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Ann K. Emery







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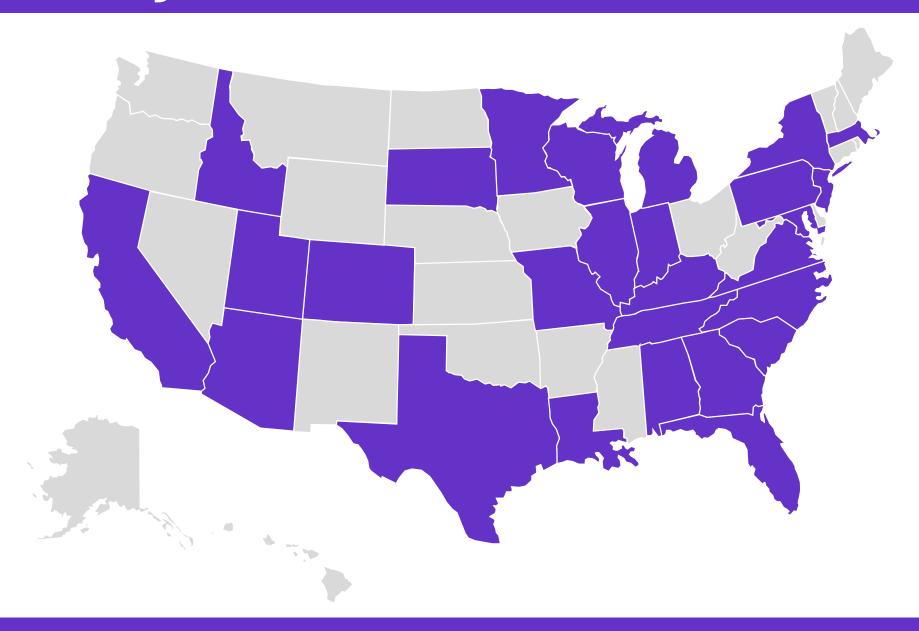
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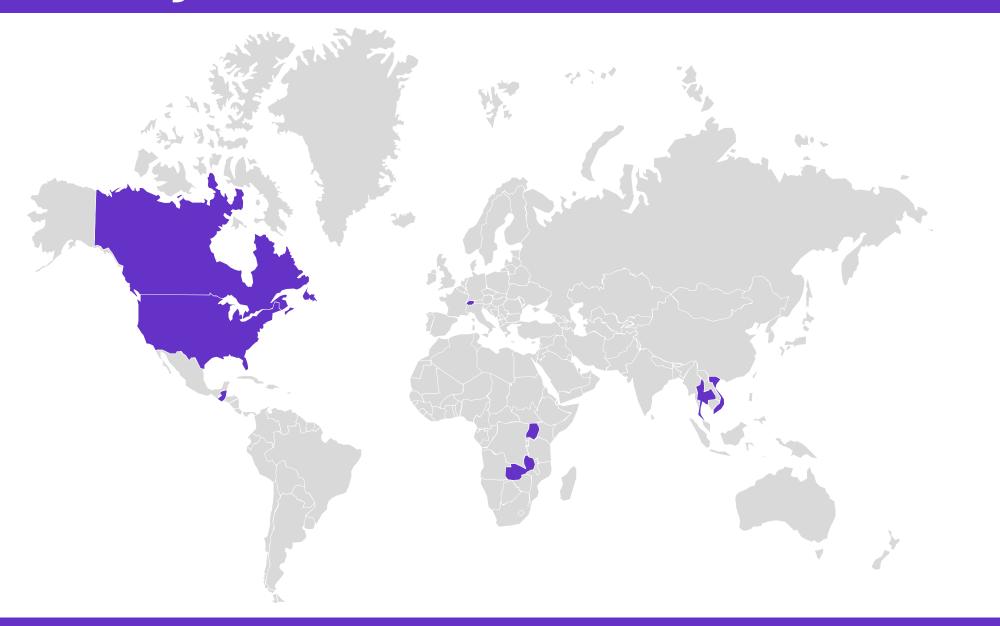
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Depression, Relationships, and Publish Relations. 10

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	Jinis	[5 Best	ATP	Test 17
likey II. Dansace	-16	-18		
Desire	,11	.10		
Distriction from step 1			.074	.074
Stop 2. state/mored Department	-3344	$-40^{\rm o}$		
Material Depression	-11	-10		
Statistics from step 2			.12**	.79****
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depict data studio



Our Regional Impact MAP KEY We work in 29 countries in five regions around the world, designing and implementing projects that are tailored to local markets and aim to Financial Beneficiaries Finance foster more inclusive economies. This map shows our impact across the Benefits Mobilized regions for our three key indicators 掛 .a. .iti ≥ Latin America and the Caribbean 排註 ## Z 4 TECHNOSERVE 2016 IMPACT REPORT 5

TechnoServe links people to the information, capital mselves out of poverty for their families and terventions for greatest t the farmers and nue to reap financial ve project ends.

> ide hands-on training in ricultural practices that apply season after season in higher quality and grow lds. We deliver business nd skills training to entrethat help them sustainably eir enterprises for years We connect farms and es with financing they can to access in the future. elp broker relationships farmers and buyers that ommercially viable and ong-term value for all

Impact Report focuses on ainability of TechnoServe's and the methods we use re ongoing impact. We u to explore the results of sformative work and learn out our lasting solutions.

2016 Impact Results









OUR WORK IMPROVES FARMERS' LIVELIHOODS

TechnoServe's projects target crops for home and local consumption as well as crops intended for export markets, depending on our assessment of the local economy and needs. When farmers increase their yields for crops such as maize, they have more to eat and more to sell. For export crops like coffee, the extra income we help farmers generate allows families to purchase more food and make other investments in their well-being.

Financial benefits in 2016, sized by amount and disaggregated by sector



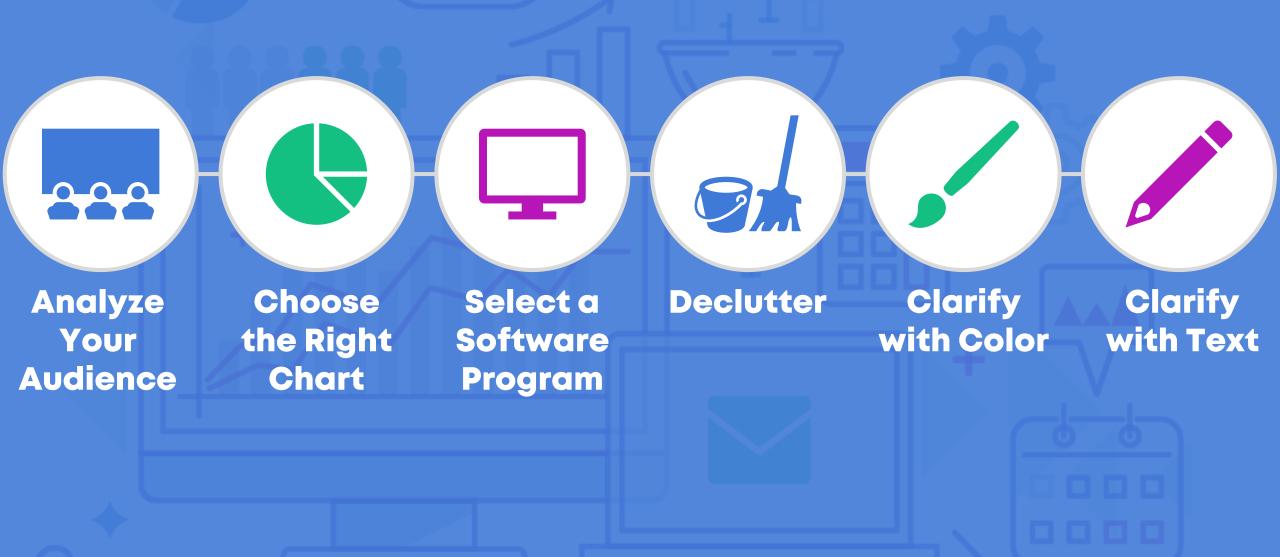
A FARMER SUSTAINABLY INCREASES HIS INCOME

In northern Mozambique, cashew farmer Carlos Lassimo joined TechnoServe's MozaCajú program and learned good agronomy practices, such as pruning and cleaning, that have increased his trees' productivity. We connected him with agricultural inputs so he could grow and provide seedlings to expand cashew farms in the community. The project also provided business training and helped Carlos organize with other farmers to aggregate his harvests and sell at higher prices.

After the project ends, Carlos will continue to sell as part of his farmer group. The improved farming practices he has adopted will help his cashew trees thrive, and in three years his seedlings will have matured into productive trees leading to a sustained increase in yields and income for years to come.

TechnoServe, https://depictdatastudio.com/impact-report/

2016 IMPACT REPORT 7



Take Notes!



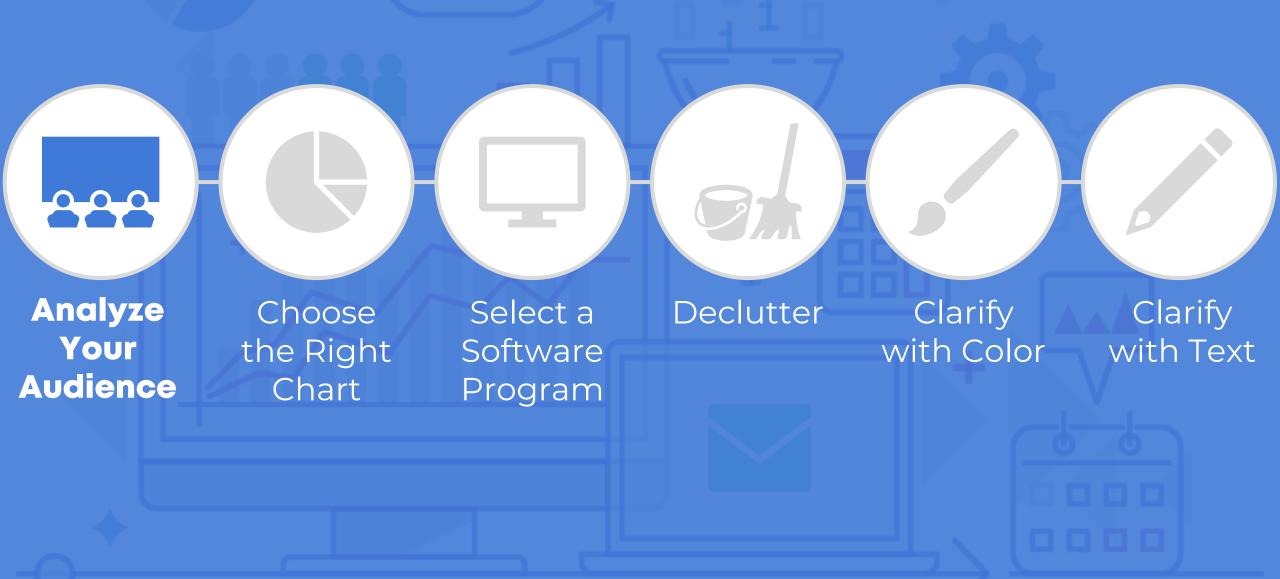
Take Notes!

- Add icons to increase memorability.
- Try a hex map to avoid the Alaska Effect.
- Avoid ALL CAPS because it takes longer to read.

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The Most Important Planning Consideration

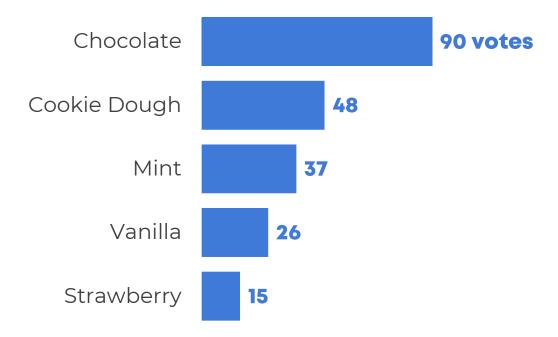
Are Viewers
Expecting
a Story?

Traditional

Traditional

Storytelling

Figure 2. Ice cream flavor preferences based on 2018 survey of 216 elementary school students



Traditional

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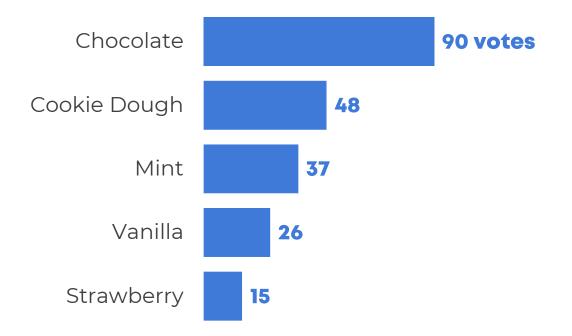
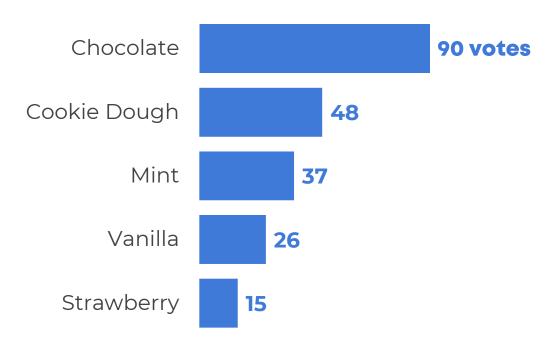


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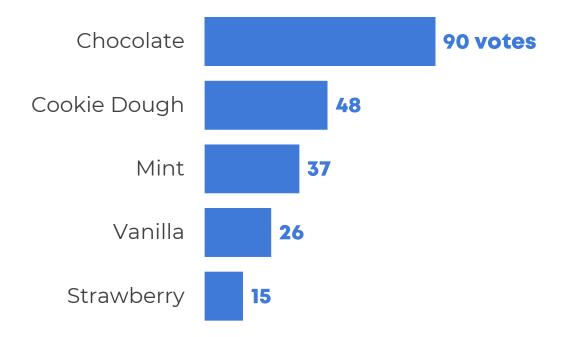
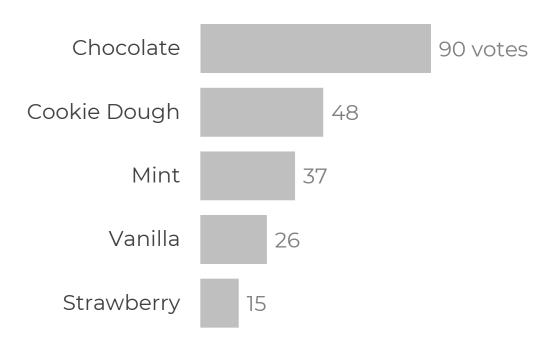


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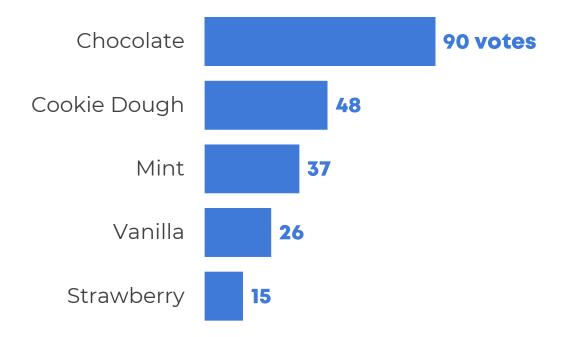
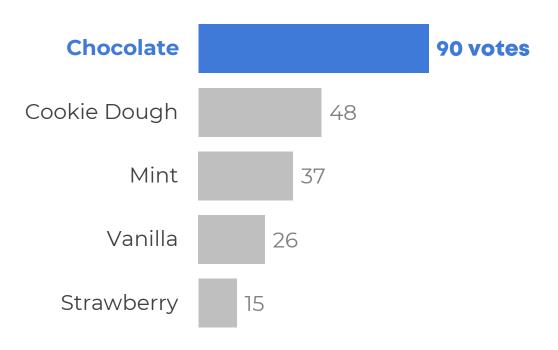
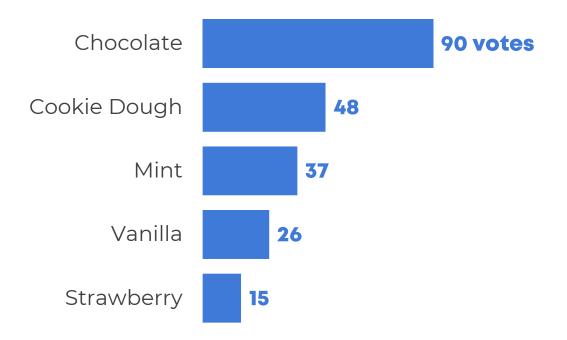


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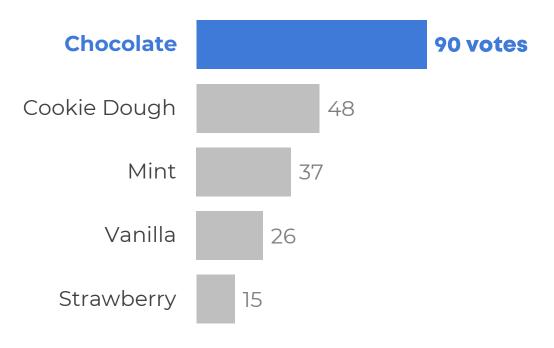
Traditional

Figure 2. Ice cream flavor preferences based on 2018 survey of 216 elementary school students



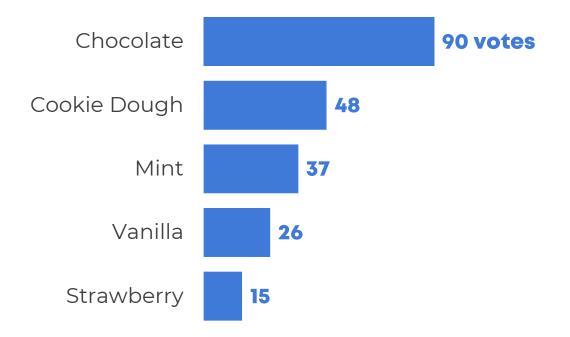
Storytelling

Chocolate was the most popular ice cream flavor among the 216 students who voted in the survey



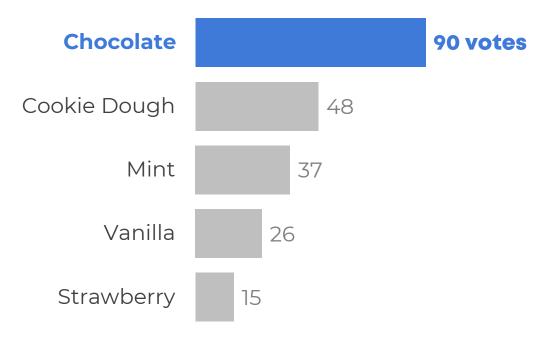
Traditional

Figure 2. Ice cream flavor preferences based on 2018 survey of 216 elementary school students



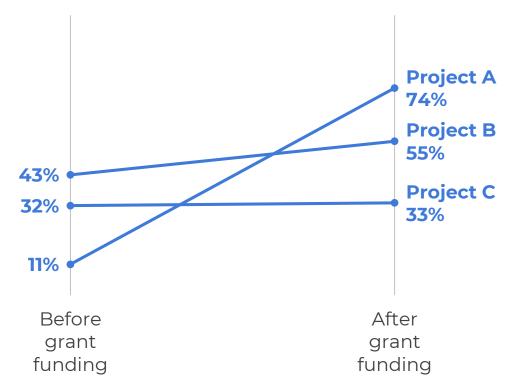
Storytelling

Chocolate was the most popular ice cream flavor among the 216 students who voted in the survey



Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding



Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding

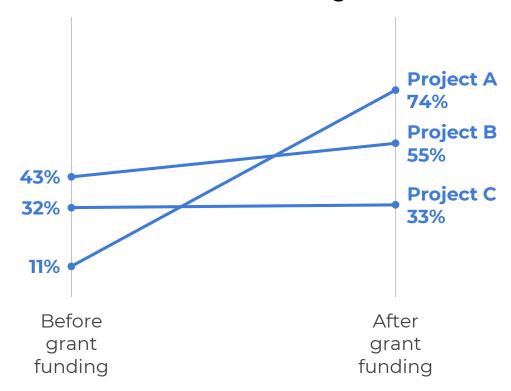
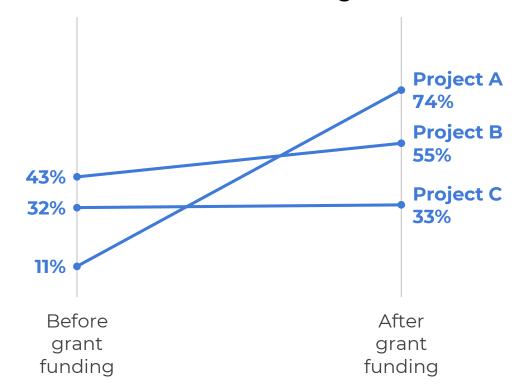


