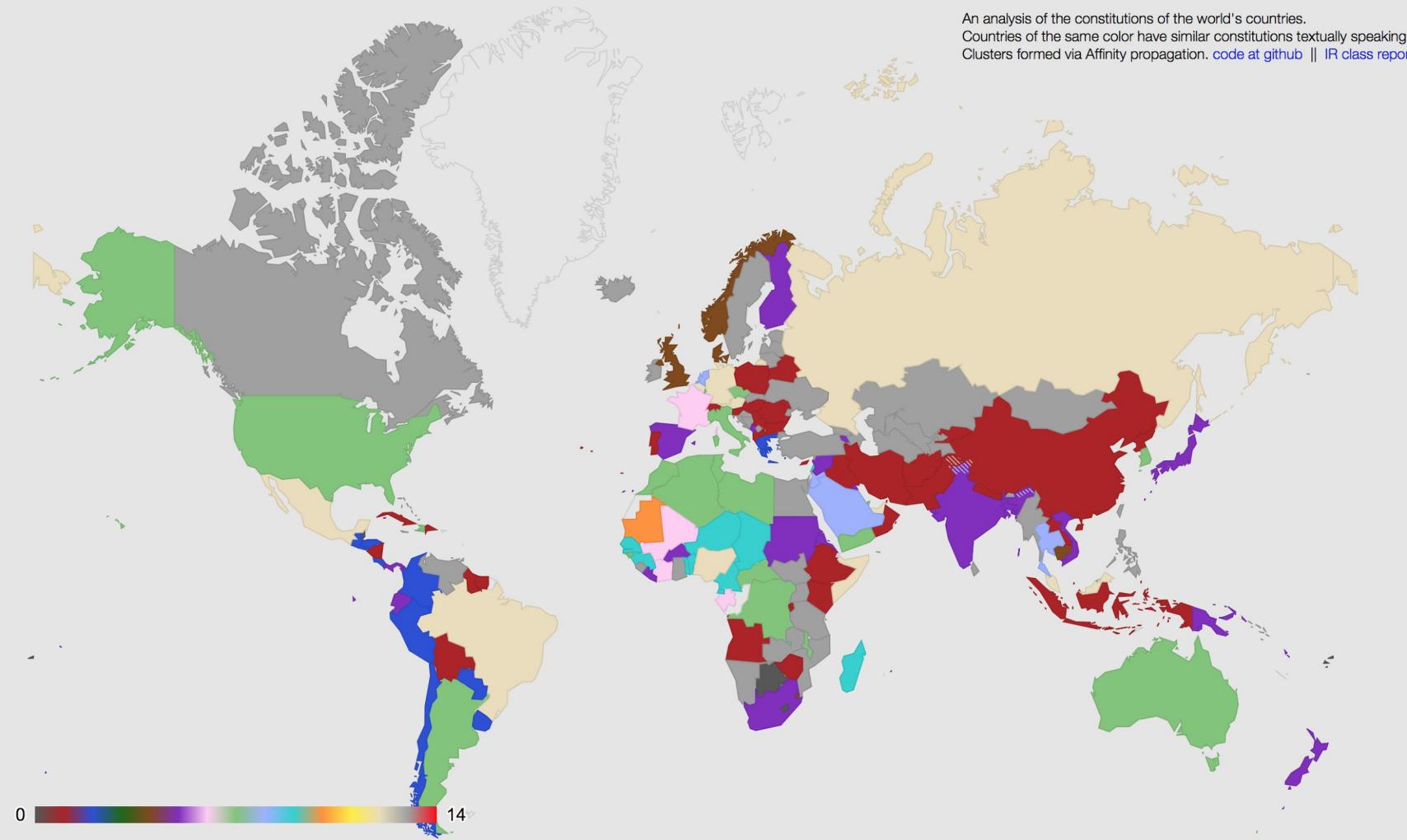


Mexico City

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](#)



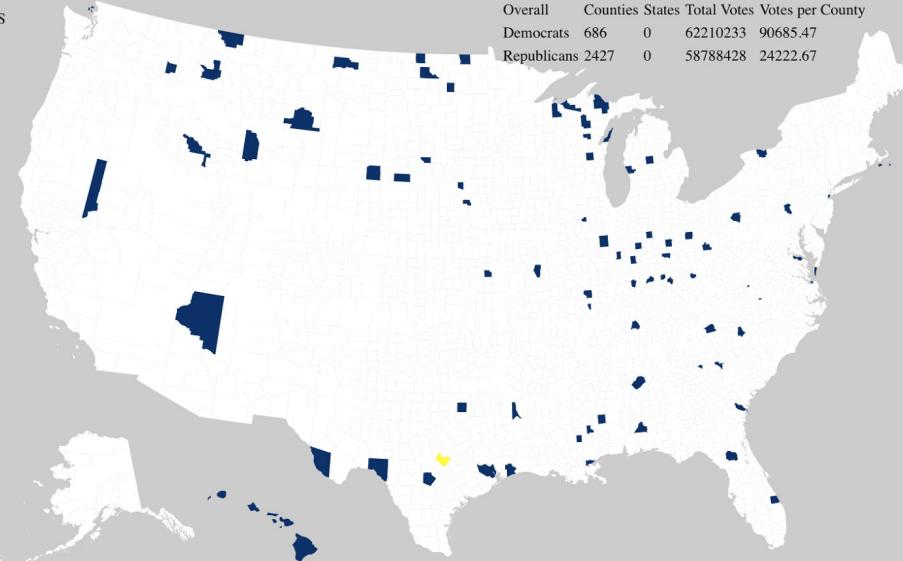
Exact same data as presented before !

<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)

Blue islands: election results and socio-economic data on a map

diegoolano.com/electionmap/

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)

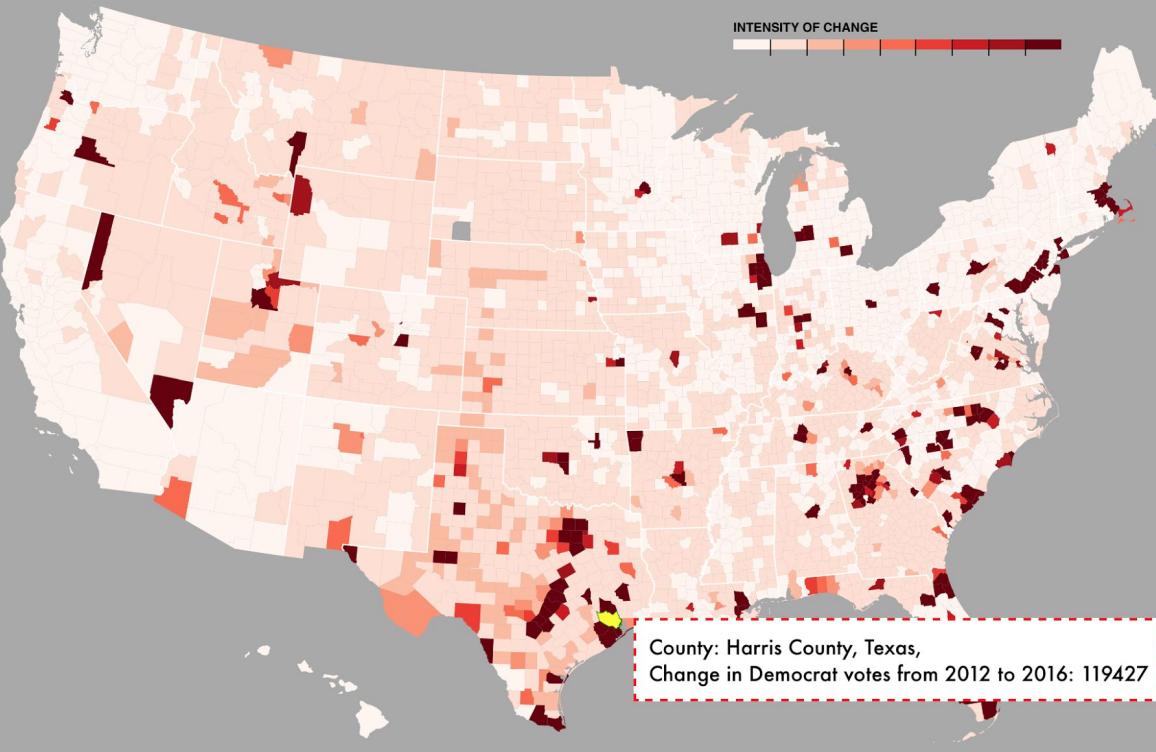
male	female	adult obese	air pollution	q ambulatory care	dentistry	diabetic	drive alone	excsdrinking	fair poor health	fast food resp
51.6	48.4	25	4	57	0.05	7	73	22	14	51