Figure 2. Project Results Before and After the Four-Year Grant Funding



Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding

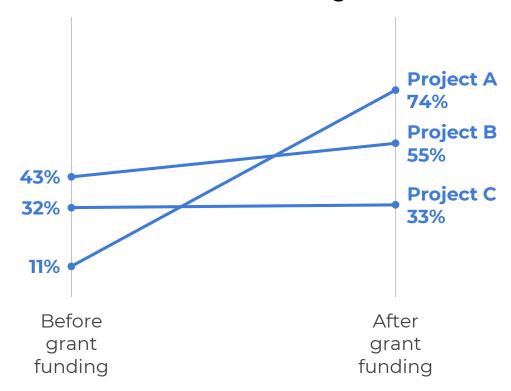
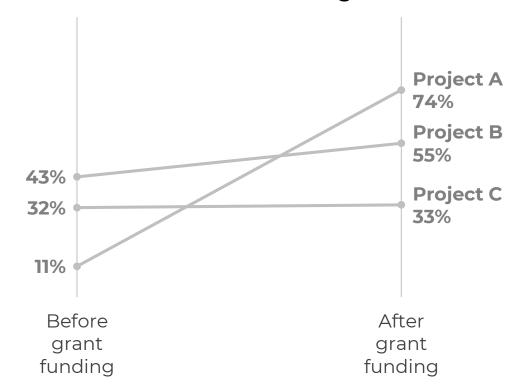


Figure 2. Project Results Before and After the Four-Year Grant Funding



Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding

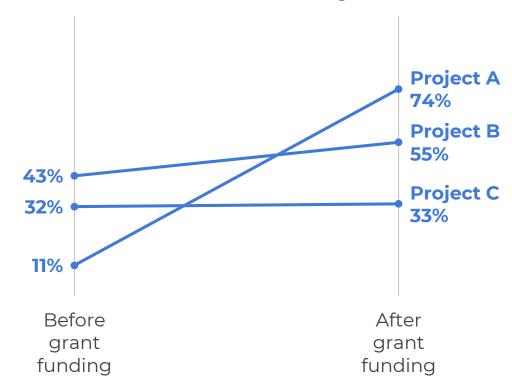
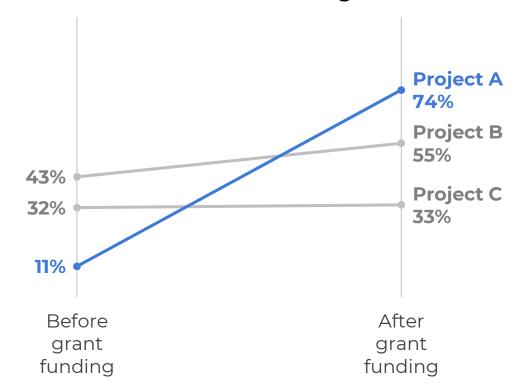
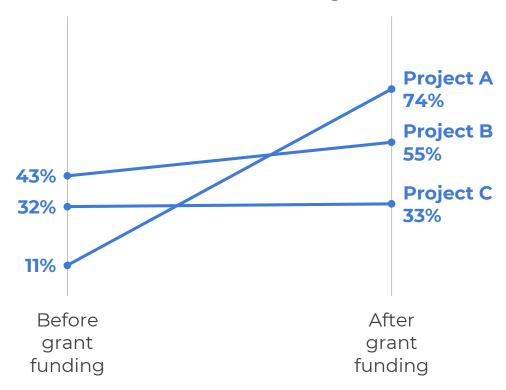


Figure 2. Project Results Before and After the Four-Year Grant Funding



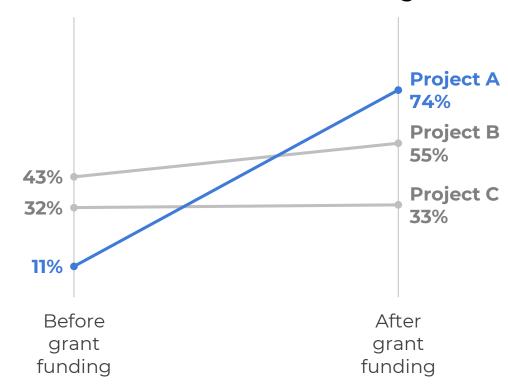
Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding



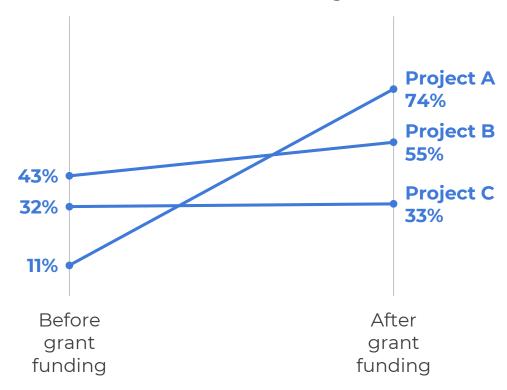
Storytelling

Project A Improved the Most After the Four-Year Grant Funding



Traditional

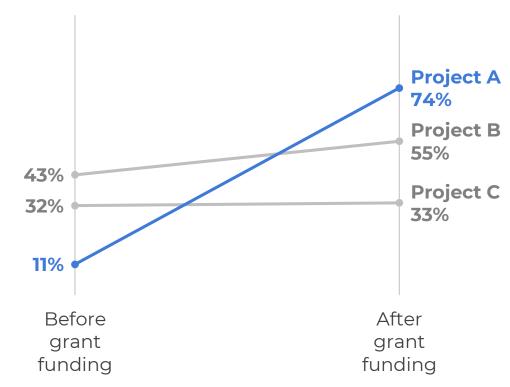
Figure 2. Project Results Before and After the Four-Year Grant Funding



Storytelling

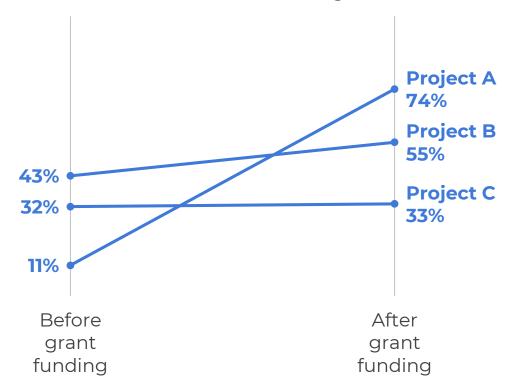
Project A Improved the Most

After the Four-Year Grant Funding



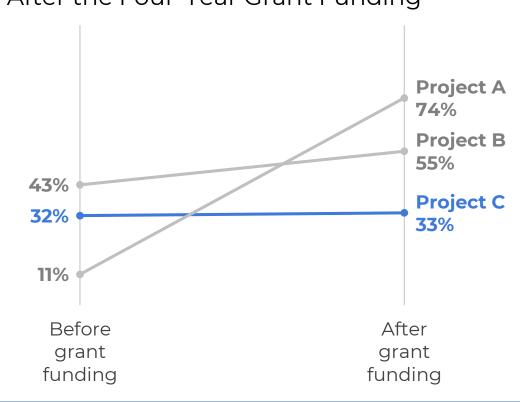
Traditional

Figure 2. Project Results Before and After the Four-Year Grant Funding



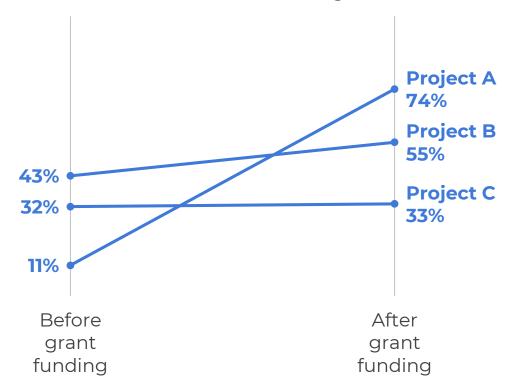
Storytelling

Project C Remained the SameAfter the Four-Year Grant Funding



Traditional

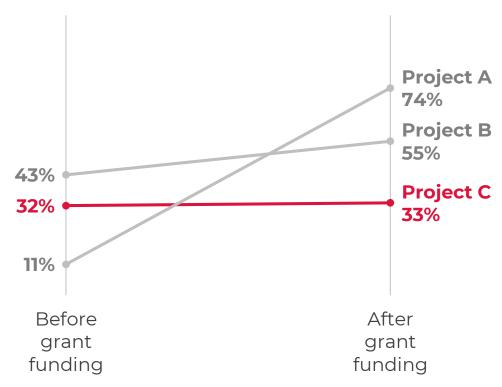
Figure 2. Project Results Before and After the Four-Year Grant Funding



Storytelling

Project C Remained the Same

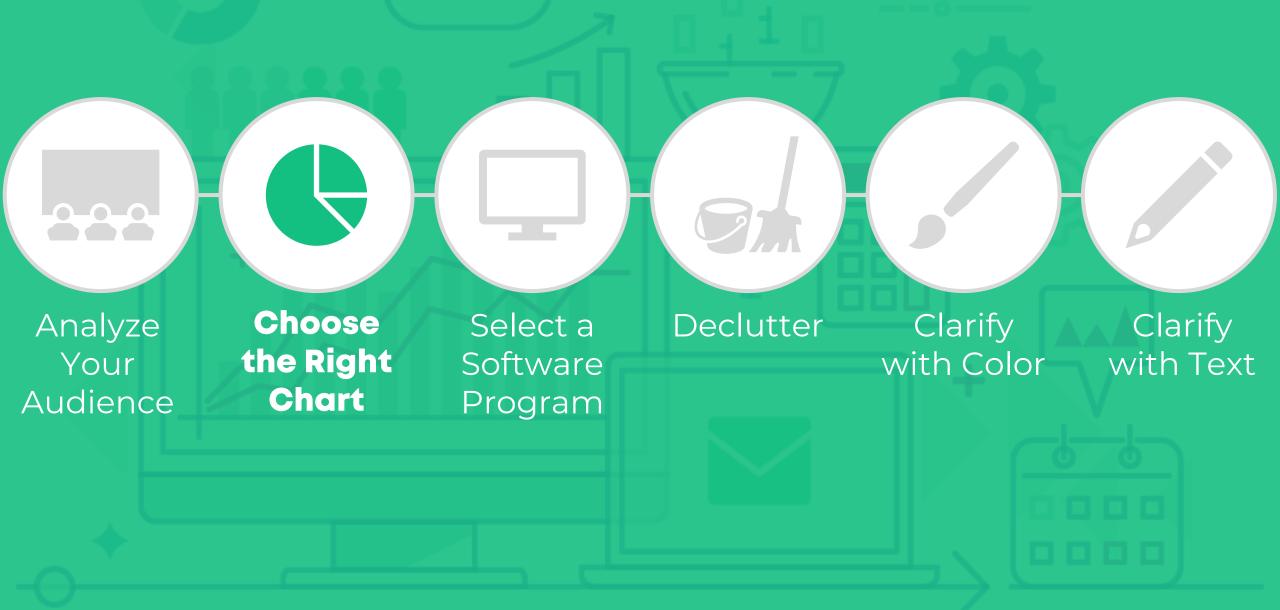
After the Four-Year Grant Funding



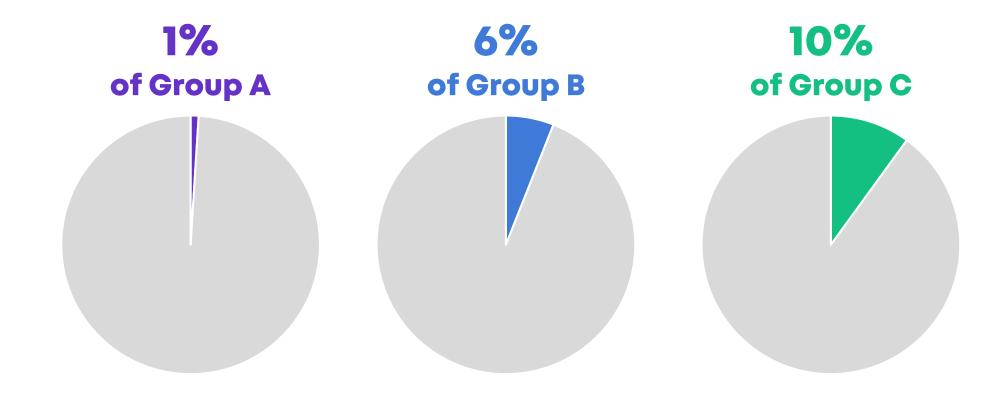
Traditional

- Compliance
- •
- Auditors
- Researchers/research
- Academia
- Analysts
- Supervisors
- Technical
- Insiders
- "Your people"

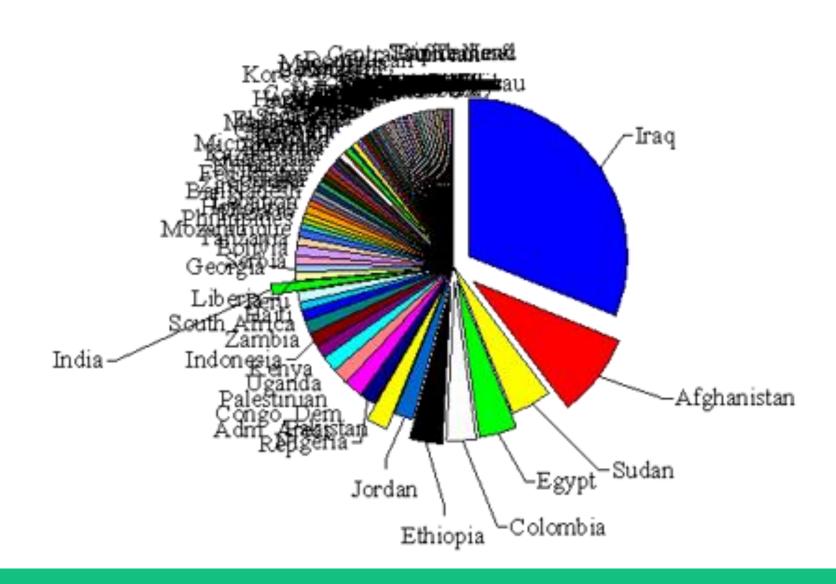
- Funders
- Boards
- Program managers
- Government (state and Federal)
- Direct care staff
- Non-technical
- Outsiders
- Supervisory/Board
- PR/communications
- External
- Media/journalists



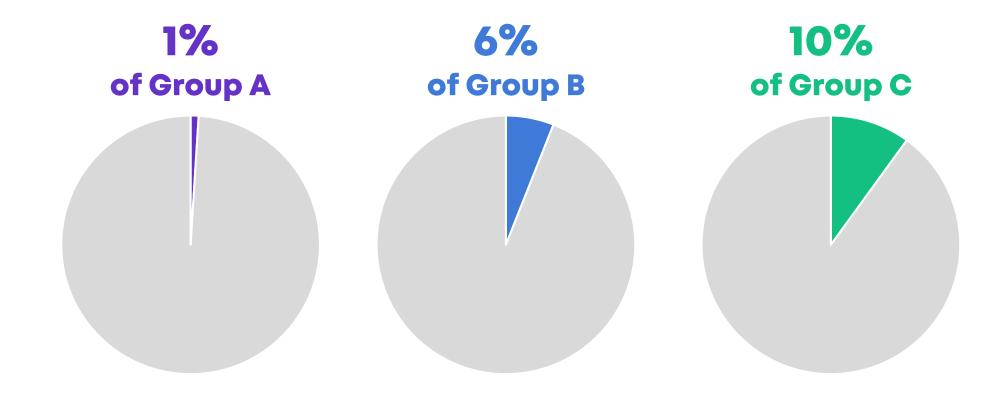
Pies



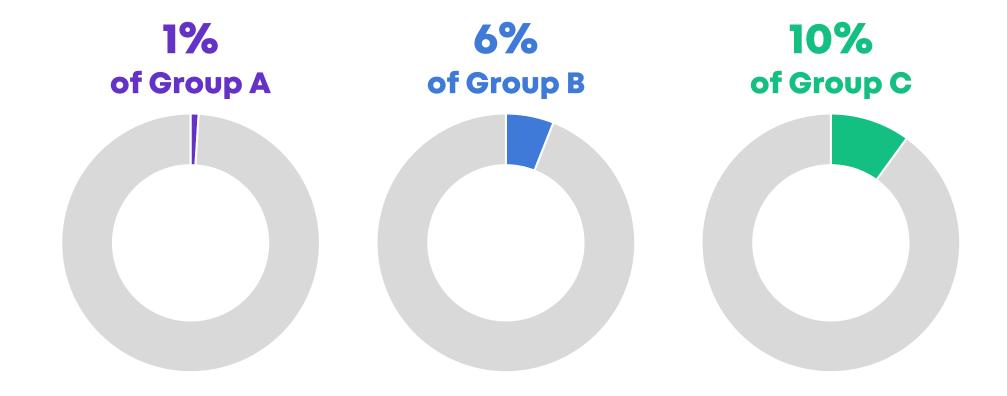
Pies



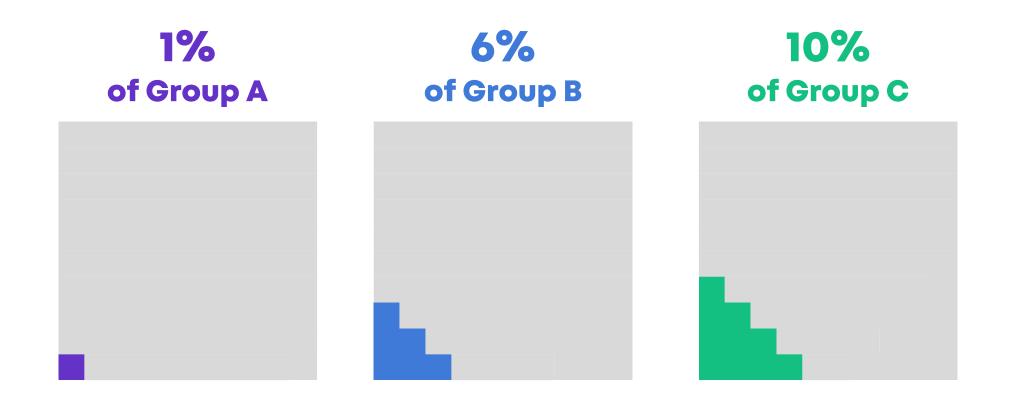
Pies



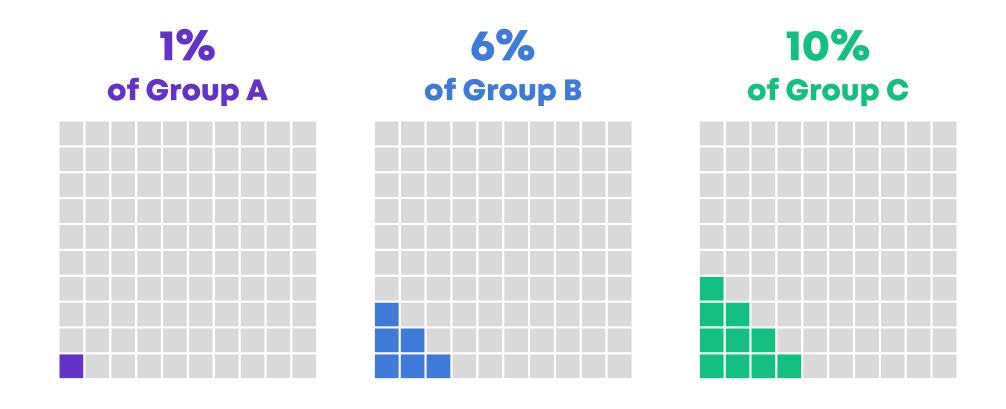
Donuts



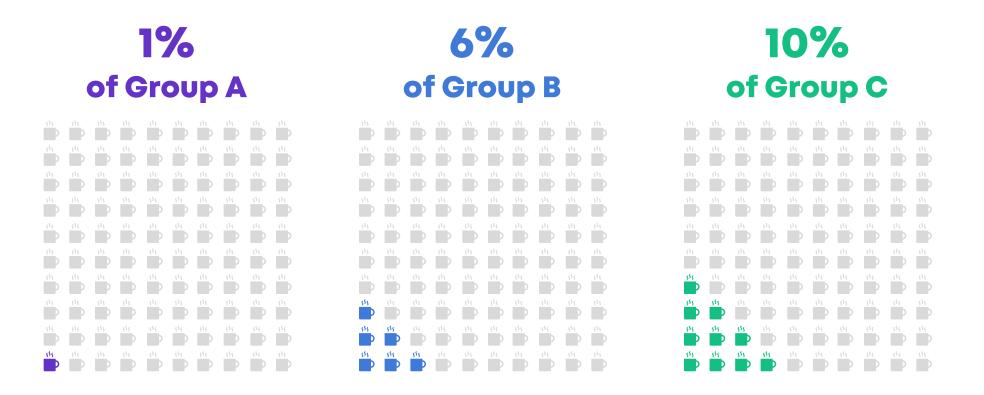
Square Pies



Waffles



Icon Arrays



Icon Arrays





Mail wars If the U.S. Postal Service is losing money, why is it cutting these deals? BUSINESS



Reading into the resistance Political reflections from both sides of the aisle OUTLOOK



The Washington Post

oes may vary in areas outside metropolitan Washingt

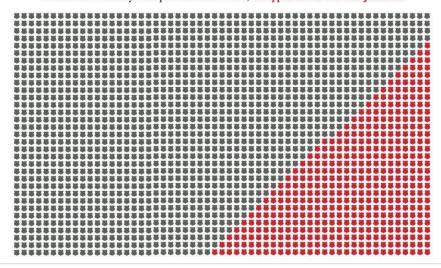
Mostly sunny 84/71 • Tomorrow: Thunderstorms 80/68 C12

Democracy Dies in Darkness

SUNDAY, AUGUST 6, 2017 - \$3.50

FIRED/REHIRED

Since 2006, at least 1,881 officers have been dismissed from 37 of the nation's largest police departments for behavior that betrayed the public's trust. Of those, 451 appealed and won their jobs back.