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

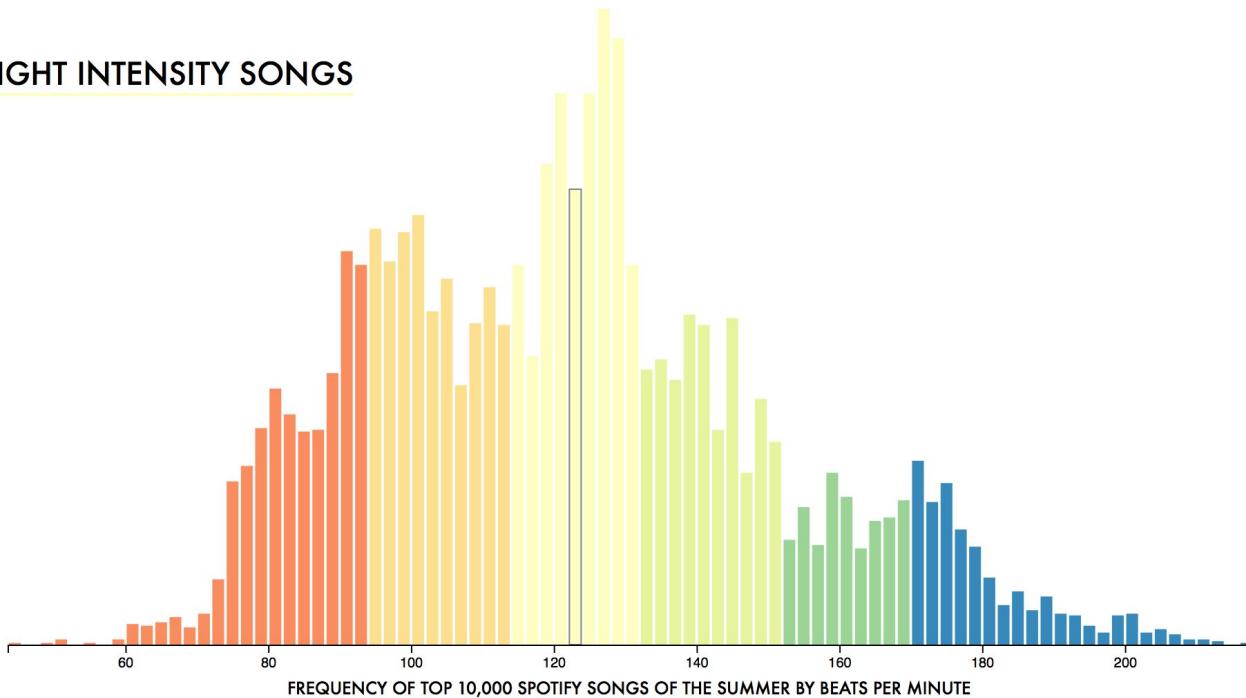


Republicans Raw Counts
Republican % Change
Democrat Raw Count
Democrat % Change
2016 Blue Islands

Raw Change of Voters for Democrats in 2016 Presidential Election

Harris County, Texas : 119427
 Miami-Dade County, Florida : 81566
 Travis County, Texas : 73687
 Orange County, Florida : 55914
 Bexar County, Texas : 54335
 Dallas County, Texas : 53274
 Cook County, Illinois : 40045
 Fairfax County, Virginia : 39212
 Broward County, Florida : 38644
 Collin County, Texas : 38422
 Middlesex County, Massachusetts : 37115
 Tarrant County, Texas : 34930
 Fort Bend County, Texas : 33331
 El Paso County, Texas : 32557
 Gwinnett County, Georgia : 32554
 Wake County, North Carolina : 31091
 Denton County, Texas : 29022
 Fulton County, Georgia : 26405
 Cobb County, Georgia : 26292
 DuPage County, Illinois : 23039
 Williamson County, Texas : 22377
 Palm Beach County, Florida : 21760
 Hidalgo County, Texas : 20770
 Mecklenburg County, North Carolina : 19996
 Hillsborough County, Florida : 19955
 Osceola County, Florida : 18048
 Montgomery County, Pennsylvania : 17707
 Loudoun County, Virginia : 17430
 Suffolk County, Massachusetts : 17316
 Norfolk County, Massachusetts : 16415
 Chester County, Pennsylvania : 15877
 Johnson County, Kansas : 15798
 Lee County, Florida : 14568
 Lake County, Illinois : 14429
 Morris County, New Jersey : 14291