Afghan allies defend general

TRUMP'S CRITICISM ALARMS KABUL

Strategy plan delayed as country's turmoil mounts

BY PAMELA CONSTABLE

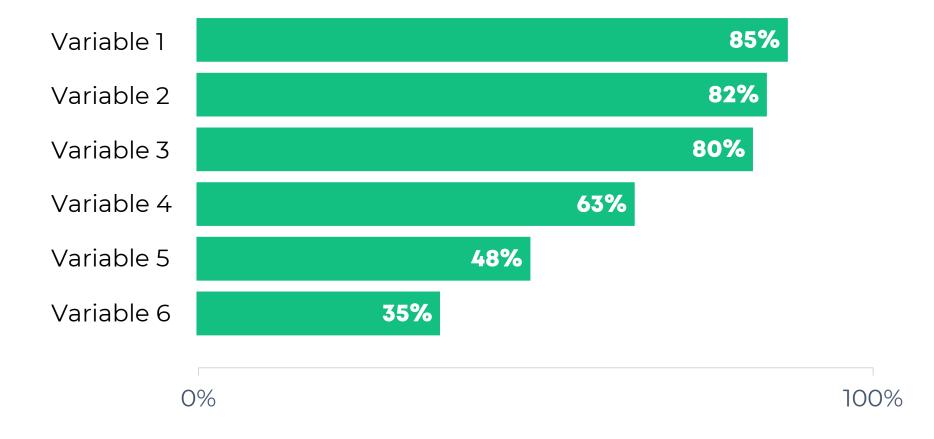
KABUL — Afghans are alarmed by widespread reports that President Trump has threatened to fire Gen. John W. Nicholson Jr., the highly regarded U.S. military commander in this war-torn country, and that Trump has also delayed choosing a new military and political strategy Afghans have awaited anxiously for the past six month.

Nicholson, 6i, the top U.S. military official in Afghanistan for the bast 16 months, has become the best-known face of Washington here, working closely with Afghan military and civilian officials, and vocally advocating expanded U.S. military engagement, while the faliban and other insurgents continue aggressive attacks across the country.

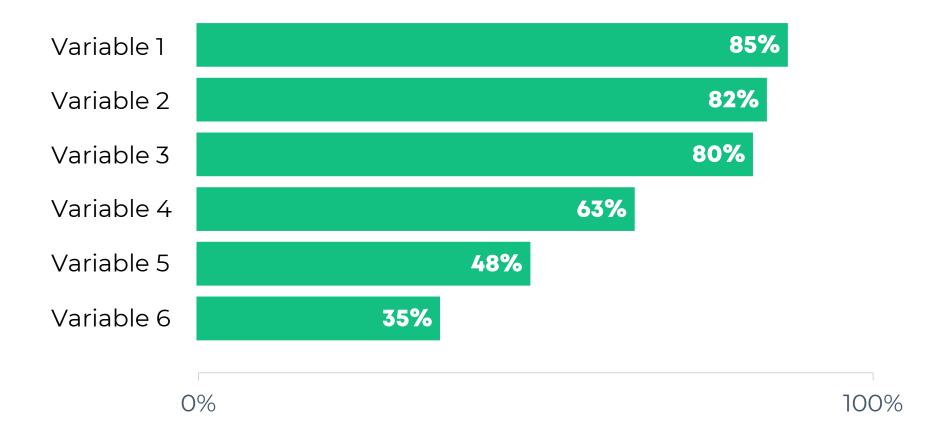
Now, with two U.S. service members killed in the past week

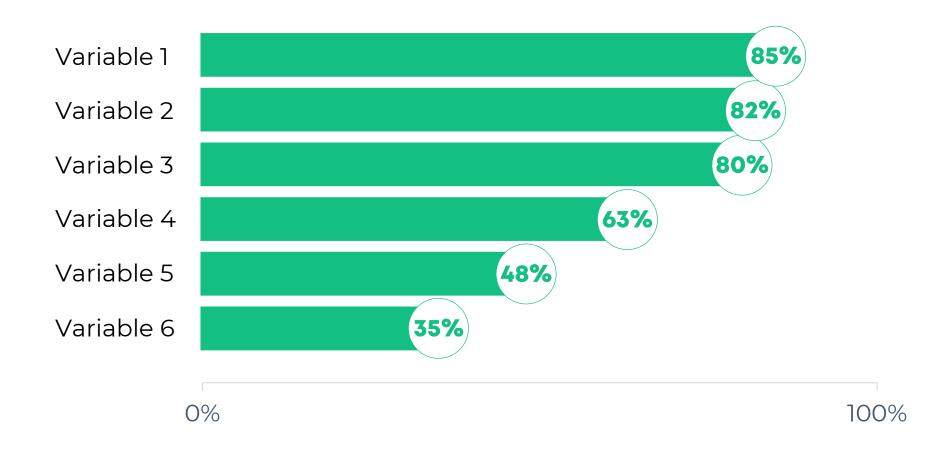
Washington Post, Fired/Rehired, https://www.washingtonpost.com/graphics/2017/investigations/police-fired-rehired/?utm_term=.03ad8d0979fc

Bar

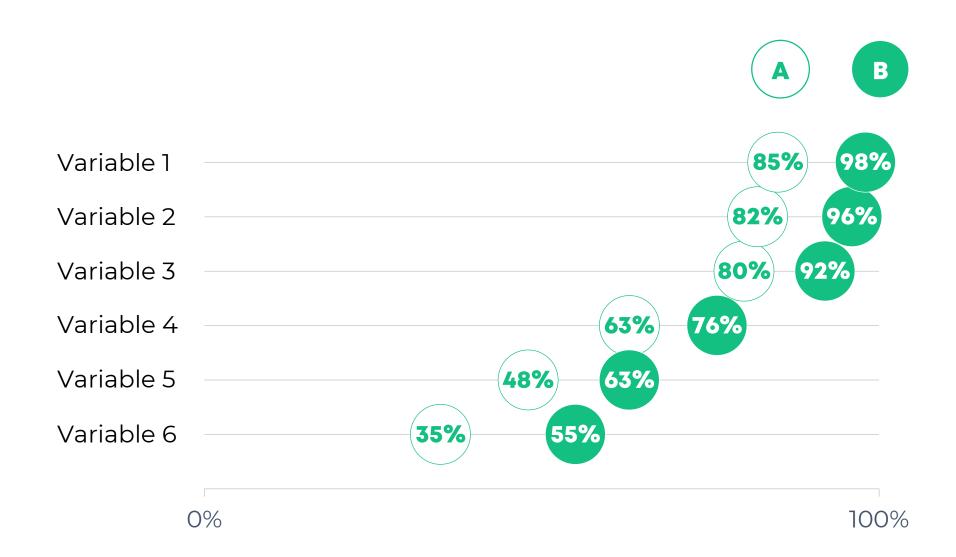


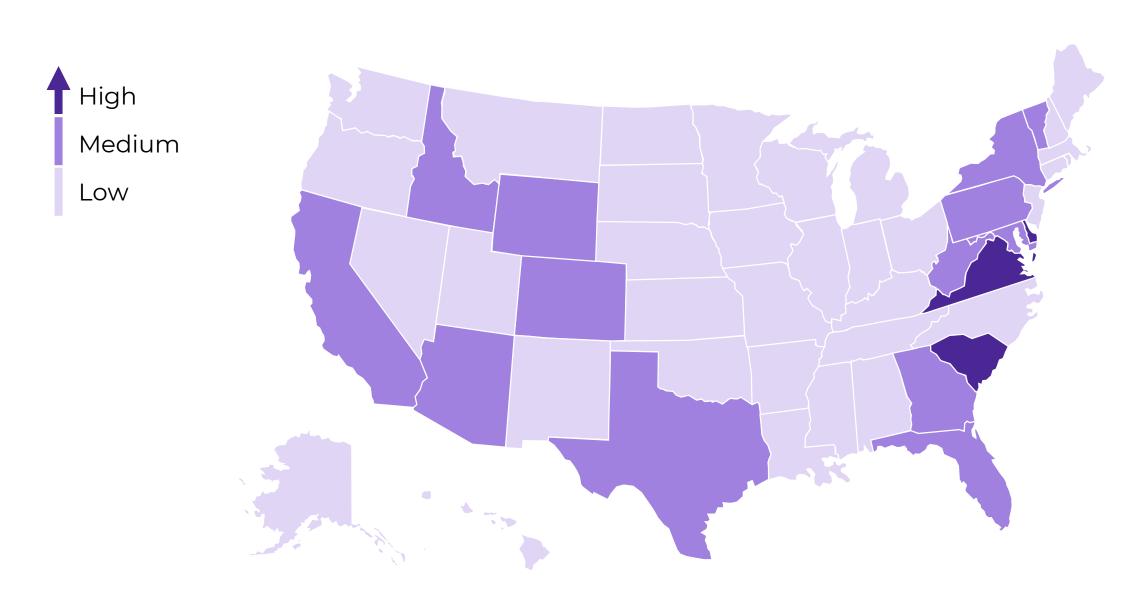


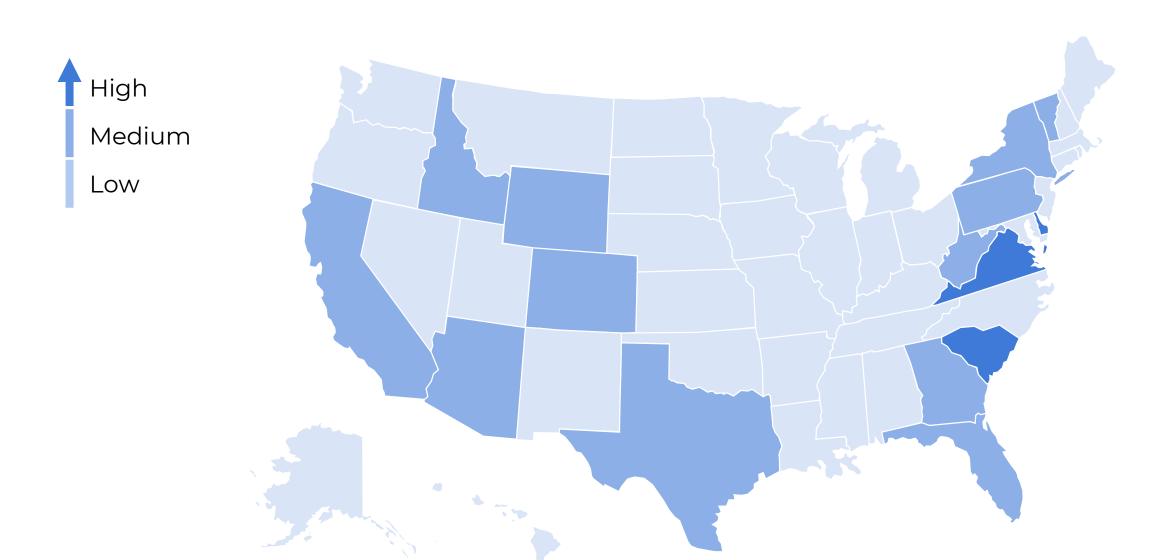


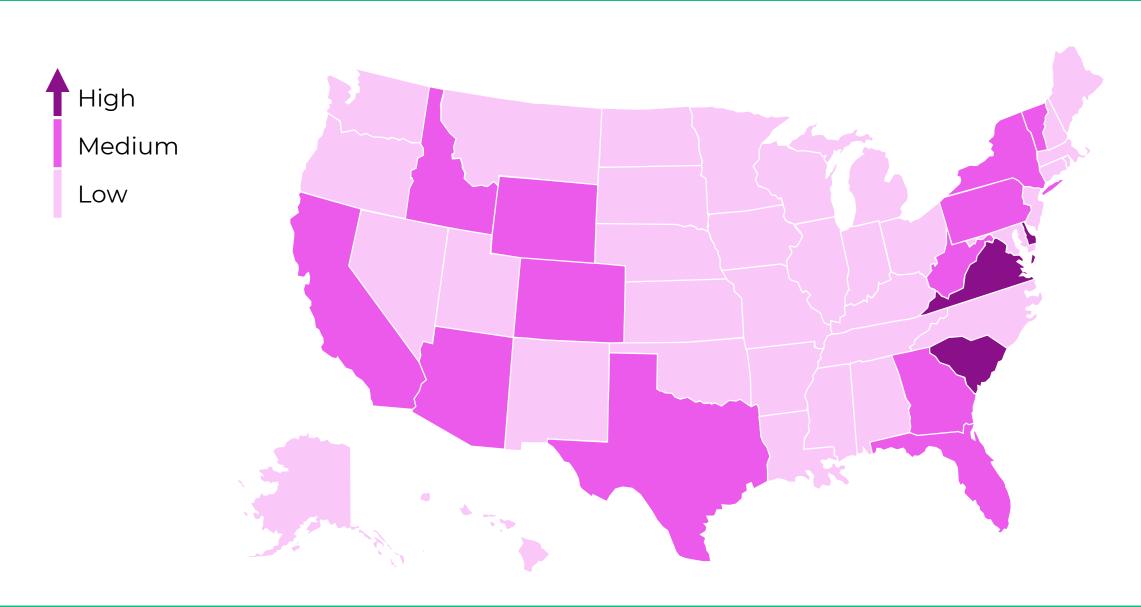


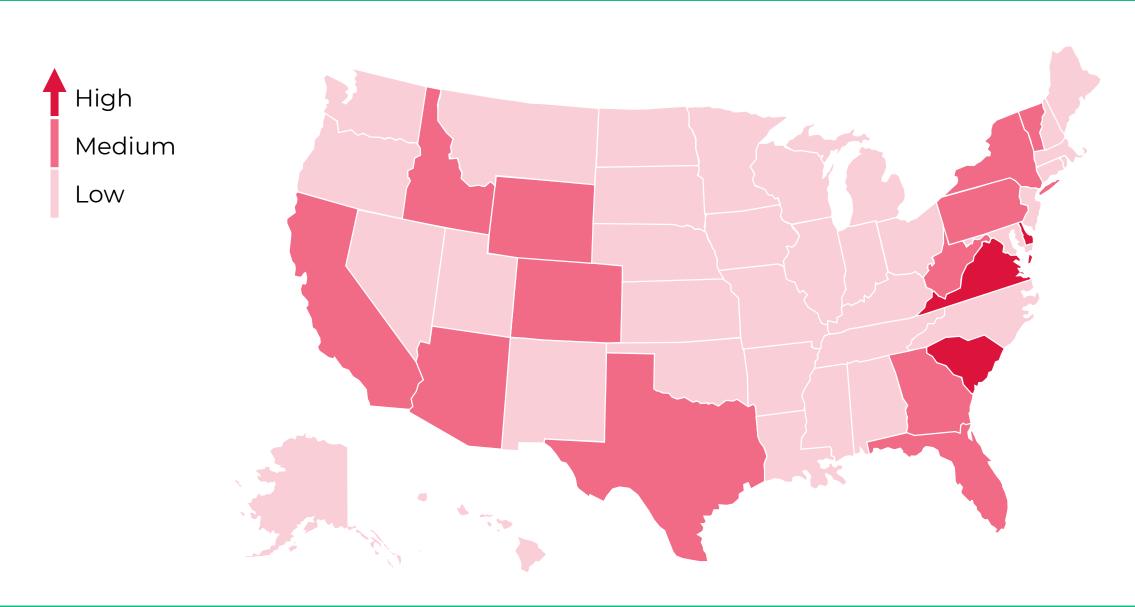


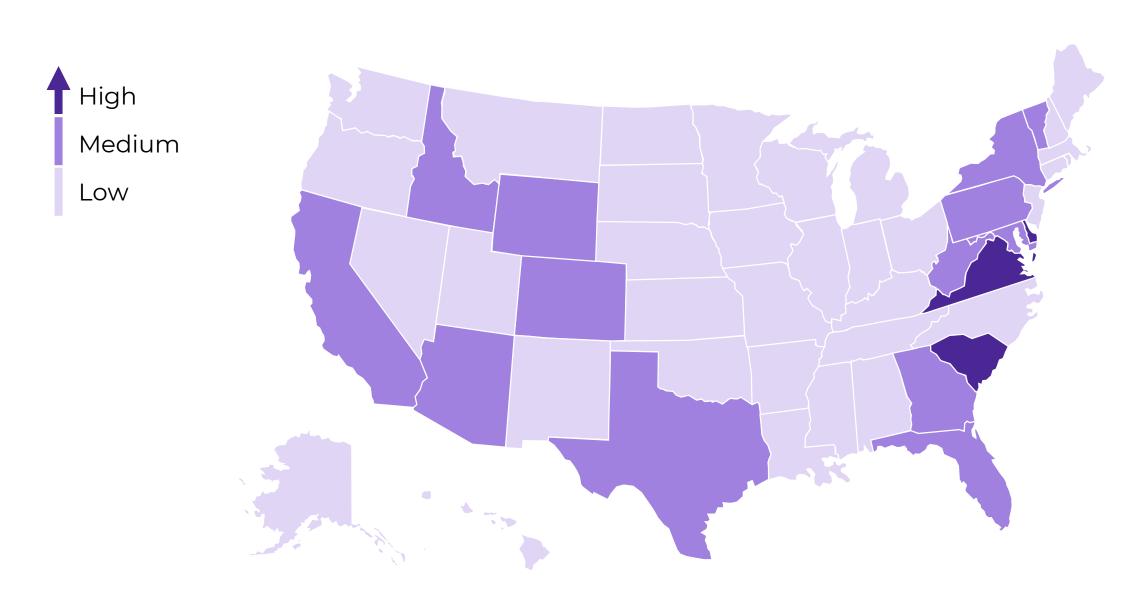


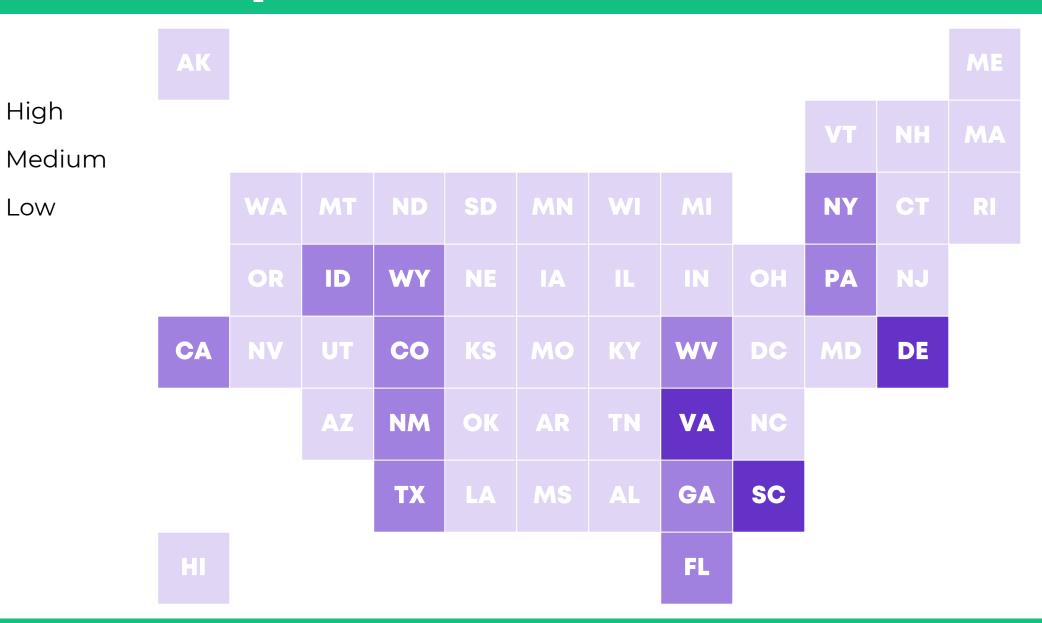




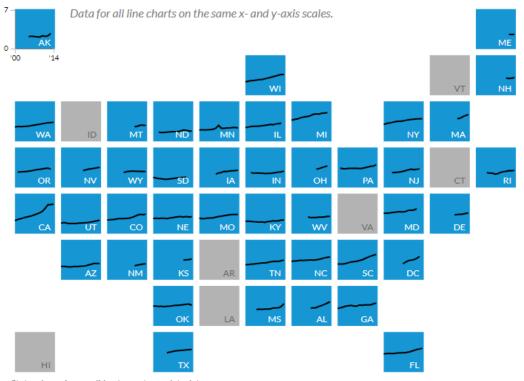








Average Time Served for All Offense Categories



States shown in gray did not report complete data.