LIGHT INTENSITY SONGS



CLARIFY: GROOVE IS IN THE HEART

WORDS: ROB MITCHUM VIZ: DIEGO GARCIA-OLANO

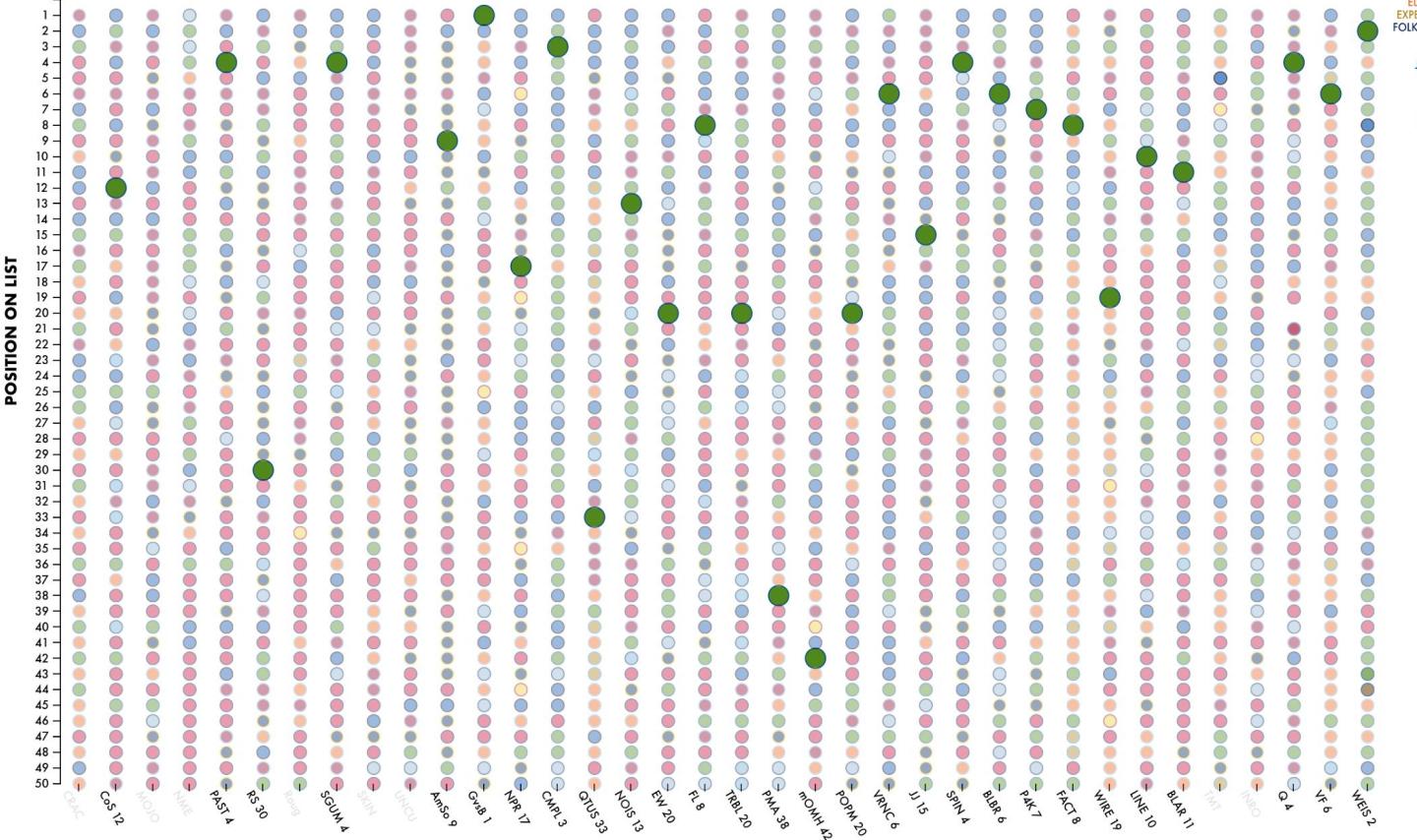
MAX HEART RATE: 190 SHOW TOP: 20

CLICK HERE TO CALCULATE YOUR MAXIMUM HEART RATE.

TOP 20 LIGHT SONGS

rank	by streams	artist	track	bpm	genre
1		Drake	Too Good	117.98	pop
2		Galantis	No Money	126.01	electro
3		Kungs	This Girl (Kungs Vs. Cookin' On 3 Burners)	121.97	r&b/jazz/blues
4		DNCE	Cake By The Ocean	119.01	pop

End Of Year Albums 2016



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

MUSIC SITES THAT LIKED THIS ALBUM ALSO LIKED:

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

4. SOLANGE - A SEAT AT THE TABLE (R&SOUL)
5. ANGEL OLSEN - MY WOMAN (INDIE)
6. BEYONCE - LEMONADE (R&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 8 1 4
 CLASSIC 2 CHAINZ
 ELECTRONIC 75 CARL BILL
 EXPERIMENTAL 60INK
 FOLK-COUNTRY 8 TIBBLE CALLED QUEST
 HIP-HOP 1 A TRIBE CALLED QUEST
 INDIE 2 AWA
 JAZZ-FUNK 3 A.B. ORIGINAL
 METAL 4 ANOHNI
 POP 5 ASAP FERG
 PUNK 6 AURORA
 R&B-SOUL 7 AARON LEE TASJAN
 ROCK 8 ABI REIMOLD
 SLEEPERS 9 ABRA
 AEGIS 10 AEGIS ROCK
 AGAINST ME! 11 AGNES OBEL
 ALA.NI 12 ALEX CAMERON
 ALICIA KEYS 13 ALL GET OUT
 ALLAH-LAS 14 AMANDA SHIRES
 AMERICAN FOOTBALL 15 AMNESIA SCANNER
 ANDERSON .PAAK 16 ANDREW BIRD
 ANDY BIRCH 17 ANDY STOTT
 ANENON 18 ANGEL OLSEN
 ANNA MEREDITH 19 ANXIETY
 APHEX TWIN 20 ARABROT
 BABYFATHER 21 ARCA
 ARIANA GRANDE 22 AUTOCHRE - ELSEQ
 BADBADNOTGOOD 23 BE
 BJ THE CHICAGO KID 24 BRONCHO
 BAALU 25 BABYMETAL
 BALANCE AND COMPOSURE 26 BAND OF HORSES
 BARBARA HANNIGAN 27 BARONESS
 BASEMENT 28 BASTILLE
 BAT FOR LASHES 29 BAYONNE
 BEACHS 30 BENJAMIN BIOLY
 BERNARD FANNING 31 BEYONCE
 BEYOND THE WIZARDS SLEEVE 32 BIFFY CLYRO
 BIG SCARY 33 BIG SMOKE
 BIG THIEF 34 BIG UPS
 BILL BAIRD 35 BITCHIN BAJAS & BONNIE PRINCE BILL
 BJAJK 36 BLACK MERLIN
 BLACK MOUNTAIN 37 BLOOD ORANGE
 BLOSSOMS 38 BOB DYLAN
 BON IVER 39 BONNIE RAITT
 BOTANY 40 BRANDY CLARK
 BRIAN ENO 41 BRIAN FALLON
 BRIGID MAE POWER 42 BROODS
 BROTHERS OSBORNE 43

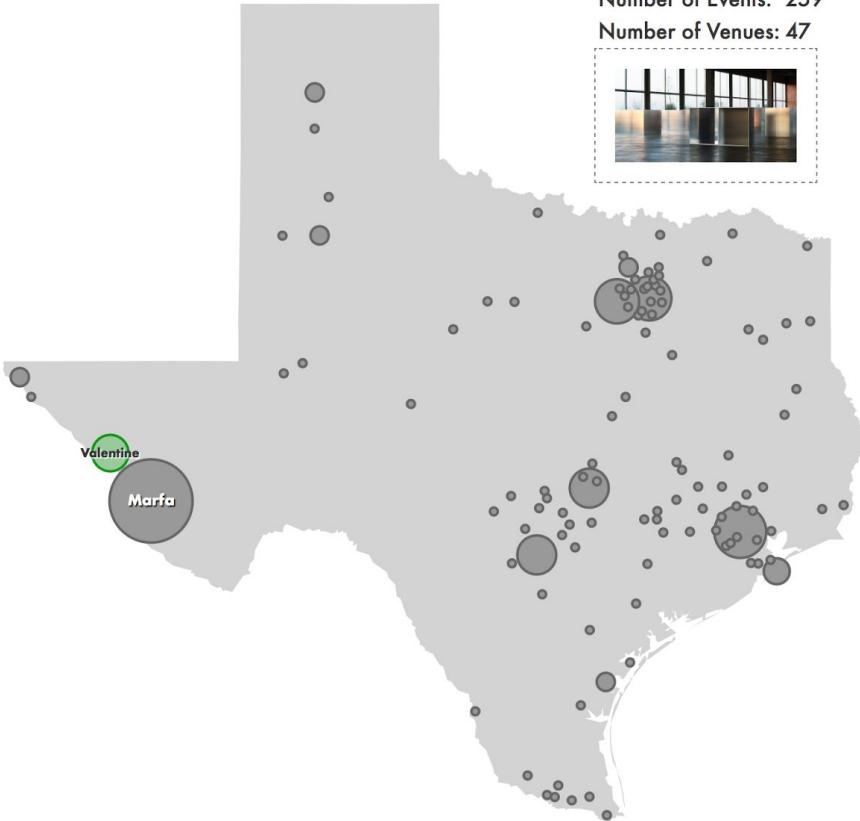
2017 MUSIC FESTIVALS

4/14, CA COACHELLA		4/28, LA JAZZFEST		5/3, FL SUNFEST		5/12, GA SHAKYKNEES		5/19, AL HANGOUT		5/26, MA BOSCALING		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"/> — THE HEAD AND THE HEART		<input checked="" type="checkbox"/> — THE HEAD AND THE HEART		<input checked="" type="checkbox"/> — THE HEAD AND THE HEART			
— Lorde		— Lorde		— ALABAMA SHAKES		— PATTI LABELLE		— THE STRUMBELLAS		— THE NAKED AND FAMOUS		— RHYANNON GIDDENS		— AMBROSIA		— LILLIE MAE		— RUN RIVER NORTH		— ARIZONA		— WARPAINT		— WARPAINT	
— THE XX		— THE XX		— CORINNE BAILEY RAE		— THE NAKED AND FAMOUS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LEILANI		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— THE HEAD AND THE HEART		— THE HEAD AND THE HEART		— IRMA THOMAS		— FAMOUS		— THE STRUMBELLAS		— THE STRUMBELLAS		— HERB ALPERT & LANI HALL		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— PHANTOGRAM		— PHANTOGRAM		— KEHLANI		— ELLE KING		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILLIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— KEHLANI		— KEHLANI		— LITTLE DRAGON		— RHIANNON GIDDENS		— THE STRUMBELLAS		— THE STRUMBELLAS		— HERB ALPERT & LANI HALL		— AMBROSIA		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— BANKS		— BANKS		— GROUPLOVE		— MS. LISA FISCHER & GRAND BATON		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— TOVE LO		— TOVE LO		— ROISIN MURPHY		— MARGO PRICE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— CRYSTAL CASTLES		— CRYSTAL CASTLES		— KIIARA		— JOHNNYSWIM		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— BROODS		— BROODS		— MAYA JANE COLES		— LAKE STREET DIVE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— WARPAINT		— WARPAINT		— NAO		— MADAME MAYHEM		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— OH WONDER		— OH WONDER		— SOFI TUKKER		— MERESHA		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— SOFI TUKKER		— SOFI TUKKER		— ZIPPER CLUB		— ROANOKE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— MITSKI		— MITSKI		— HINDS		— JOHNNSWIM		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— TENNIS		— TENNIS		— HINDS		— FLOORPLAN		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— THE ATOMICS		— THE ATOMICS		— THE LEMON TWIGS		— HANNAH WANTS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— THE LEMON TWIGS		— THE LEMON TWIGS		— MOSS KENA		— HANNAH WANTS		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— THE LEMON TWIGS		— THE LEMON TWIGS		— TACOCAT		— ANNA LUNOE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— THE LEMON TWIGS		— THE LEMON TWIGS		— ALISON SWING		— ANNA LUNOE		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— SHURA		— SHURA		— HONEY DIJON		— GRACE MITCHELL		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
— HONEY DIJON		— HONEY DIJON		— JEN FERRER		— MOSS KENA		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— WOLFGRAMM		— LILIE MAE		— FAMILY AND FRIENDS		— NORA EN PURE		— WARPAINT		— WARPAINT	
— EIU & FUR		— EIU & FUR		— HONEY DIJON		— JEN FERRER		— THE STRUMBELLAS		— THE STRUMBELLAS		— THE LONE BELLOW		— TAYLA PARK		— OCEAN PARK		— ZIPPER CLUB		— CON BRIO		— AMYTHYST KIAH		— WARPAINT	
ARTICLE LINK																									
WORDS: ROB MITCHUM																									
VIZ: DIEGO GARCIA-OLANO																									
BAND CENTRIC VIZ																									



Glasstire: Marfa

ABOUT

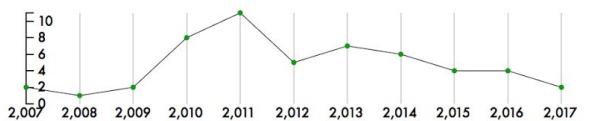


2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 ALL

Showing ALL Results

venue

Chinati Foundation



<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	VENUES [676]		ART
ALL CITIES	ALL VENUES		ALL
	NAME	EV▲	AR CITY
HOUSTON	MUSEUM OF FINE ARTS, HOUSTON - MFAH	235	320 HOUSTON
DALLAS	LAWNDALE ART CENTER	222	346 HOUSTON
AUSTIN	500X GALLERY	182	270 DALLAS
SAN ANTONIO	CONDUIT GALLERY	169	179 DALLAS
FORT WORTH	ART LEAGUE HOUSTON	161	249 HOUSTON
MARFA	MENIL COLLECTION	157	232 HOUSTON
EL PASO	CO-LAB PROJECTS	152	254 AUSTIN
GALVESTON	MCKINNEY AVENUE CONTEMPORARY (THE MAC)	151	294 DALLAS
DENTON	BLUE STAR CONTEMPORARY ART MUSEUM	150	361 SAN ANTONIO
LUBBOCK	MODERN ART MUSEUM OF FORT WORTH	146	195 FORT WORTH
ABILENE	BOX 13 ARTSPACE	146	275 HOUSTON
ADDISON	GALVESTON ARTS CENTER	142	196 GALVESTON
ALBANY	CONTEMPORARY ARTS MUSEUM HOUSTON - CAMH	135	276 HOUSTON
ALLEN	BELLAIRE MCNAY ART MUSEUM	134	220 SAN ANTONIO
ALVIN	CENTRALTRAK	134	254 DALLAS
AMARILLO	ARTPACE	125	194 SAN ANTONIO
ARLINGTON	DALLAS MUSEUM OF ART	120	180 DALLAS
ARP	Houston CENTER FOR CONTEMPORARY CRAFT	117	178 HOUSTON
BAYTOWN	BLANTON MUSEUM OF ART	115	235 AUSTIN
BEAUMONT	UT VISUAL ARTS CENTER (VAC)	114	207 AUSTIN
BEVILLE	WALLY WORKMAN GALLERY	110	70 AUSTIN
BELLAIRE	Houston CENTER FOR PHOTOGRAPHY	106	192 HOUSTON
BLANCO	Center for Contemporary Arts - ABILENE	105	128 ABILENE
BOERNE	REDBUD GALLERY	104	128 HOUSTON
BRECKENRIDGE	BLAFFER ART MUSEUM	104	212 HOUSTON
BRENNHAM	HIRAM BUTLER GALLERY	103	92 HOUSTON
BROWNSVILLE	HOOKS-EPSTEIN GALLERIES	102	81 HOUSTON
BRYAN	EL PASO MUSEUM OF ART	102	190 EL PASO
CANYON	ART PALACE	101	92 HOUSTON
CASTROVILLE	PHOTOGRAPHS DO NOT BEND GALLERY	100	137 DALLAS
CEDAR HILL	MOODY GALLERY	100	65 HOUSTON
CEDAR PARK	G GALLERY	100	199 HOUSTON
CLEVELAND,	INMAN GALLERY	99	44 HOUSTON
COLLEGE STATION			
COLUMBUS			
COMMERCE			
CONROE			
CORPUS CHRISTI			
CORSICANA			
CYPRESS			
DENISON			
DUNCANVILLE			
EDINBURG			
FARMERS BRANCH			
FAYETTEVILLE			
FLORENCE			
FREDERICKSBURG			
FRISCO			
GARLAND			
GEORGETOWN			
GRANBURY			
GRAPENVILLE			