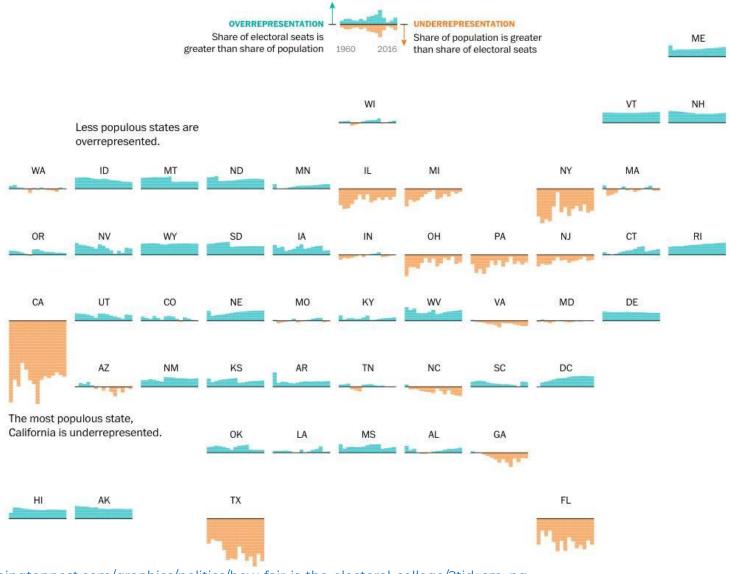
On average, people are spending more time in prison.

These graphs represent a year-end snapshot of the average number of years that people in state prisons have been incarcerated so far. Many will go on to serve considerably more time.

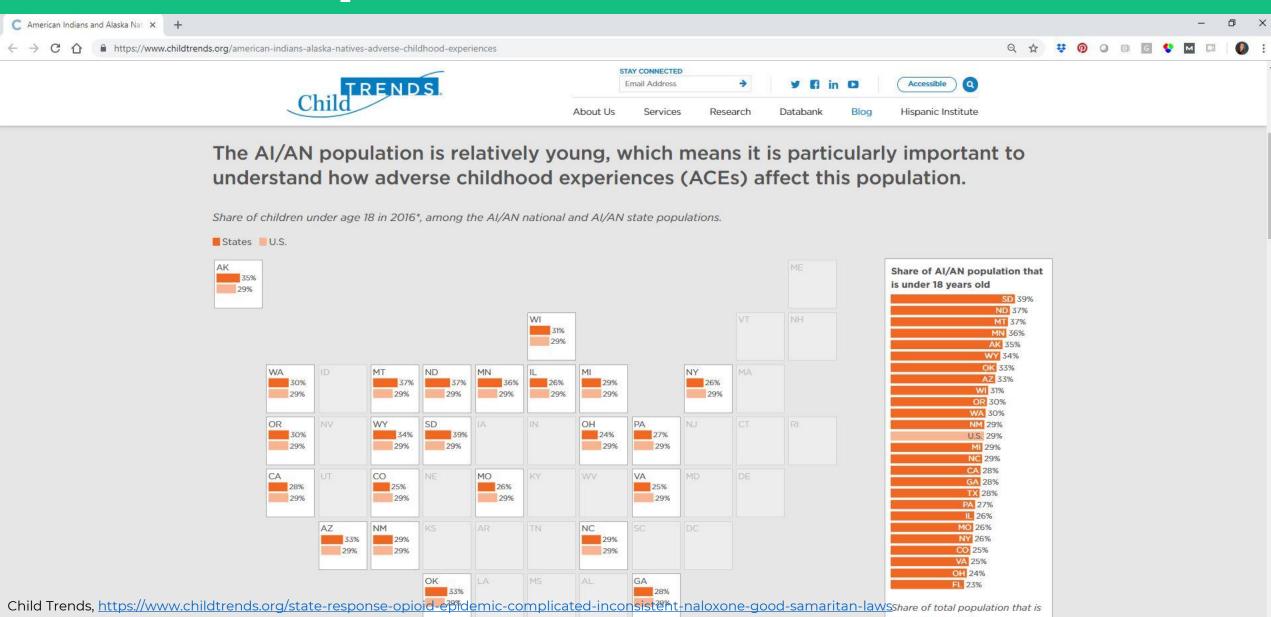
Each state's story is unique, but we found a consistent upward trend in the amount of time people spend in state prisons. Since 2000, the average time served has risen in all 44 states (including the District of Columbia) that reported complete data to the National Corrections Reporting Program.

In some states, this rise began years earlier. But these recent trends suggest that most states are still feeling the effects of policy decisions from the 1980s and '90s that were designed to keep people in prison longer.

Urban Institute, https://apps.urban.org/features/long-prison-terms/trends.html



The Washington Post, https://www.washingtonpost.com/graphics/politics/how-fair-is-the-electoral-college/?tid=sm_pg

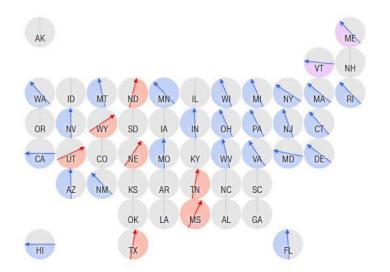




Forecast Map

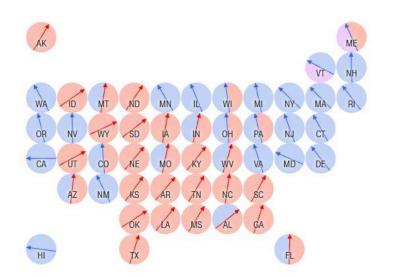
Forecast just for Senate races on the ballot in 2018

Each race is shaded by who is favored (blue for Democrat, purple for independent and red for Republican) with an arrow indicating how much that side is favored. An arrow pointing to the left or right means a candidate is heavily favored while an upward arrow means a very close race.



Forecast full Senate makeup after 2018 elections

Each state has two halves, one for each senator who represents the state. The arrow tells you how Democratic or Republican the state is expected to be based on an average of the forecast win margin (for seats up this year) and the overall state partisanship for other seats.



CNN, https://edition.cnn.com/election/2018/forecast/senate



WHERE TO FIND THE GOOD LIFE

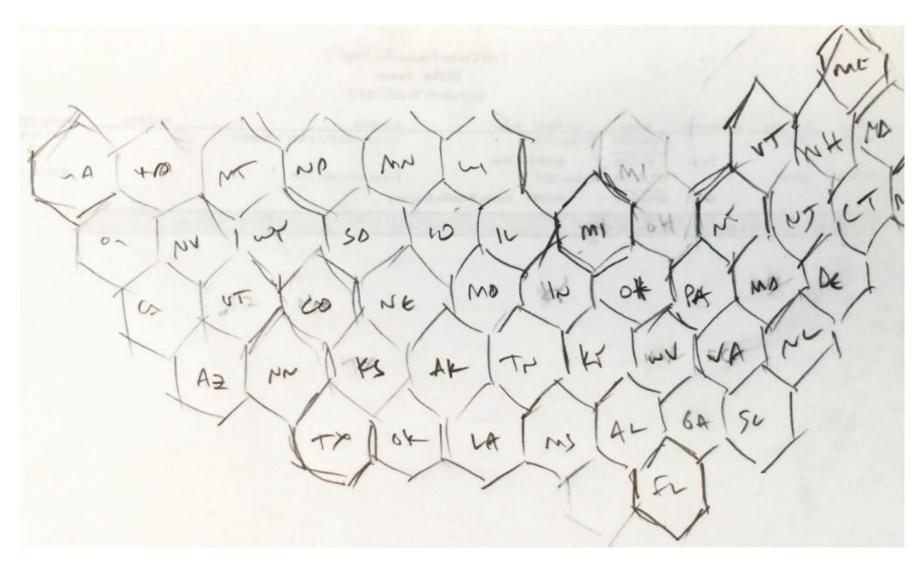
How happy, healthy, and secure are Americans? Gallup asked half a million adults across the United States to rate their well-being from one to 100 across five factors: daily life, physical health, location, finances, and companionship. Combined, these measurements determined the states and cities with the highest and lowest well-being.

Wednesday, Oct. 18, 2017



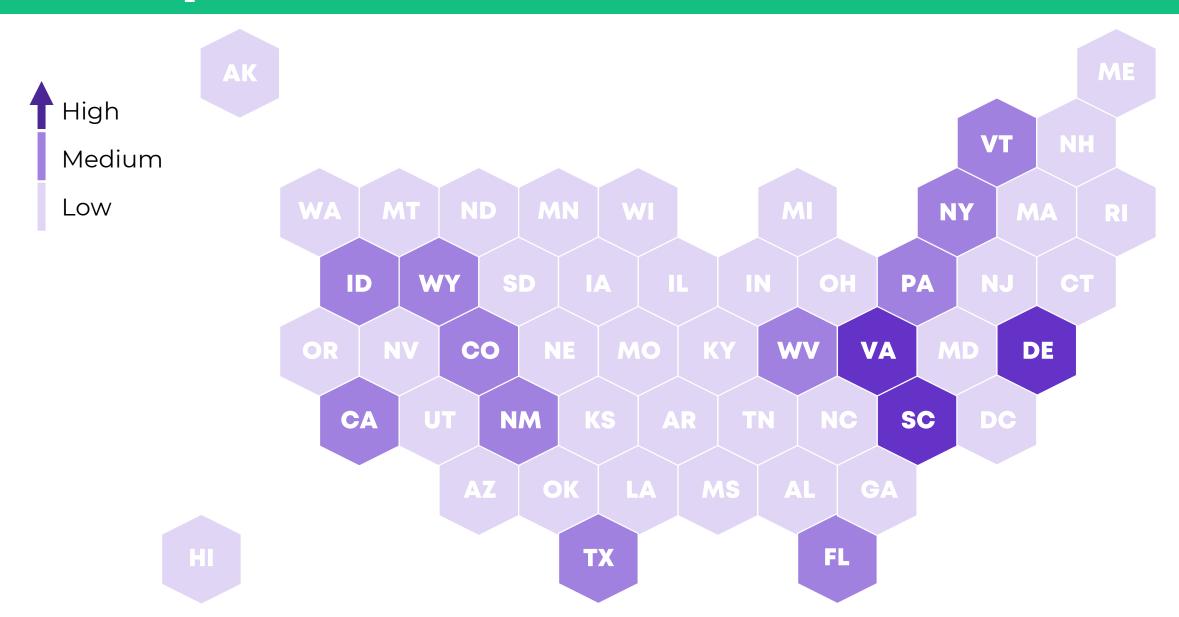
National Geographic, https://www.nationalgeographic.com/magazine*/2018/fil/where-fo-find-the-good-life/

Hex Maps

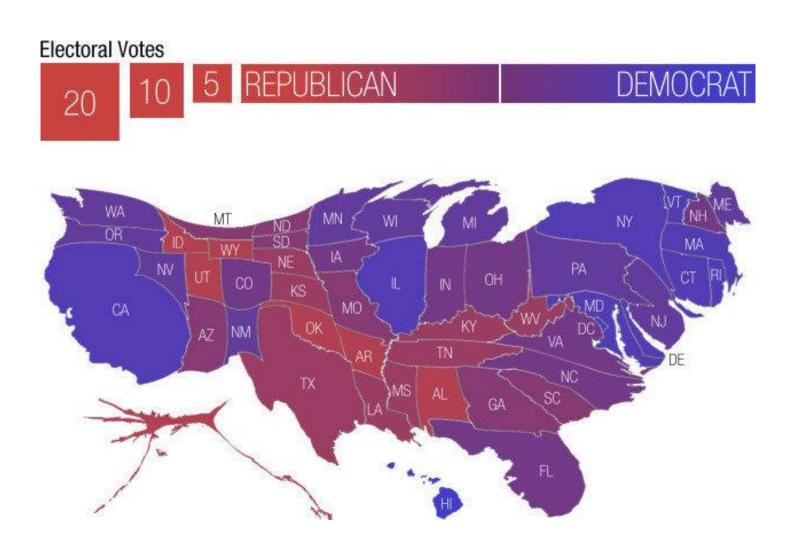


NPR, Danny BeDellus, http://blog.apps.npr.org/2015/05/11/hex-tile-maps.html

Hex Maps

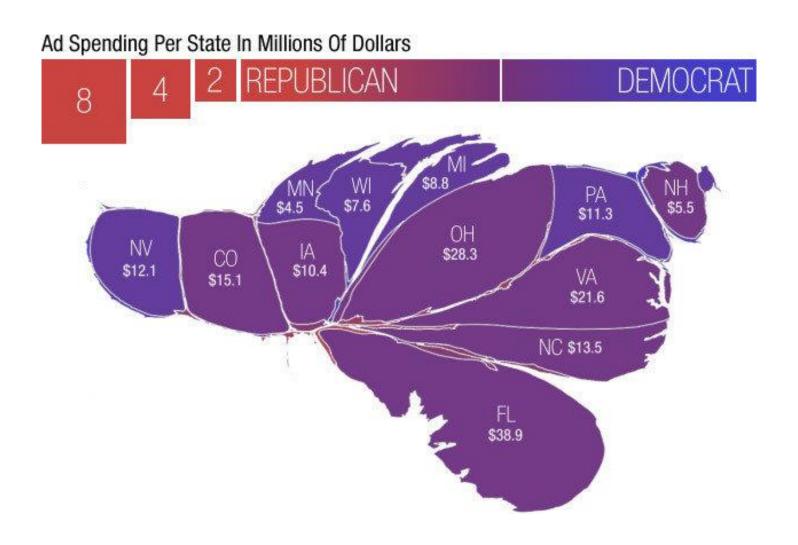


Cartograms



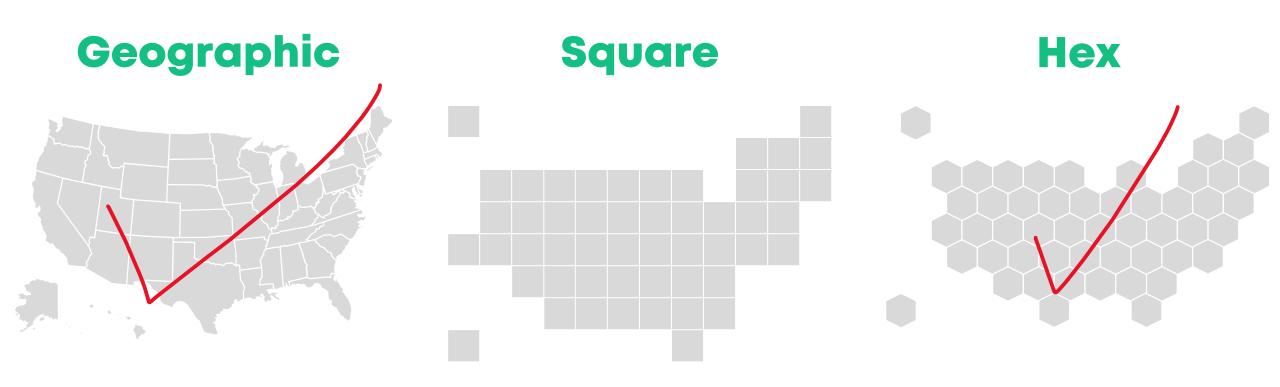
NPR, https://www.npr.org/sections/itsallpolitics/2012/11/01/163632378/a-campaign-map-morphed-by-money

Cartograms

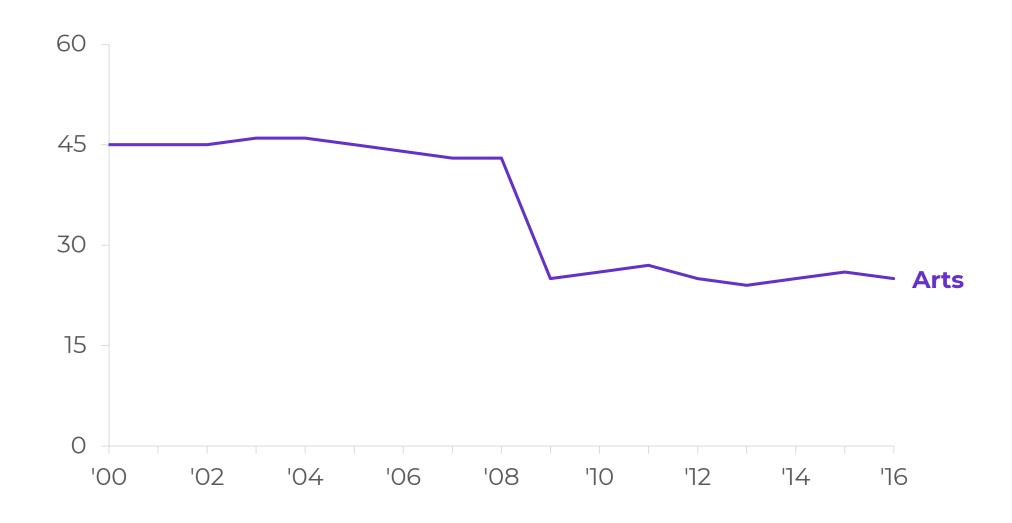


NPR, https://www.npr.org/sections/itsallpolitics/2012/11/01/163632378/a-campaign-map-morphed-by-money

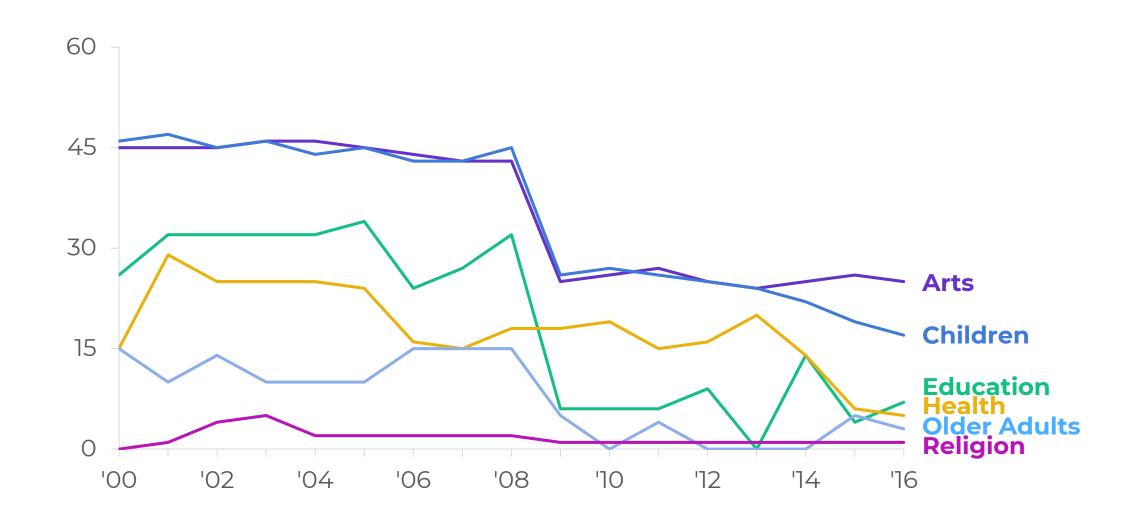
Which Map?