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
RENÉ CRUZ	24
JUSTIN BOYD	24
JOHN POMARA	24
JOEY FAUERSO	24
VINCENT FALSETTA	23
RUSTY SCRUBY	23
ROBERT RAUSCHENBERG	23
RAUL GONZALEZ	23
MARI OMORI	23
JULIE SPEED	23

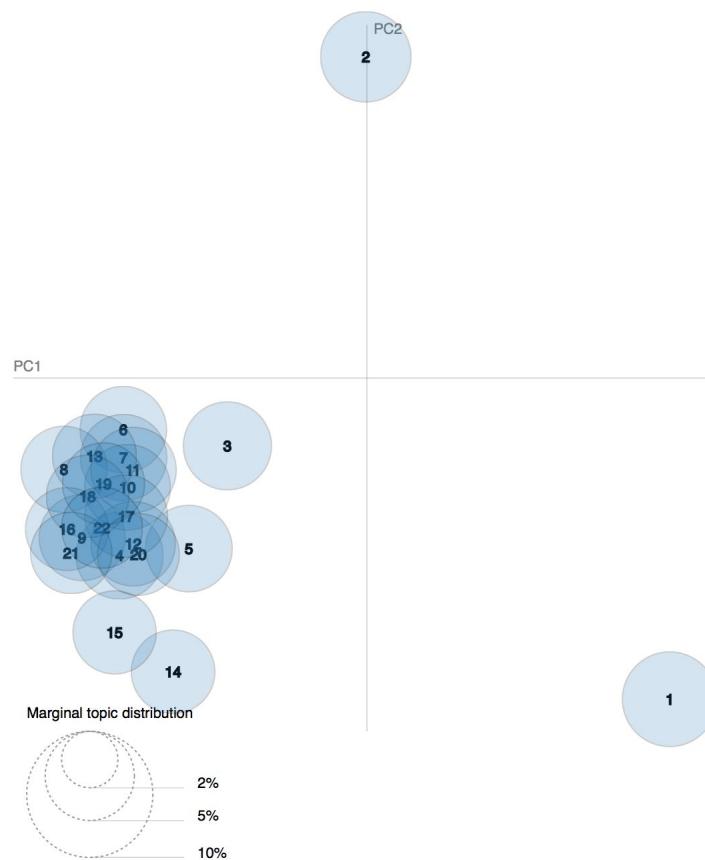
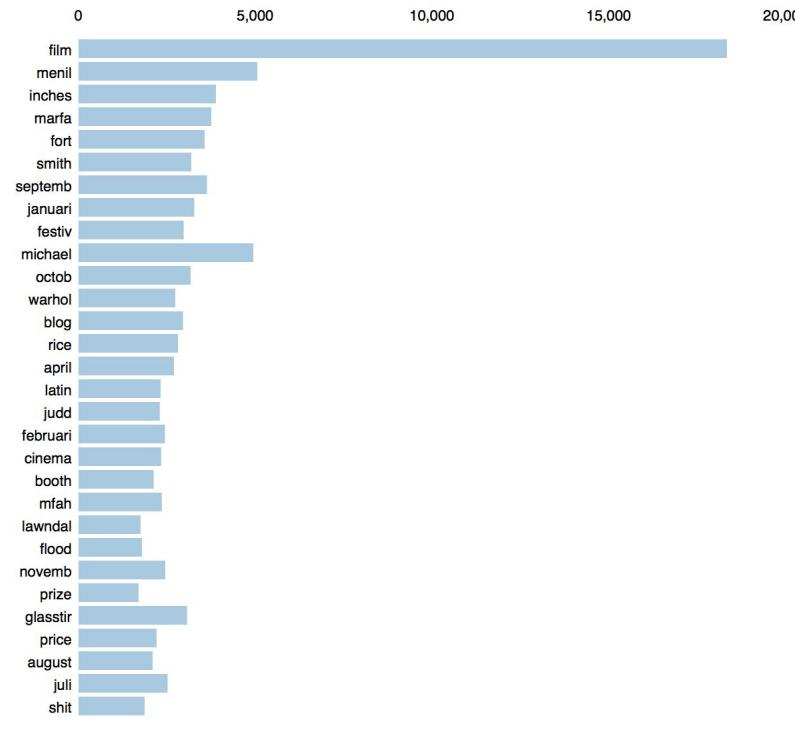
LANCE LETSCHER VISIT ARTIST'S GLASSSTIRE PA

ARTIST'S GLASSTIRE PA

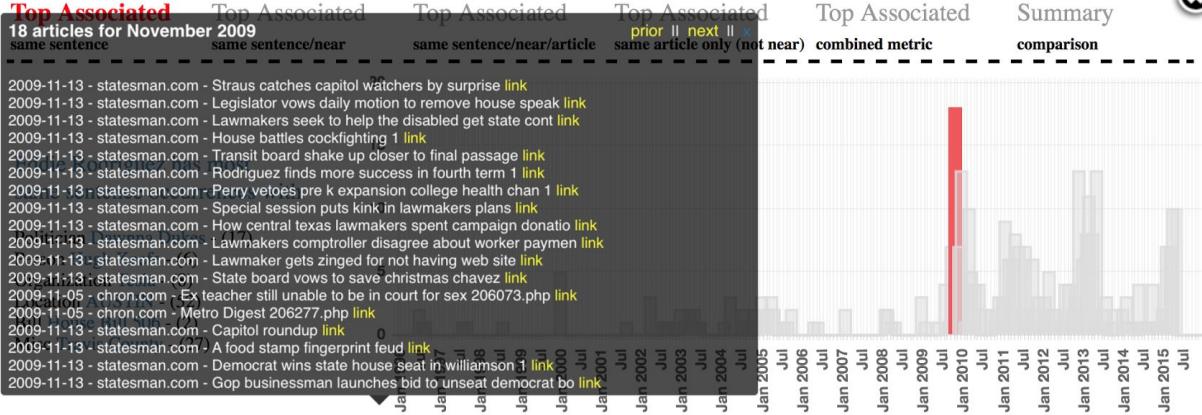
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DATE	EVENT	VENUE	CITY
SEP 2017	LANCE LETSCHER: COLLAGE AND DRAWING	THE LOUIE HOPKINS UNDERWOOD CENTER FOR THE ARTS- LHUCA	LUBBOCK
FEB 2017	LANCE LETSCHER: NEW WORK FROM THE LATE MIDDLE AGES	STEPHEN L. CLARK GALLERY	AUSTIN
OCT 2015	LANCE LETSCHER: BE MY LIFE'S COMPANION	CONDUIT GALLERY	DALLAS
SEP 2015	LANCE LETSCHER: NEW WORK	STEPHEN L. CLARK GALLERY	AUSTIN
MAR 2015	LANCE LETSCHER: PARALLEL UNIVERSE	MCMURTRY 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	MCMURTRY 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	MCMURTRY 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	MCMURTRY GALLERY	HOUSTON
SEP 2010	88, ORGANIZED BY ANDY COOLQUITT	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	MCMURTRY GALLERY	HOUSTON
AUG 2009	ARTHOUTON 2009: JANE EIFLER & JON VON LETSCHER	MCMURTRY GALLERY	HOUSTON
JUN 2009	LETSCHER, LAPTHISOPHON, AND OTTINGER	CONDUIT GALLERY	DALLAS
JAN 2009	WHAT'S MY LINE?	MCMURTRY GALLERY	HOUSTON
NOV 2008	COLLAGE: MORE AND LESS	WILLIAMS TOWER GALLERY	HOUSTON
NOV 2008	LANCE LETSCHER: MACHINES, BUILDINGS, AND BOOKS	MCMURTRY 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 SCANPOL 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)



Politicians:	Organizations:	Persons:	Locations:	Bills:	Misc:
Dawnna Dukes - 17	Tesla - 8	Ciro Rodriguez - 6	AUSTIN - 52	House Bill	Travis County -
Elliott Naishat - 16	Milford Superior Court - 7	Hugh Keefe - 6	East Austin - 10	3301 - 2	27
Mark Strama - 14	Farm to Table Caucus - 5	Richard Raymond - 5	San Antonio - 8	House Bill	Austin Democrat
Tom Craddick - 14	Calendars Committee - 3	Lulu Flores - 4	Milford - 6	506 - 2	- 9
Lon Burnam - 12	Edgewood - 3	Gene Meyer - 4	Texas House - 6	House Bill	urban - 8
Donna Howard - 12	Mexican American Legislative Caucus - 3	Democrats Eddie Lucio III - 4	Springdale Farm - 4	3033 - 1	Austin
Kirk Watson - 12	University of Texas - 3	Terri Hodge - 4	Nautica - 3	Senate Bill	Democratic - 4
Craig Eiland - 9	Houston - 3	Lee Leffingwell - 4	Central Texas - 3	1715 - 1	American-owned
Jessica Farrar - 9	Edwards Aquifer Authority District - 2	Paul Moreno - 4	Dallas - 3	House Bill	- 2
Lois Kolkhorst - 9	San Antonio City Council - 2	Terry Wilke - 3	Fort Worth - 2	1677. - 1	Mexican-
Patrick Rose - 8	Wilke-Rodriguez - 2	James Kroner - 3	Wichita - 2	HB 213 - 1	American - 2
Valinda Bolton - 8	Democratic House - 2	Nenad Kostic - 3	Chicon Street - 2	House Bill	Dulin's - 2
Senfronia Thompson - 8	HPD - 2	David Chu - 3	Fort - 2	970 - 1	Electon Day - 2
Garnet Coleman - 8	CNN - 2	Kevin Russo - 3	San - 2	House Bill	Moncrease - 2
David Simpson - 8	Workers Defense Project - 2	Steven Slowik - 3	Newtown - 2	294 - 1	A House - 1
Mark Homer - 7	Mando - 2	Doc " Anderson - 3	Dripping Springs - 2	HB 970 - 1	Hispanics - 1
Joe Deshotel - 7	University of Connecticut - 2	Rick Noriega - 3	El Paso - 2	HB 296 - 1	Democrats
Abel Herrero - 6	TCEQ - 2	Thomas Bavedas - 3	Vail Pass - 1	SB 376 - 1	SB 376 - 1
Helen Giddings - 6	Latino - 2	Joseph Guerra - 3	Beaver Creek - 1	House Bill	Dawnna Dukes -
Ruth Jones McClendon - 6	Talons Challenge - 1	Robert Dulin - 3	Austin state	1	1
Rene Oliveira - 6	Toyota - 1	Rick Perry - 3	Representatives - 1	3810 - 1	Mexican
Pete Gallego - 6	Marilyn Jackson - 2	George Rodriguez - 2	Austin-area state	HB 2 - 1	American - 1
Scott Hochberg - 6	Representatives - 1	Laura Stromberg - 2	Representatives - 1	House Bill	State-level - 1
Ryan Guillen - 6	Texas House Farm-to-Table Caucus -		Chavez - 1	1053 - 1	Libertarian

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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)

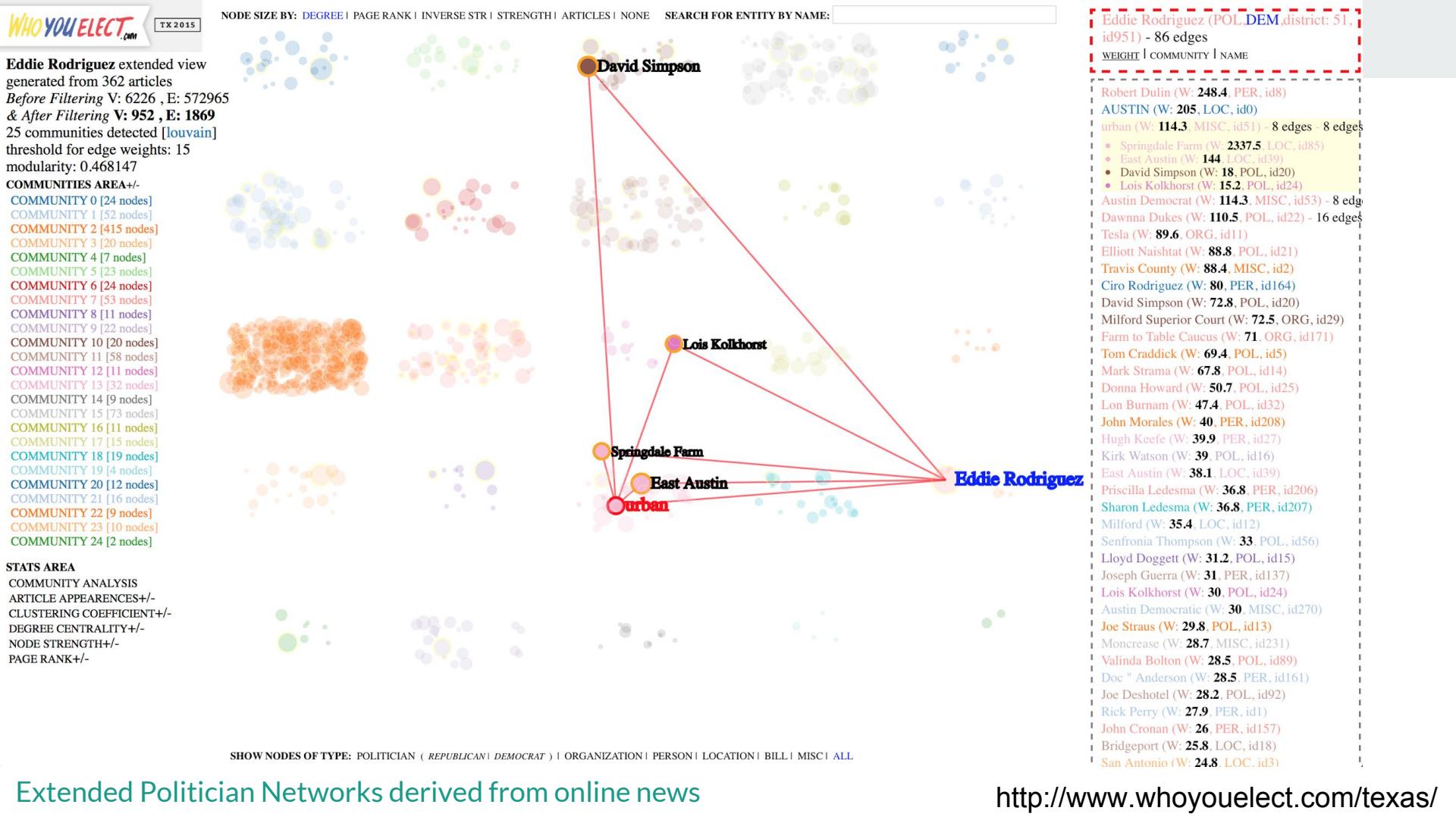
APPLY NEW SOURCE FILTER

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

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2011 ARGENTINA
CARANCHODIRECTOR: PABLO TRAPERO [TRAILER ON YOUTUBE!](#) THRILLER DRAMA ROMANCE