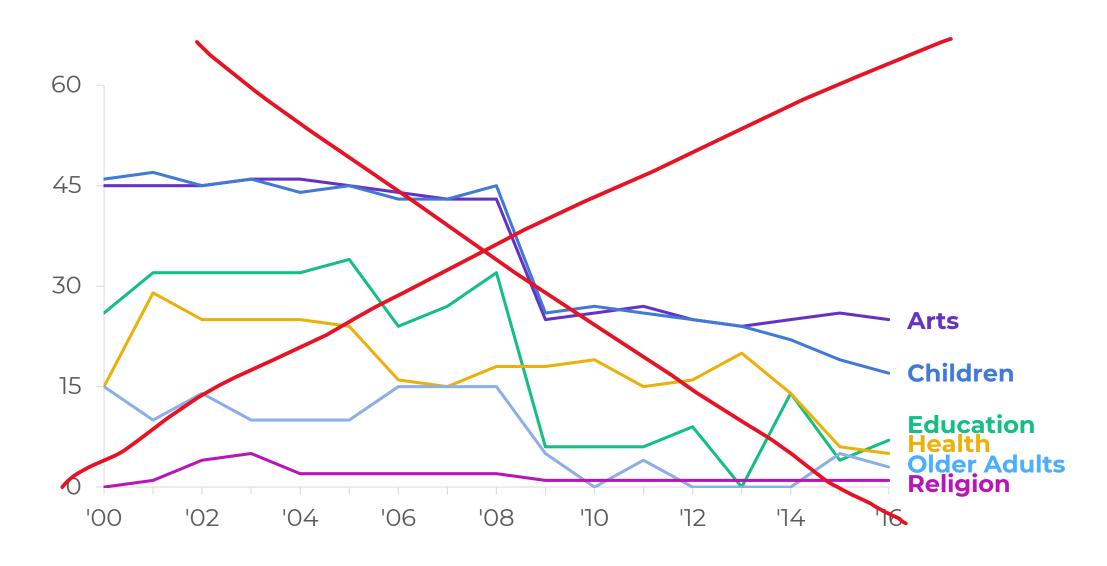
Line



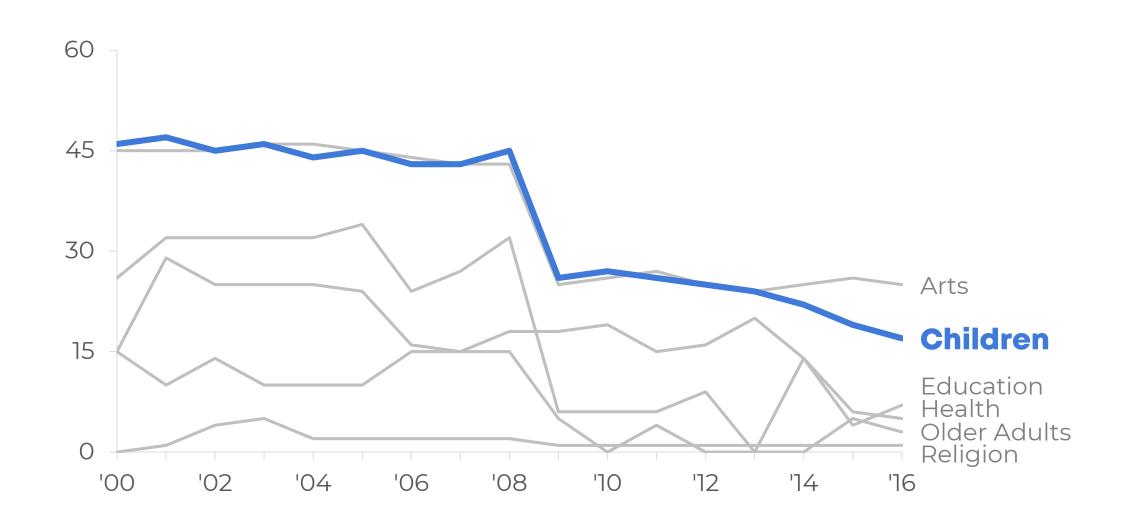
Spaghetti Line...



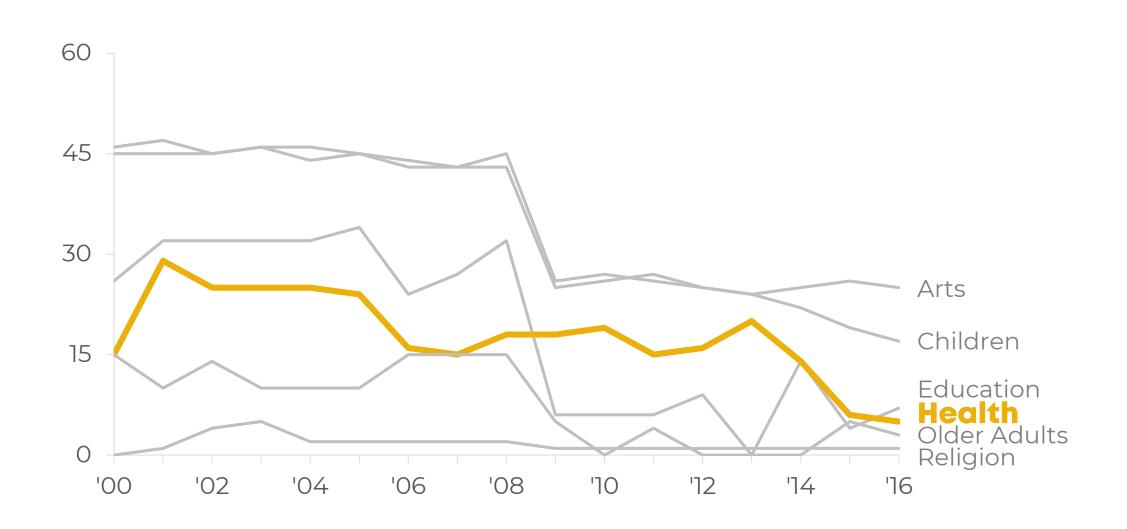
Spaghetti Line...



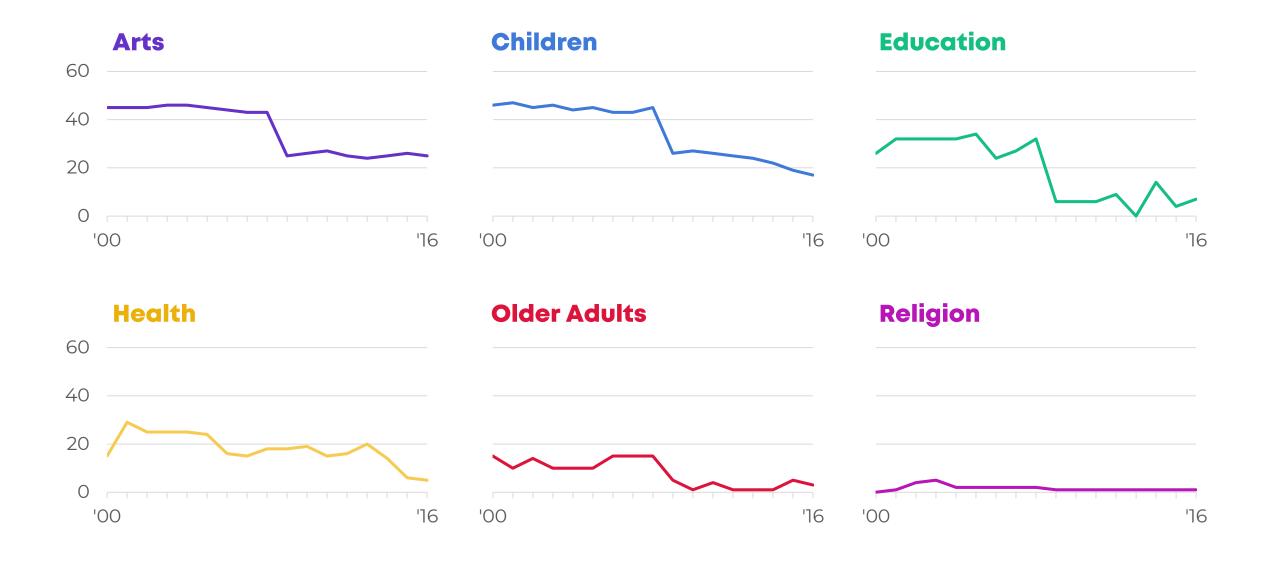
...with Highlighting



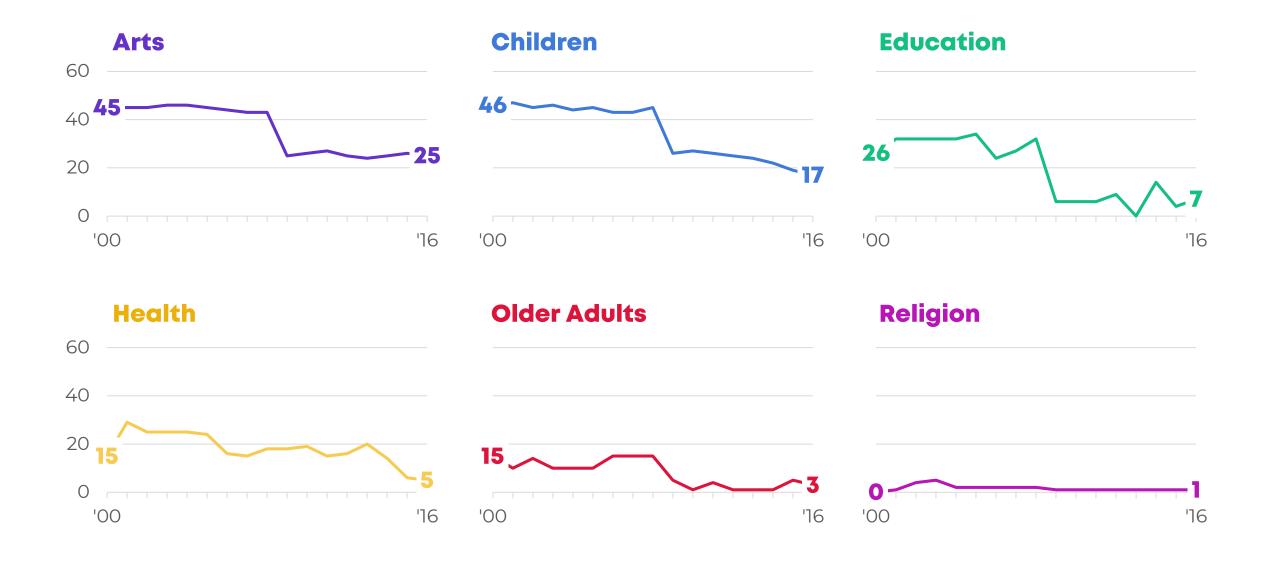
...with Highlighting



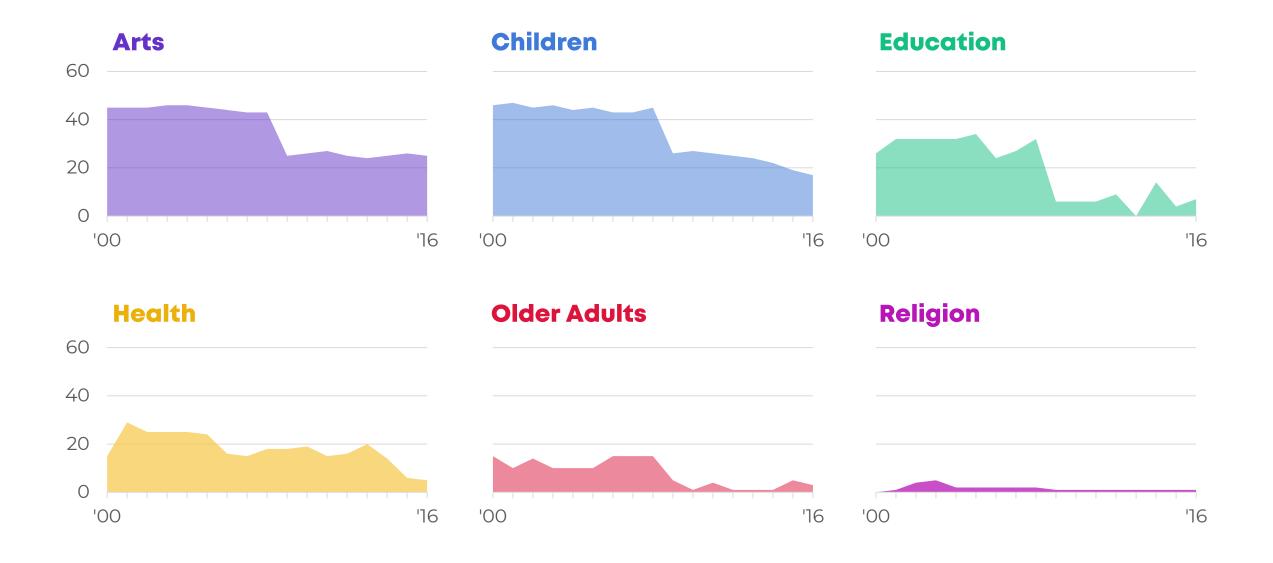
...into Small Multiples



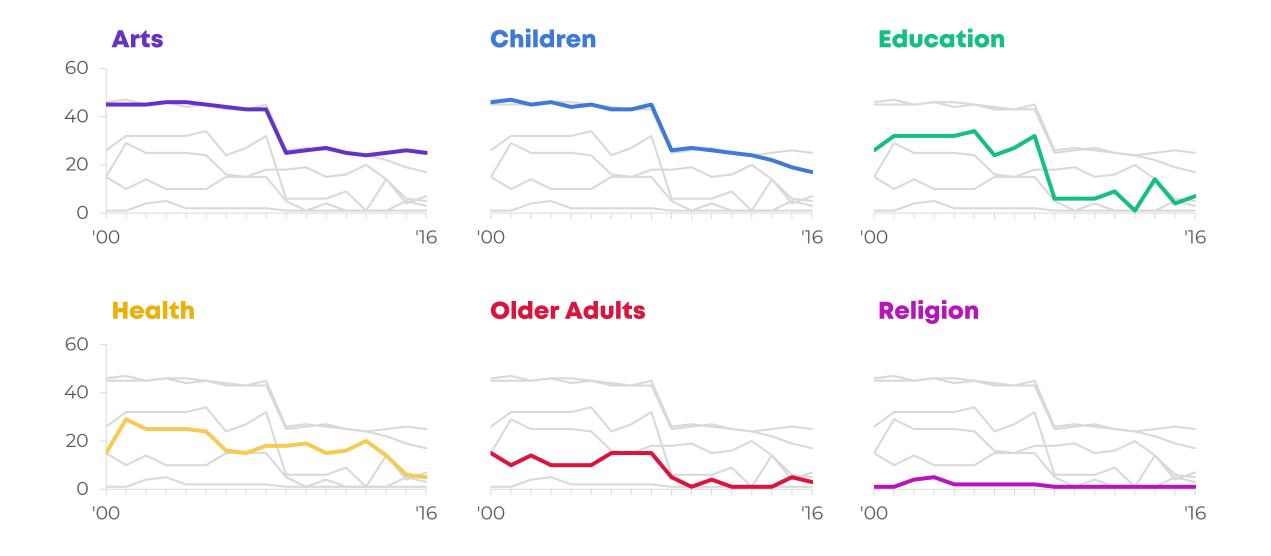
...into Small Multiples



...into Small Multiples

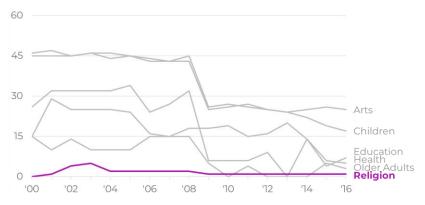


...into Small Multiples with Highlighting

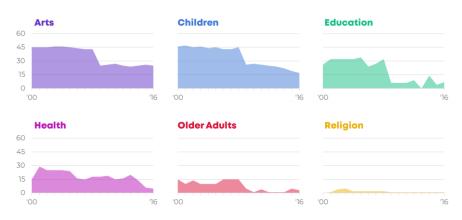


3+ Points in Time

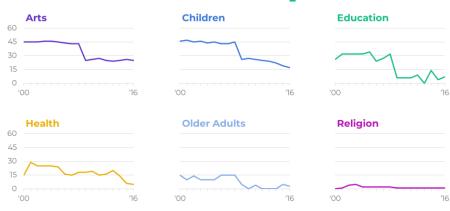
Highlighting



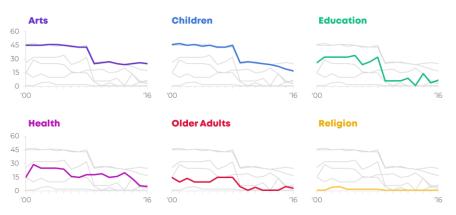
Small Multiples Area



Small Multiples



Small Multiples with Highlighting

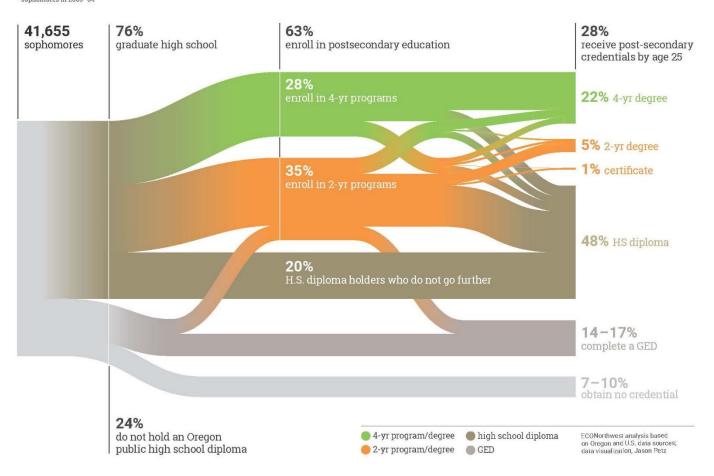


Sankey Diagrams

The Education Pathway

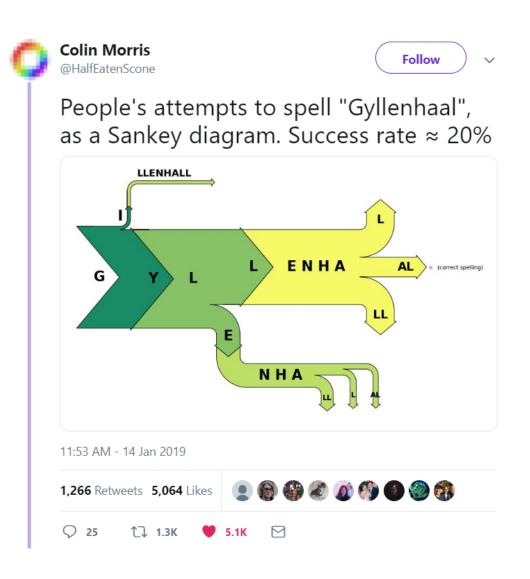


Where the Oregon public high school class of 2006* went over the next nine years *sophomores in 2003-04

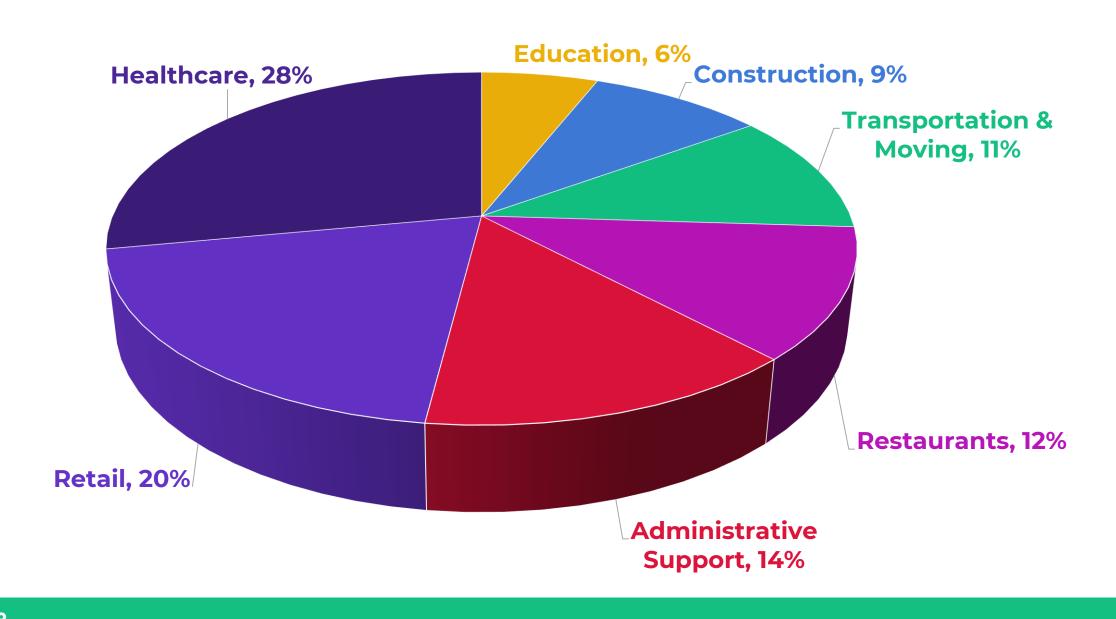


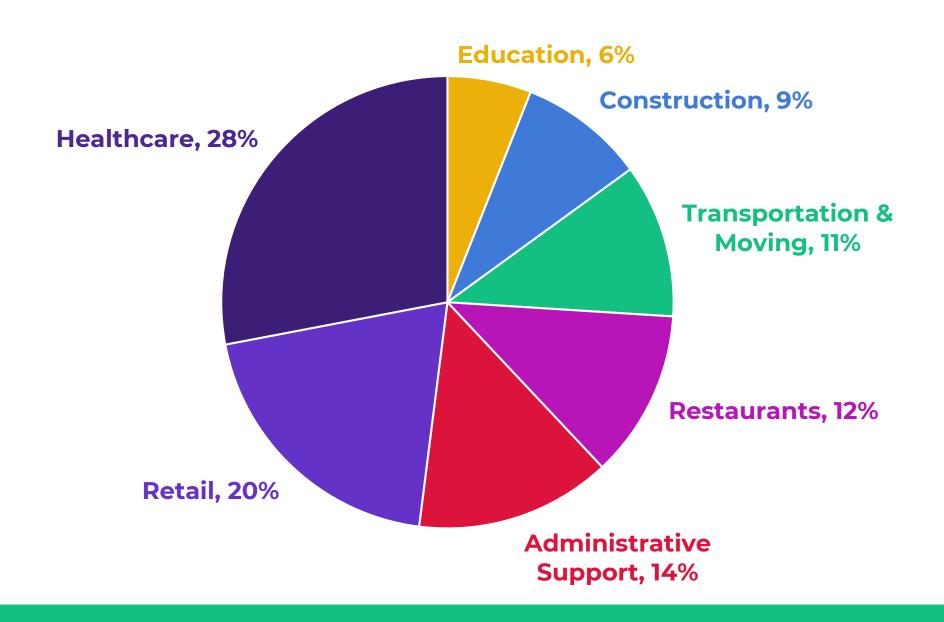
Oregon Learns, http://oregonlearns.org/learn-more/redesign-issues/

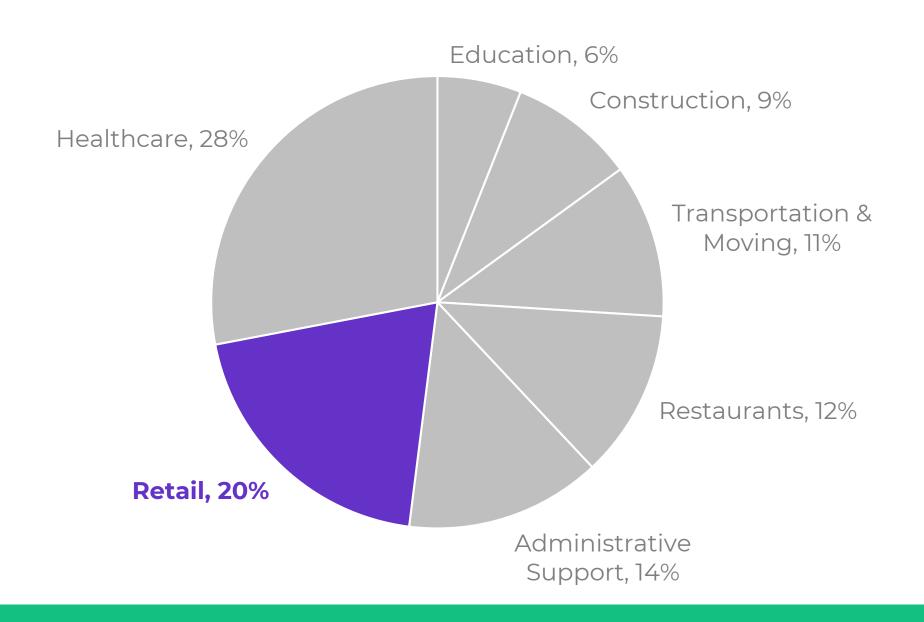
Sankey Diagrams

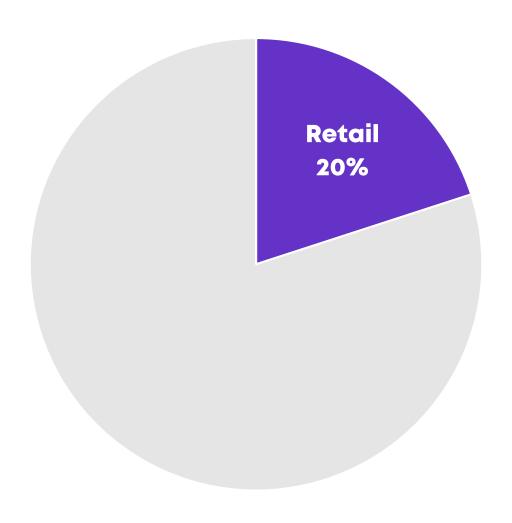


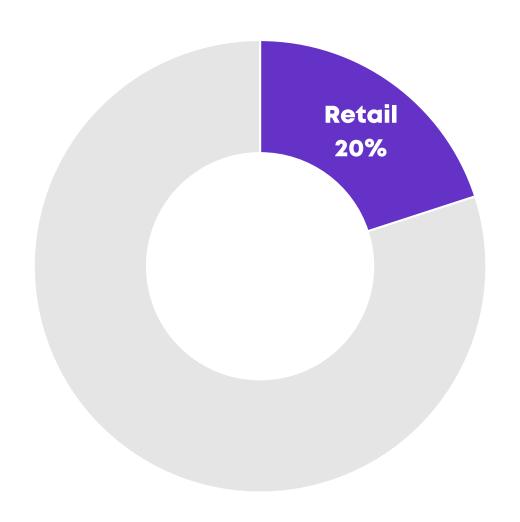
Colin Morris, @HalfEatenScone, https://twitter.com/HalfEatenScone/status/1084855992154640388