≡ 1/20 Carancho - Official US Trailer

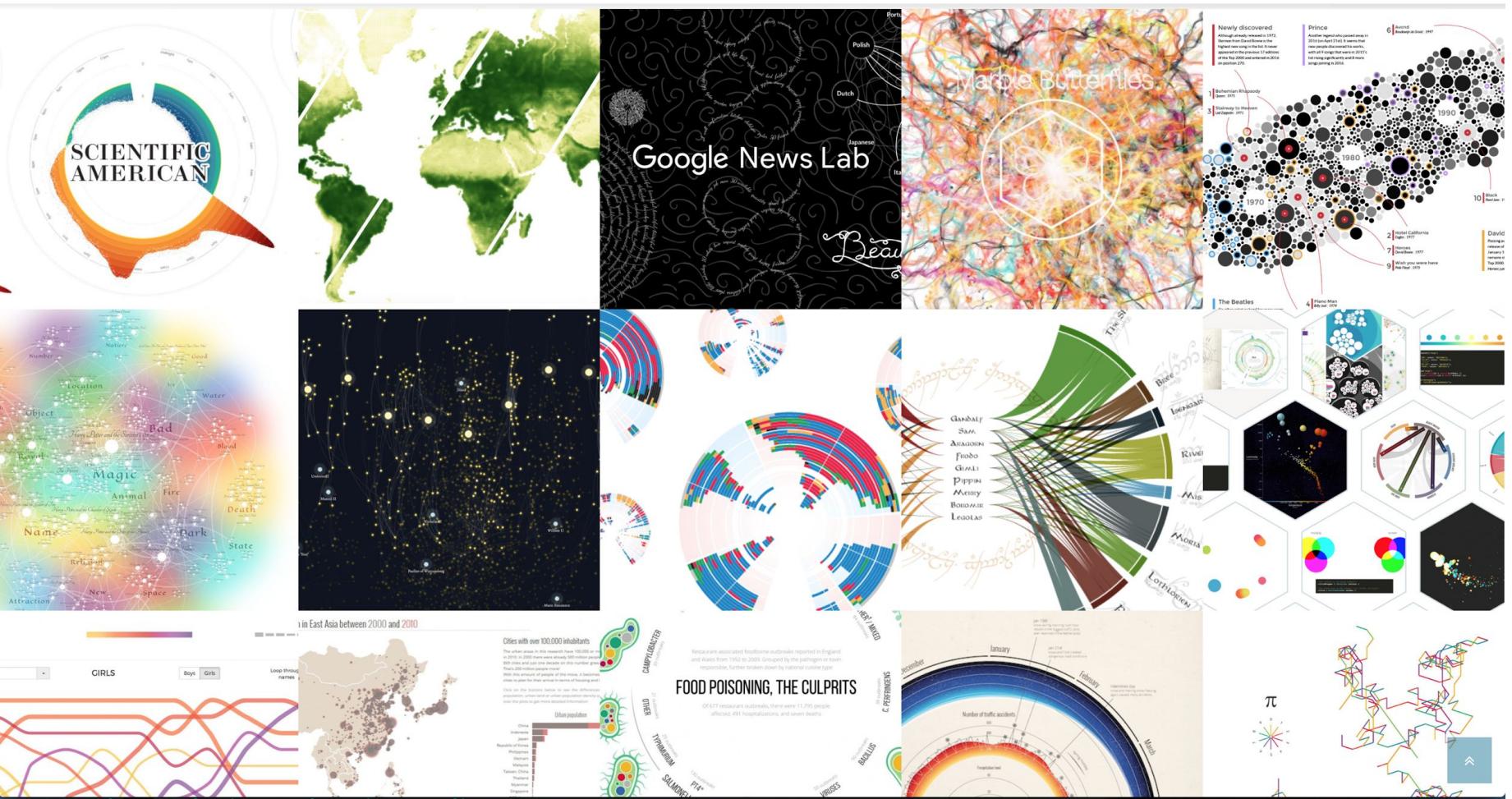


OVERVIEW: IN ARGENTINA OVER 8 000 PEOPLE DIE IN TRAFFIC ACCIDENTS EVERY YEAR. BEHIND EACH OF THESE TRAGEDIES IS A FLOURISHING INDUSTRY FOUNDED ON INSURANCE PAYOUTS AND LEGAL LOOPHOLES. SOSA IS A LAWYER WHO TOURS THE A&E DEPARTMENTS OF THE PUBLIC HOSPITALS AND THE POLICE STATIONS IN SEARCH OF POTENTIAL CLIENTS. LUJÁN IS A YOUNG DOCTOR RECENTLY ARRIVED FROM THE PROVINCES. THEIR LOVE STORY KICKS OFF ONE NIGHT WHEN LUJÁN AND SOSA MEET IN THE STREET. SHE'S TRYING TO SAVE A MAN'S LIFE; HE WANTS HIM ON HIS CLIENT PORTFOLIO

FILM WIKI LINK: CARANCHO IS A 2010 ARGENTINE CRIME FILM DIRECTED BY PABLO TRAPERO AND STARRING RICARDO DARÍN AND MARTINA GUSMÁN. IT WAS ENTERED INTO THE UN CERTAIN REGARD SECTION OF THE 2010 CANNES FILM FESTIVAL. THE FILM WAS SELECTED AS THE ARGENTINE ENTRY FOR THE BEST FOREIGN LANGUAGE FILM AT THE 83RD ACADEMY AWARDS, BUT IT DID NOT MAKE THE FINAL SHORTLIST. ...

DIRECTOR WIKI LINK: PABLO TRAPERO (BORN 4 OCTOBER 1971) IS AN ARGENTINE FILM PRODUCER, EDITOR AND DIRECTOR. HE IS CONSIDERED A ONE OF THE BIGGEST CREATIVE FORCES IN LATIN AMERICAN CINEMA. ...