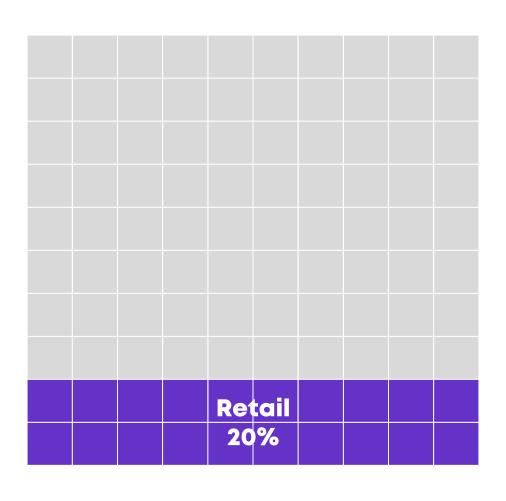




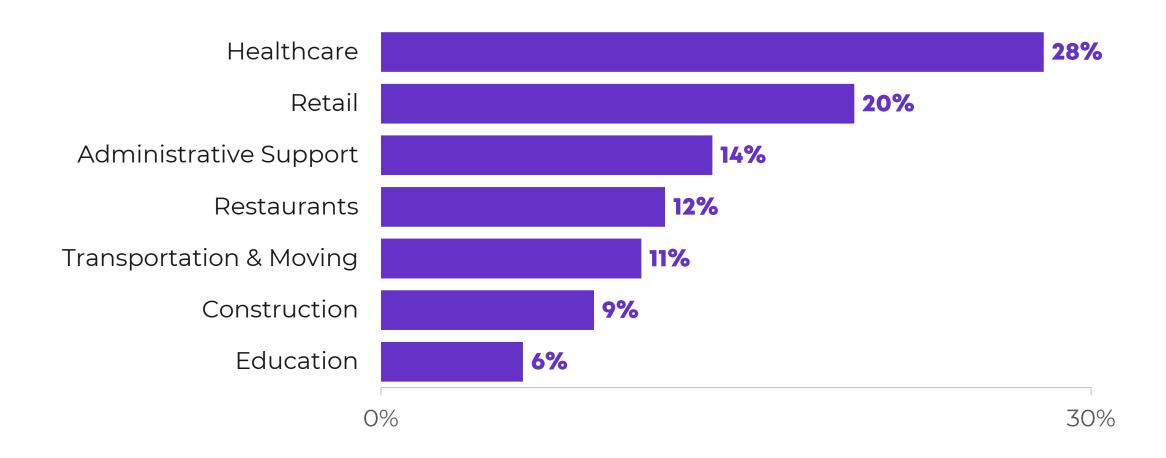


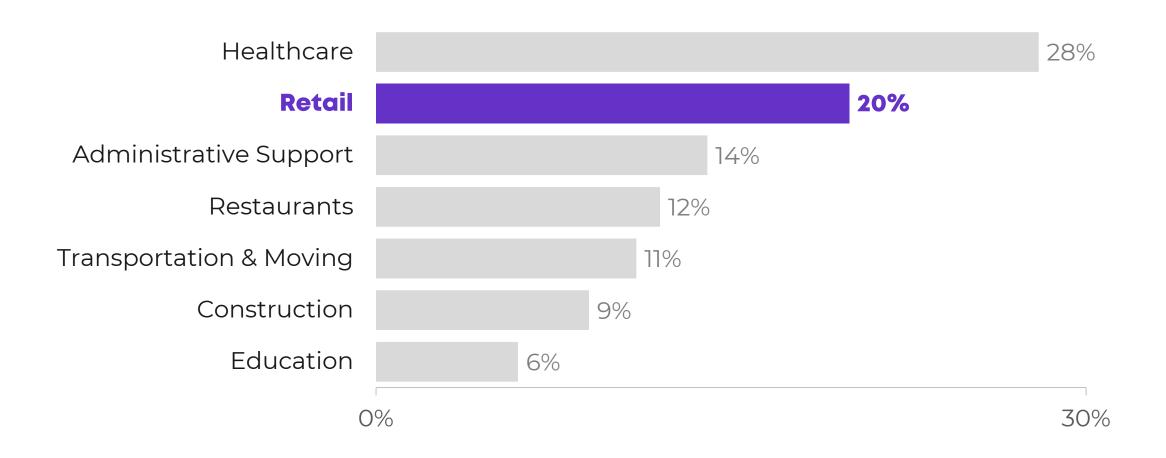


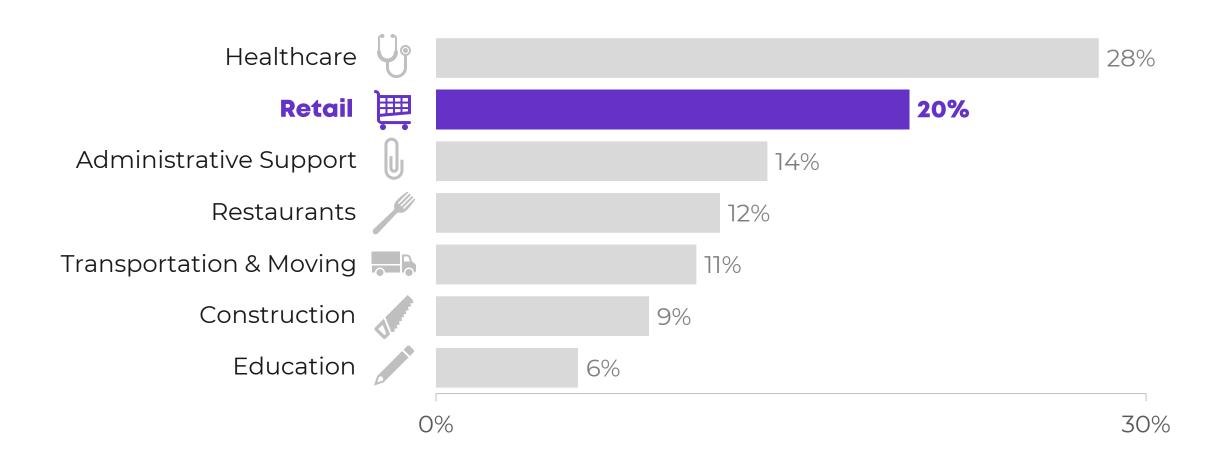














Which Tool? Chartmaker. Visualising Data.com

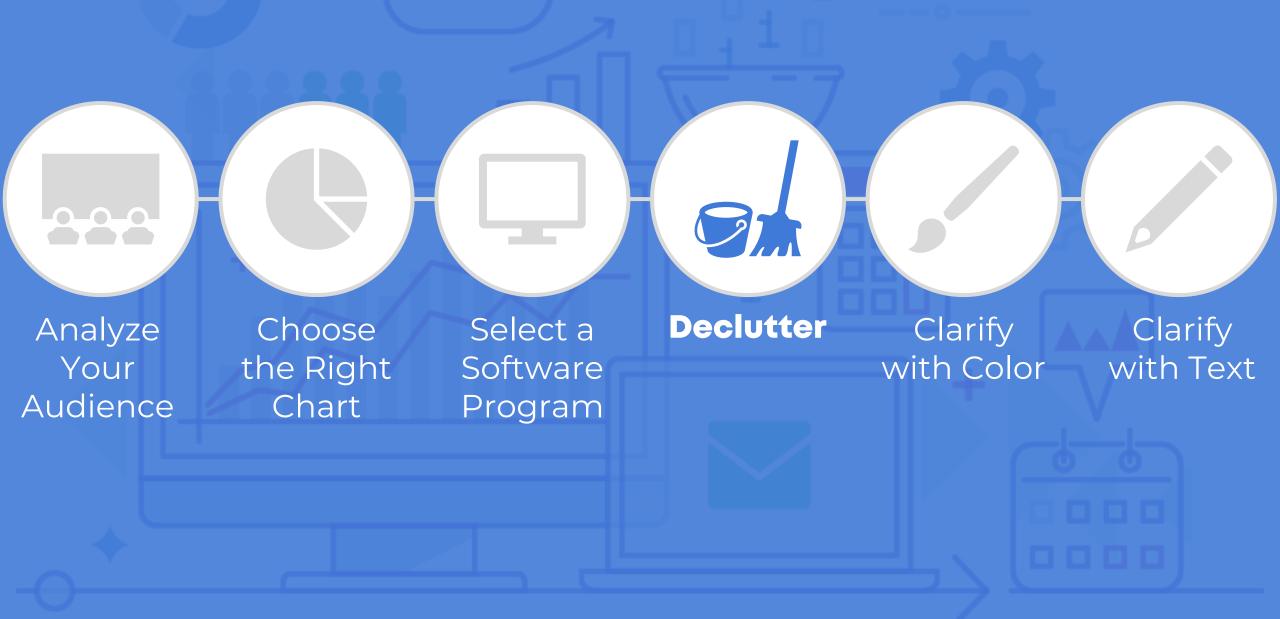


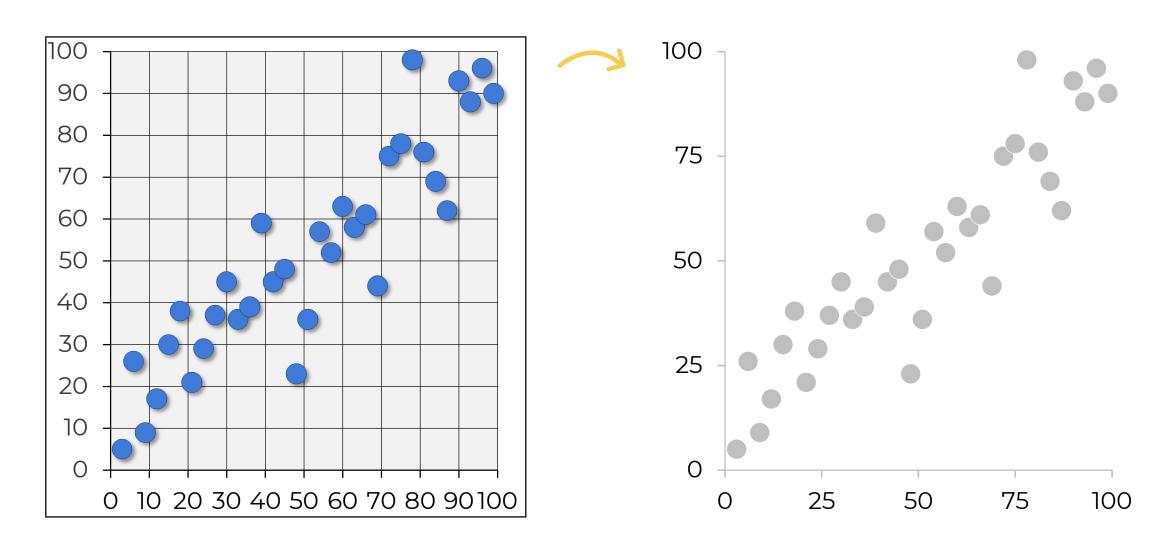


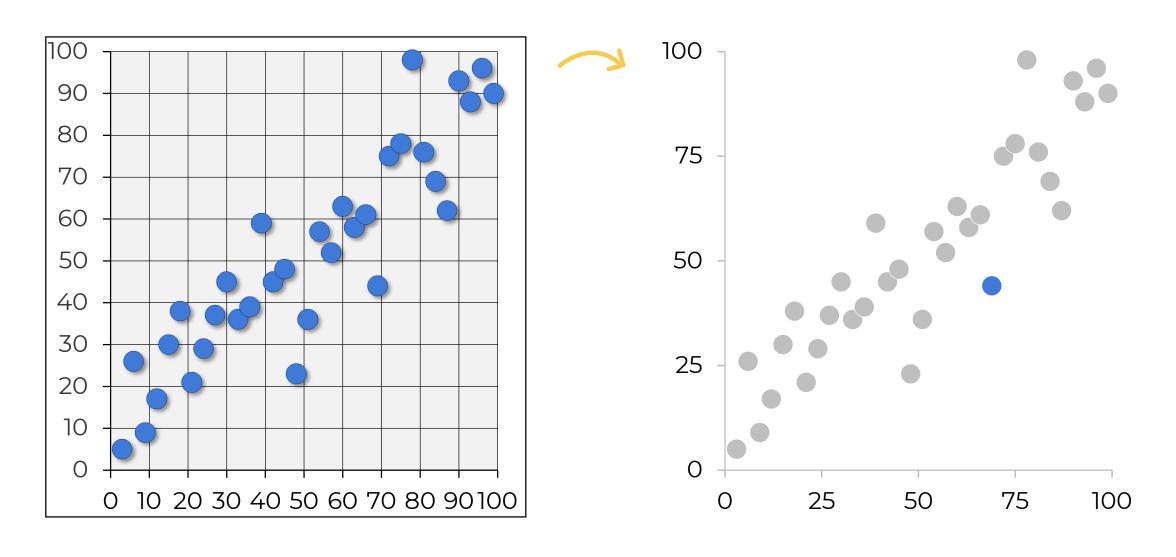


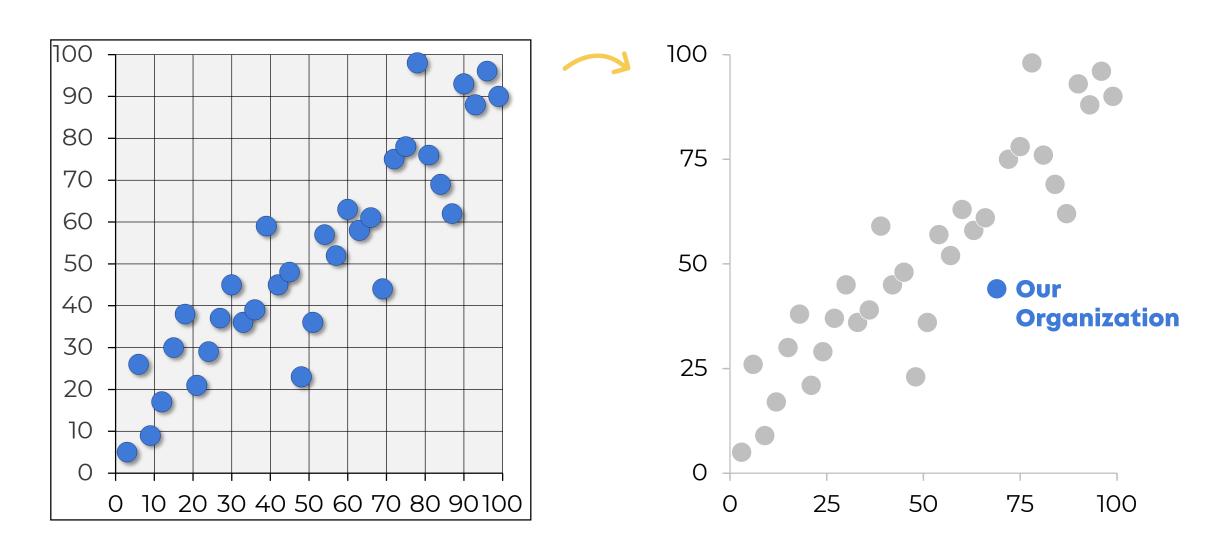


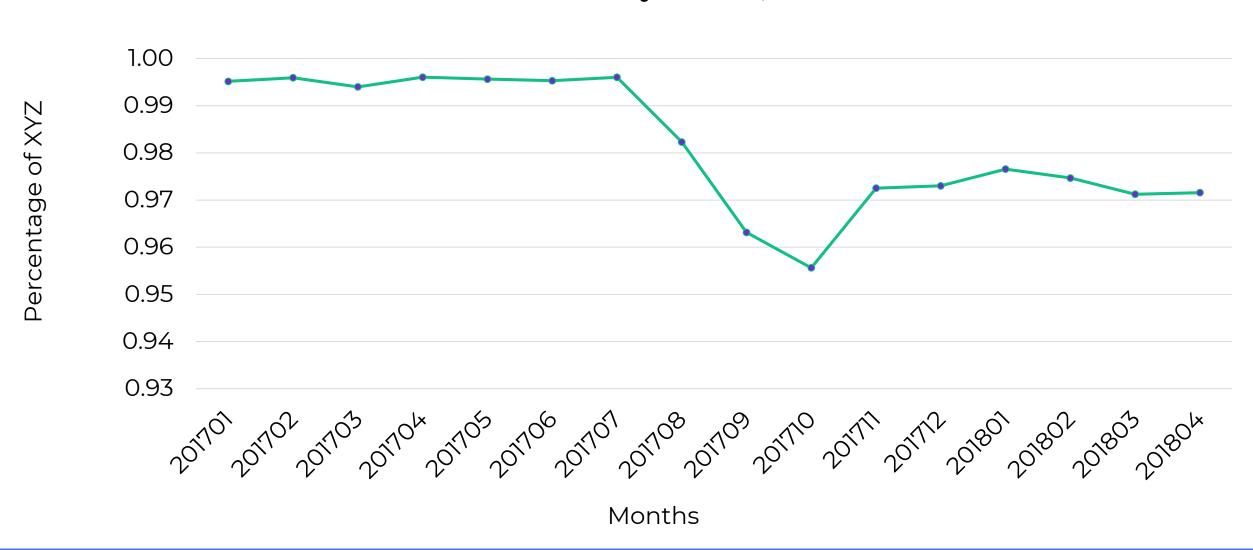
Filter by chart name or AKA Reference Type: Chart Families: Categorical Hierarchical Relational Temporal Chart Families: Categorical Hierarchical Relational Temporal Chart Families: Categorical														nal Temporal Spatial		
	Amazon QuickSight	ArcGIS	ChartJS	Charticulator	D3.js	Data Illustrator	Datawrapper	Flourish	FusionCharts	Gephi	Google Charts	Google Data Studio	Highcharts	Infogram	JetPack Data	JMP
Bar chart	•				••	0	••	0	0		••	0	•0	0	•°	•
Clustered bar char	•				•	0	0	0	0		••				00	•
Bullet chart				•	•		••		0							•
Waterfall chart				•	•				0		•		0	0		
Radar chart			0		•				0				0			
Polar chart			•	•	•								00			
Connected dot plo	t				••	0	0									
Pictogram					0									0		
Proportional shap chart	e				•••	0		00	0		•					