1957: AFTERNOON OF THE BULLS ([SPAIN](#))1958: TORERO ([MEXICO](#))1958: HIGH STREET ([SPAIN](#))1959: LA VENGANZA ([SPAIN](#)) *1960: NAZARÍN ([MEXICO](#))1961: MACARIO ([MEXICO](#)) *1961: AT FIVE O'CLOCK IN THE AFTERNOON ([SPAIN](#))1962: SUMMER SKIN ([ARGENTINA](#))1962: THE IMPORTANT MAN ([MEXICO](#)) *1962: PLÁCIDO ([SPAIN](#)) *1963: THE SAD YOUNG MEN ([ARGENTINA](#))1963: TLAYUCAN ([MEXICO](#)) *1963: DULCINEA ([SPAIN](#))1964: THE PAPER MAN ([MEXICO](#))1964: LOS TARANTOS ([SPAIN](#)) *1965: THE GIRL IN MOURNING ([SPAIN](#))1966: PAJARITO GÓMEZ ([ARGENTINA](#))1966: ALWAYS FARTHER AWAY ([MEXICO](#))1966: LA TIÁ TULA ([SPAIN](#))1967: BLACK WIND ([MEXICO](#))1968: THE ADOLESCENTS ([MEXICO](#))1968: NO STARS IN THE JUNGLE ([PERU](#))1968: EL AMOR BRUJO ([SPAIN](#)) *1969: SPAIN AGAIN ([SPAIN](#))1970: THE GREEN WALL ([PERU](#))1970: LA CELESTINA ([SPAIN](#))1971: TRISTANA ([SPAIN](#)) *1972: EL TOPO ([MEXICO](#))1972: MARTA ([SPAIN](#))1973: THE DISCREET CHARM OF THE BOURGEOISIE ([FRANCE](#)) *1973: MIRAGE ([PERU](#))1973: MY DEAREST SENIORA ([SPAIN](#)) *1974: REED: INSURGENT MEXICO ([MEXICO](#))1974: HABLA MUJITA ([SPAIN](#))1975: THE TRUCE ([ARGENTINA](#)) *1975: CALZONZIN INSPECTOR ([MEXICO](#))1975: LA PRIMA ANGELICA ([SPAIN](#))1976: NAZARENO CRUZ AND THE WOLF ([ARGENTINA](#))1976: LETTERS FROM MARUSIA ([MEXICO](#)) *1976: POACHERS ([SPAIN](#))1991: THE MOON IN THE MIRROR ([CHILE](#))1991: THE BEAUTY OF THE ALHAMBRA ([CUBA](#))1991: CABEZA DE VACA ([MEXICO](#))1991: FALLEN FROM HEAVEN ([PERU](#))1991: [AY CARMELA!] ([SPAIN](#))1992: THE TOMBS ([ARGENTINA](#))1992: LA FRONTERA ([CHILE](#))1992: CONFESSING TO LAURA ([COLOMBIA](#))1992: HELLO HEMINGWAY ([CUBA](#))1992: HOMEWORK ([MEXICO](#))1992: ALIAS 'LA GRINGA' ([PERU](#))1992: HIGH HEELS ([SPAIN](#))1992: JERICHO ([VENEZUELA](#))1993: THE DARK SIDE OF THE HEART ([ARGENTINA](#))1993: ADORABLE LIES ([CUBA](#))1993: LIKE WATER FOR CHOCOLATE ([MEXICO](#))1993: THE FENCING MASTER ([SPAIN](#))1993: A PLACE IN THE WORLD ([URUGUAY](#))1994: GATICA EL MONO ([ARGENTINA](#))1994: JOHNNY 100 PESOS ([CHILE](#))1994: CRONOS ([MEXICO](#))1994: REPORT ON DEATH ([PERU](#))1994: BELLE EPOQUE ([SPAIN](#)) *1995: A SHADOW YOU SOON WILL BE ([ARGENTINA](#))1995: AMNESIA ([CHILE](#))1995: THE STRATEGY OF THE SNAIL ([COLOMBIA](#))1995: STRAWBERRY AND CHOCOLATE ([CUBA](#)) *1995: THE SILENCE OF NETO ([GUATEMALA](#))1995: THE BEGINNING AND THE END ([MEXICO](#))1995: WITHOUT COMPASSION ([PERU](#))1995: LINDA SARA ([PUERTO RICO](#))1995: CRADLE SONG ([SPAIN](#))1995: KNOCKS AT MY DOOR ([VENEZUELA](#))1996: WILD HORSES ([ARGENTINA](#))1996: JONAH AND THE PINK WHALE ([BOLIVIA](#))1996: NUEBA YOL ([DOMINICAN REPUBLIC](#))1996: MIDAQ ALLEY ([MEXICO](#))1996: THE FLOWER OF MY SECRET ([SPAIN](#))1996: SICARIO ([VENEZUELA](#))1997: EVA PERON ([ARGENTINA](#))1997: OEDIPUS MAYOR ([COLOMBIA](#))1997: THINK OF ME ([CUBA](#))1997: BETWEEN PANCHO VILLA AND A NAKED WOMAN ([MEXICO](#))1997: BWANA ([SPAIN](#))1998: ASHES OF PARADISE ([ARGENTINA](#))1998: THE DEBT ([COLOMBIA](#))1998: VERTICAL LOVE ([CUBA](#))1998: DEEP CRIMSON ([MEXICO](#))1998: SECRETS OF THE HEART ([SPAIN](#)) *1998: ONE LIFE AND TWO TRAILS ([VENEZUELA](#))1999: TANGO ([ARGENTINA](#)) *2007: PAN'S LABYRINTH ([MEXICO](#)) *2007: MADEINUSA ([PERU](#))2007: THIEVES AND LIARS ([PUERTO RICO](#))2007: VOLVER ([SPAIN](#))2007: MAROA ([VENEZUELA](#))2008: XXY ([ARGENTINA](#))2008: LOS ANDES NO CREEN EN DIOS ([BOLIVIA](#))2008: PADRE NUESTRO ([CHILE](#))2008: SATANÁS ([COLOMBIA](#))2008: THE SILLY AGE ([CUBA](#))2008: CROSSING A SHADOW ([PERU](#))2008: LOVE SICKNESS ([PUERTO RICO](#))2008: THE ORPHANAGE ([SPAIN](#))2008: THE POPE'S TOILET ([URUGUAY](#))2008: POSTCARDS FROM LENINGRAD ([VENEZUELA](#))2009: LION'S DEN ([ARGENTINA](#))2009: TONY MANERO ([CHILE](#))2009: DOG EAT DOG ([COLOMBIA](#))2009: TEAR THIS HEART OUT ([MEXICO](#))2009: THE BLIND SUNFLOWERS ([SPAIN](#))2009: KILL THEM ALL ([URUGUAY](#))2009: THE COLOR OF FAME ([VENEZUELA](#))2010: THE SECRET IN THEIR EYES ([ARGENTINA](#)) *2010: SOUTHERN ZONE ([BOLIVIA](#))2010: DAWSON ISLAND 10 ([CHILE](#))2010: THE WIND JOURNEYS ([COLOMBIA](#))2010: FALLEN GODS ([CUBA](#))2010: BACKYARD ([MEXICO](#))2010: THE MILK OF SORROW ([PERU](#)) *2010: KABO AND PLATON ([PUERTO RICO](#))2010: THE DANCER AND THE THIEF ([SPAIN](#))2010: BAD DAY FOR FISHING ([URUGUAY](#))2010: LIBERTADOR MORALES EL JUSTICIERO ([VENEZUELA](#))2011: CARANCHO ([ARGENTINA](#))2011: THE LIFE OF FISH ([CHILE](#))2011: CRAB TRAP ([COLOMBIA](#))2011: OF LOVE AND OTHER DEMONS ([COSTA RICA](#))2011: BIUTIFUL ([MEXICO](#)) *2011: LA YUMA ([NICARAGUA](#))2011: UNDERTOW ([PERU](#))2011: MIENTE ([PUERTO RICO](#))2011: EVEN THE RAIN ([SPAIN](#))2011: A USEFUL LIFE ([URUGUAY](#))2011: HERMANO ([VENEZUELA](#))2012: ABALLY ([ARGENTINA](#))2012: VIOLETA WENT TO HEAVEN ([CHILE](#))2012: THE COLORS OF THE MOUNTAIN ([COLOMBIA](#))2012: HAVANASTATION ([CUBA](#))2012: SUPERCLÁSICO ([DENMARK](#))2012: LOVE CHILD ([DOMINICAN REPUBLIC](#))2012: MISS BALA ([MEXICO](#))2012: OCTOPUS ([PERU](#))



D3 + a lot of design = data journalism

<https://www.visualcinnamon.com>

Anaconda / Python Based links

How to solve visualization problems with Python tools

web-based Python tools supported by [Anaconda](#), including [Bokeh](#), [HoloViews](#), [GeoViews](#), [Datashader](#), and [Param](#)
<https://github.com/ContinuumIO/anacondaviz>

HoloViews+Bokeh tutorial for JupyterCon 2017

<https://github.com/ioam/jupytercon2017-holoviews-tutorial>

D3 / Bokeh

D3 is not for quick EDA!



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

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

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

In both cases, 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)