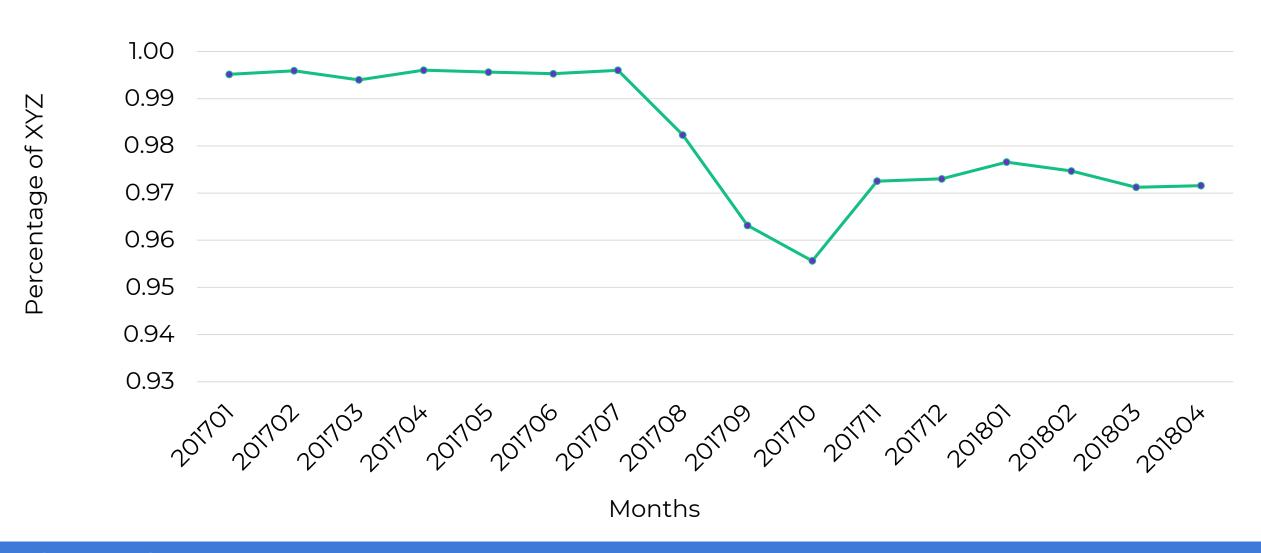


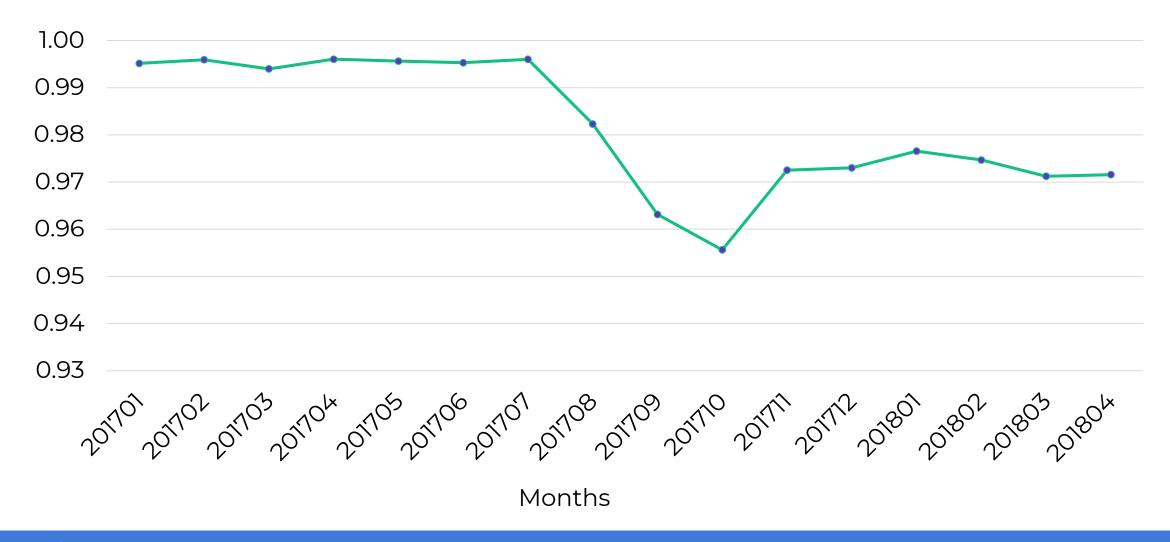




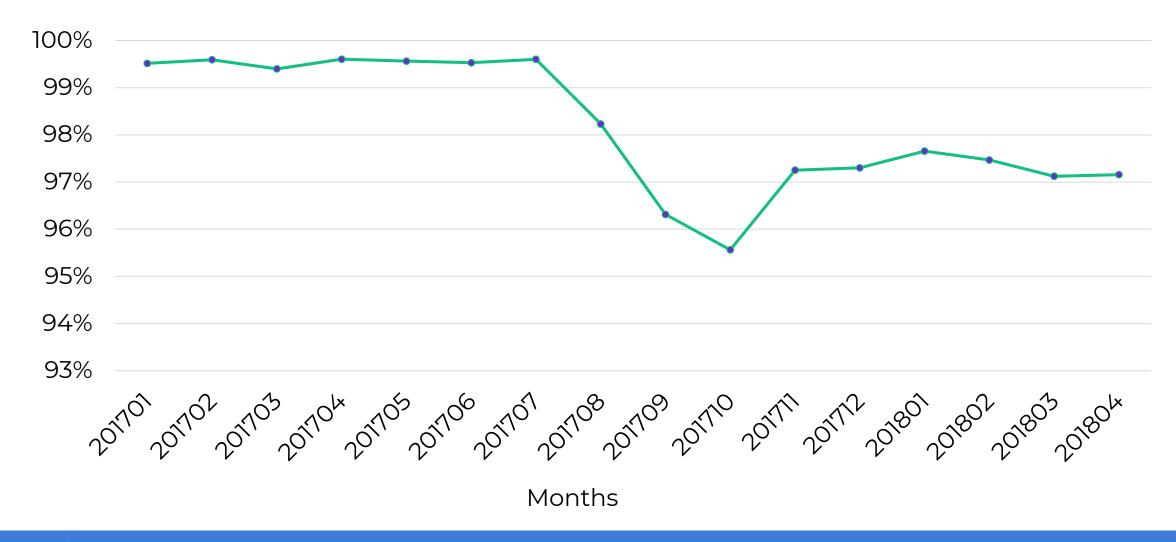










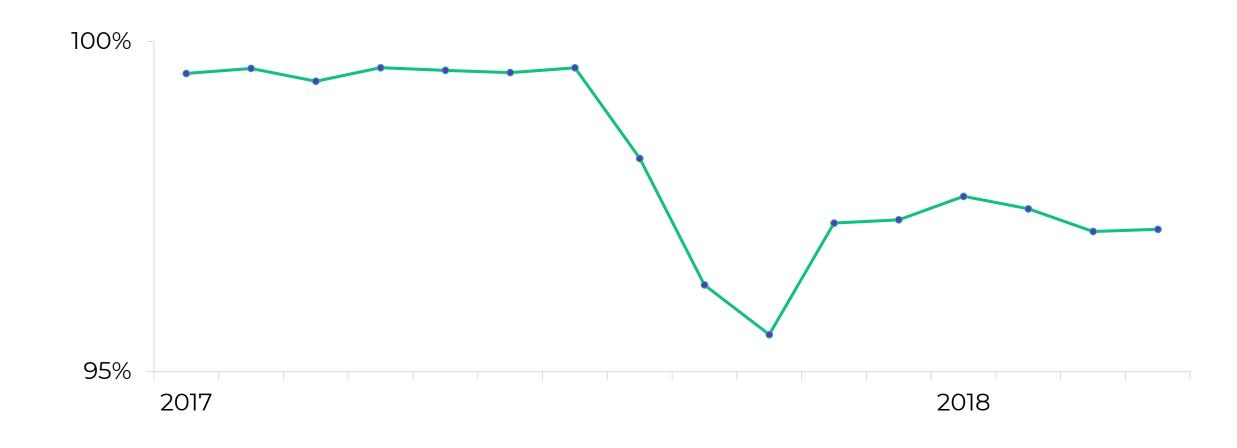


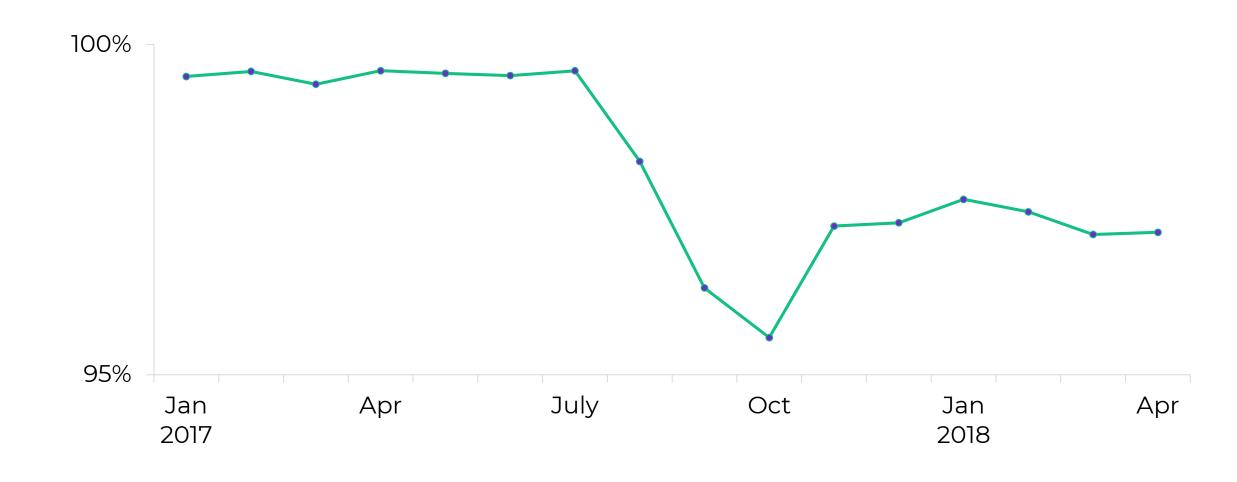


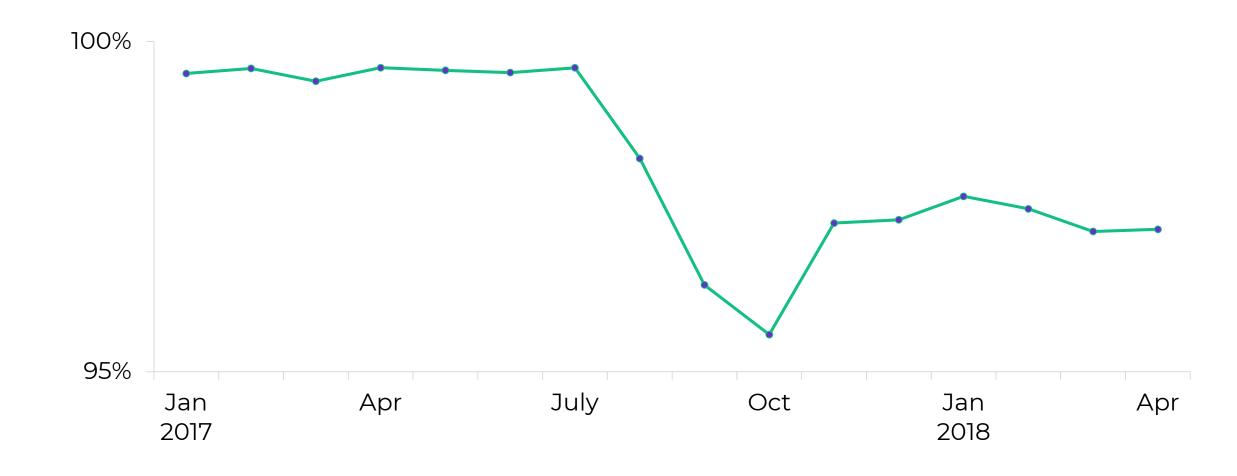


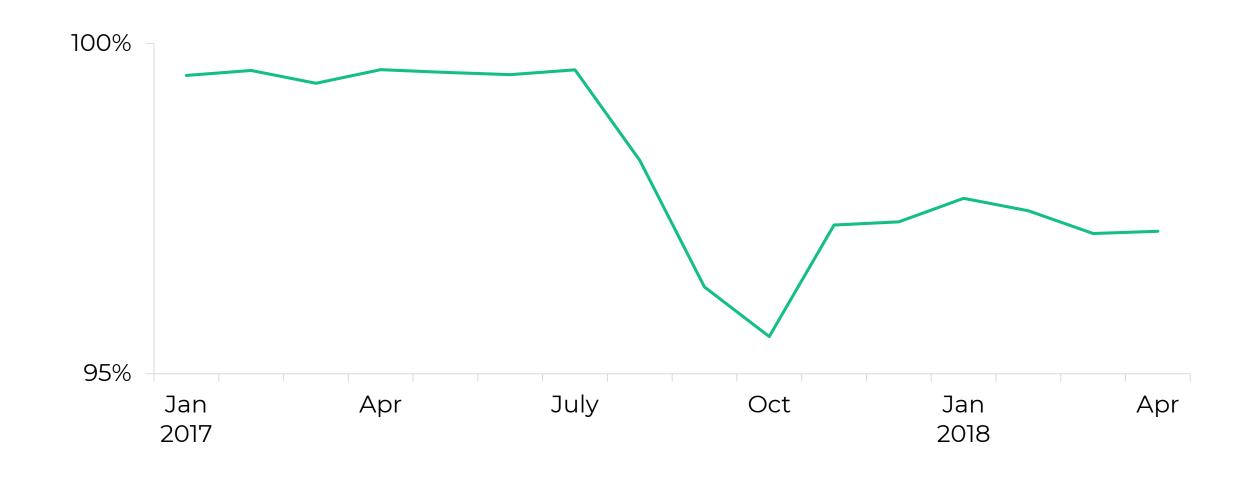


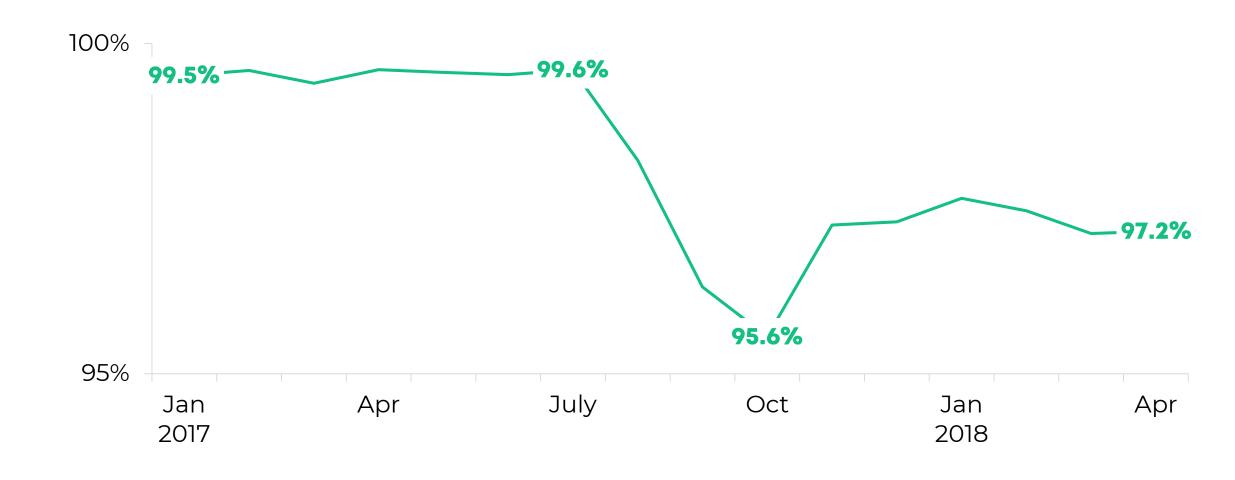


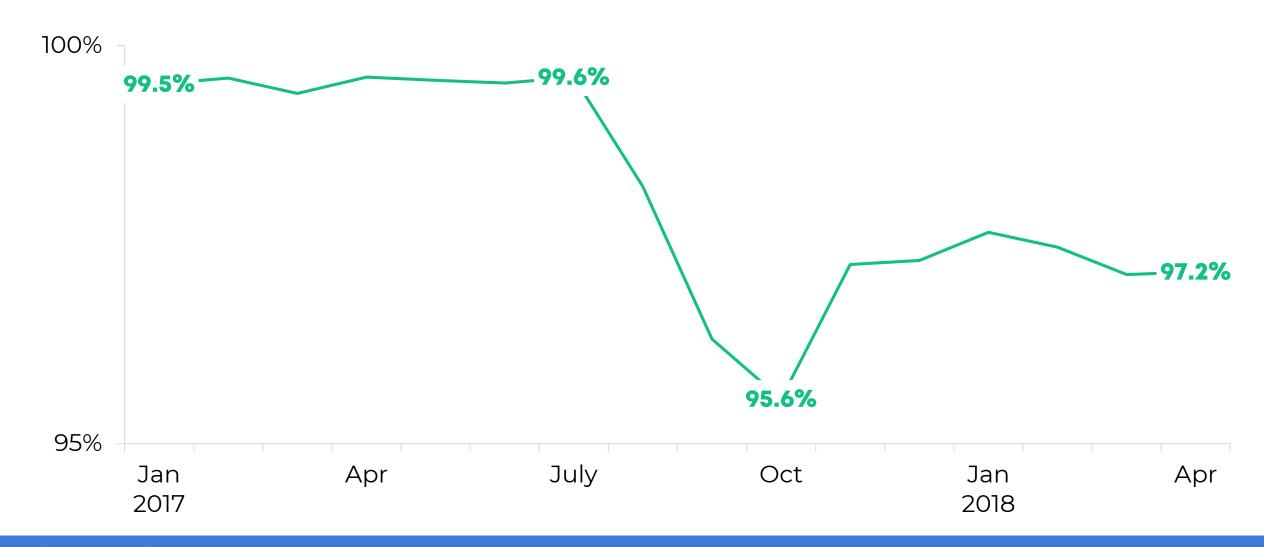




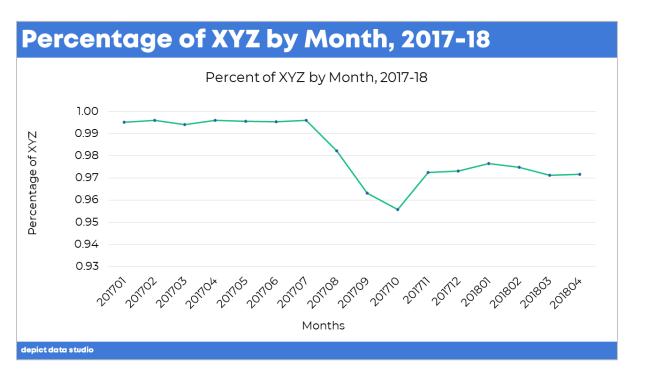


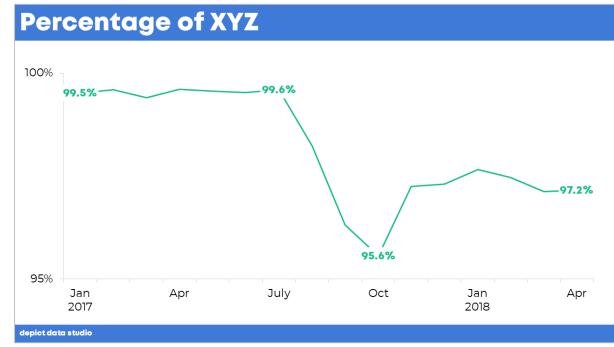


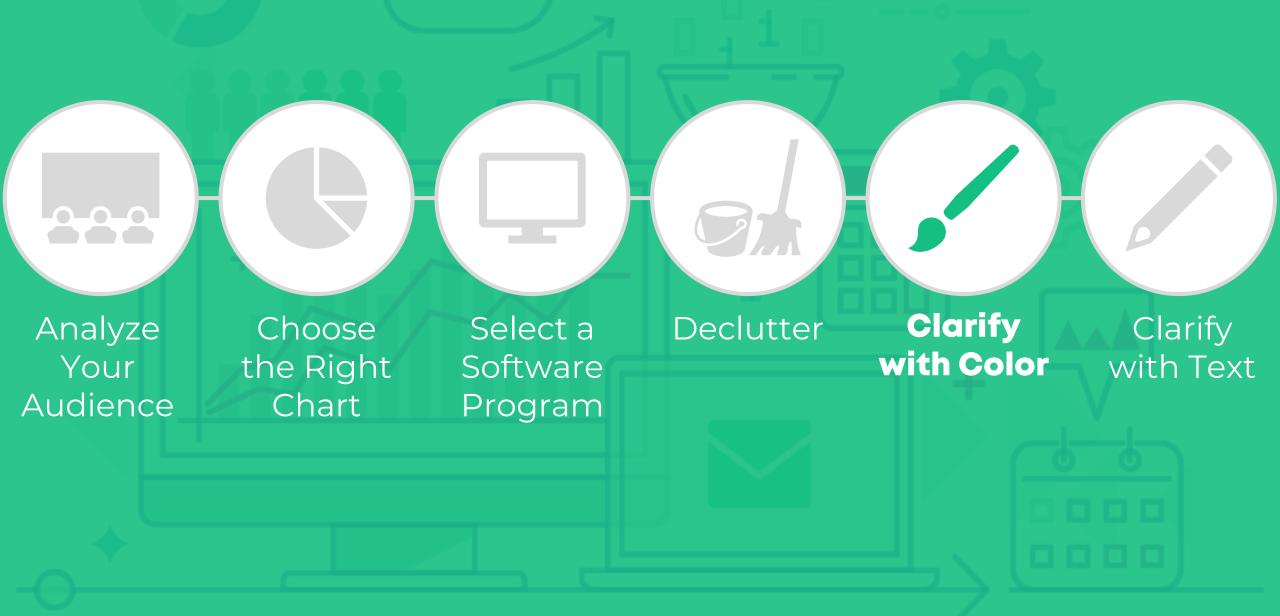












Brand Visuals with Custom Colors

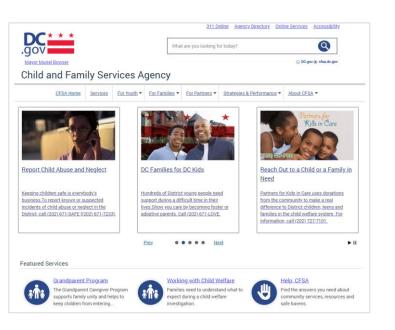
Check Out Your Style Guide, Logo, and/or Website



Figure Out Your Color Codes

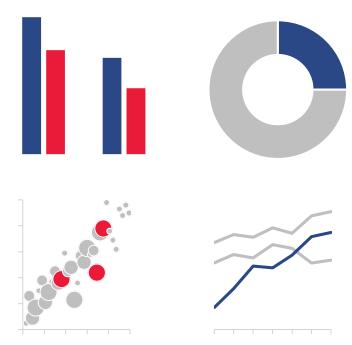


Use Those Colors in Your Visuals



Blue RGB 42, 72, 134 Hex 86482A

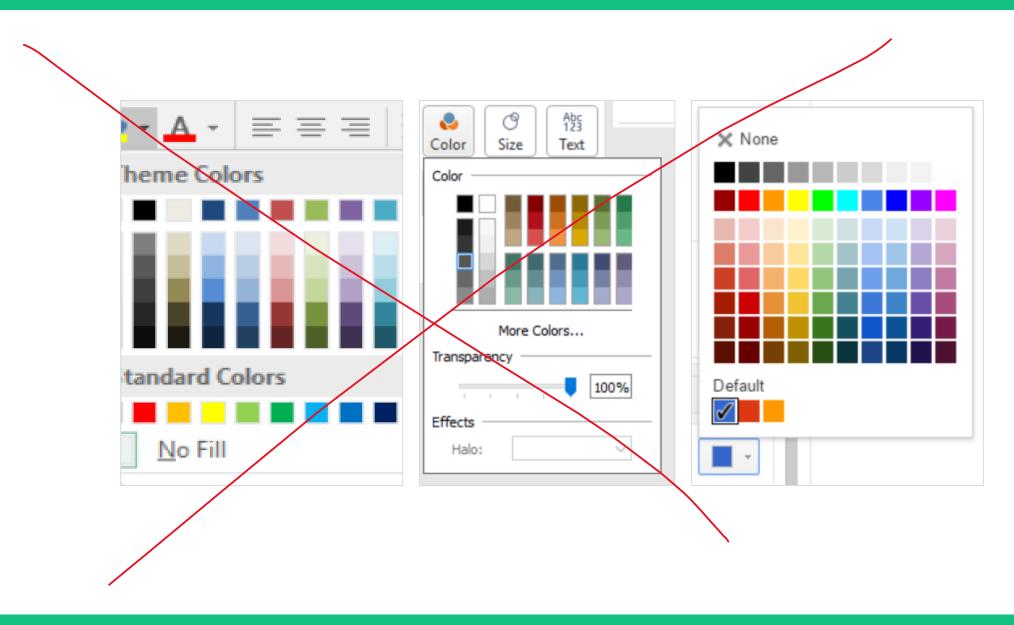
Red RGB 234, 27, 57 Hex 391BEA

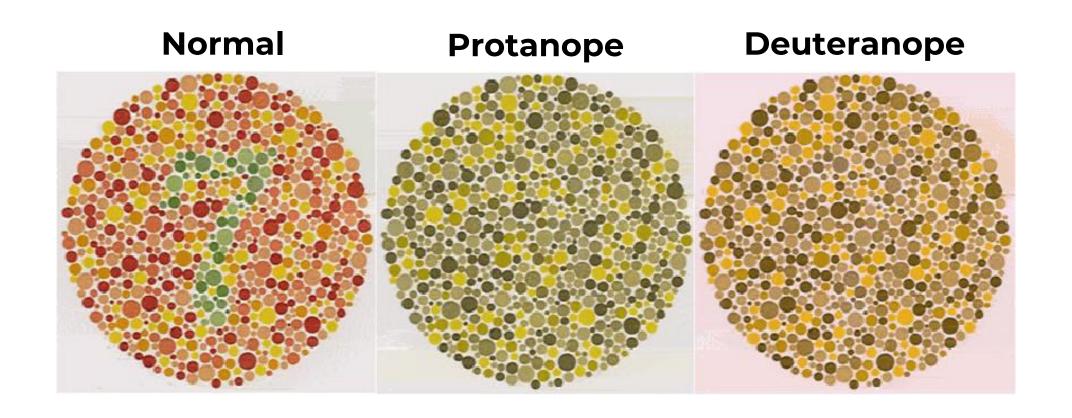


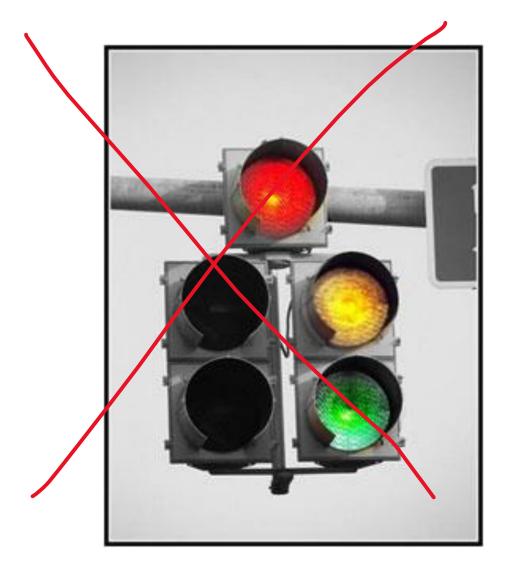
Find Color Codes in Style Guides

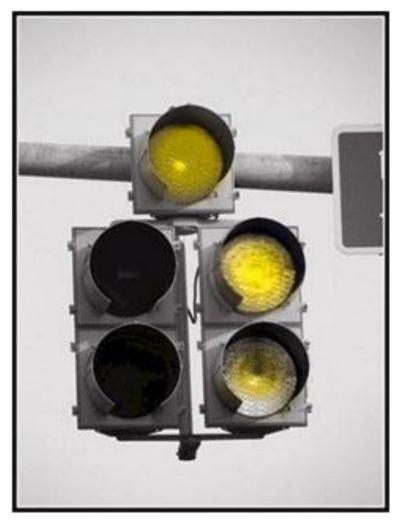


Brand Visuals with Custom Colors



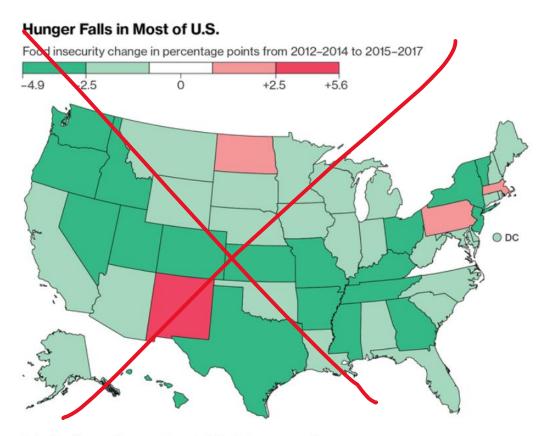






Color Vision Testing, http://colorvisiontesting.com/what%20colorblind%20people%20see.htm





Note: Food insecurity means household lacked money or other resources for obtaining food during year.

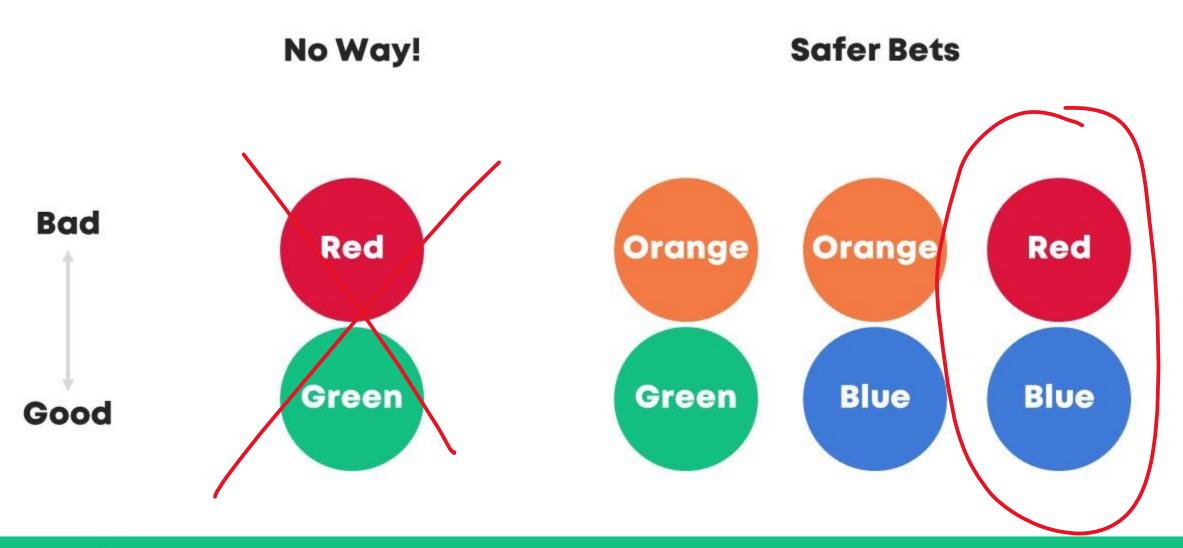
Source: U.S. Department of Agriculture

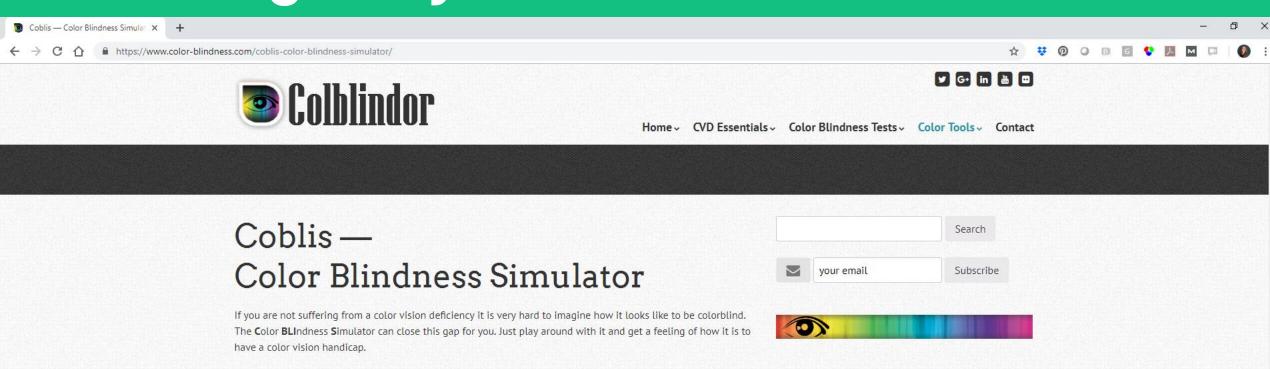
Bloomberg



https://www.bloomberg.com/news/articles/2018-09-05/u-s-hunger-falls-to-lowest-in-decade-as-unemployment-declines

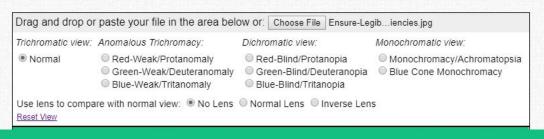
https://www.color-blindness.com/coblis-color-blindness-simulator/





As all the calculations are made on your local machine, no images are uploaded to the server. Therefore you can use images as big as you like, there are no restrictions. Be aware, there are some issues for the "Lens feature" on Edge and Internet Explorer. All others should support everything just fine.

So go ahead, choose an image through the upload functionality or just drag and drop your image in the center of our **C**olor **BLI**ndness **S**imulator. It is also possible to zoom and move your images around using your mouse – try it out, I hope you like it.



(color blindness)

FREE Color Blind Check

New kind of color blindness test!
Try <u>Color Blind Check</u> and test
type and severity of your color
vision deficiency. Easy and fun!
Info at <u>www.colorblindcheck.com</u>

SPONSORED SEARCHES

eye vision test



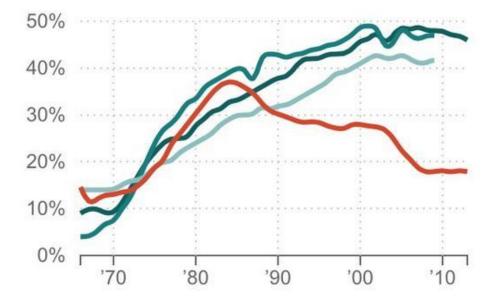


Remove Legends and Label Directly

What Happened To Women In Computer Science?

% Of Women Majors, By Field

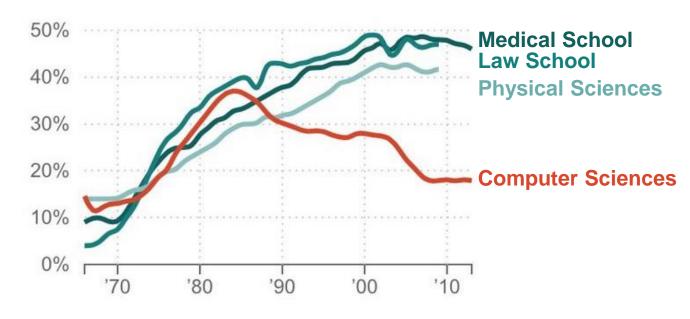




N N

What Happened To Women In Computer Science?

% Of Women Majors, By Field

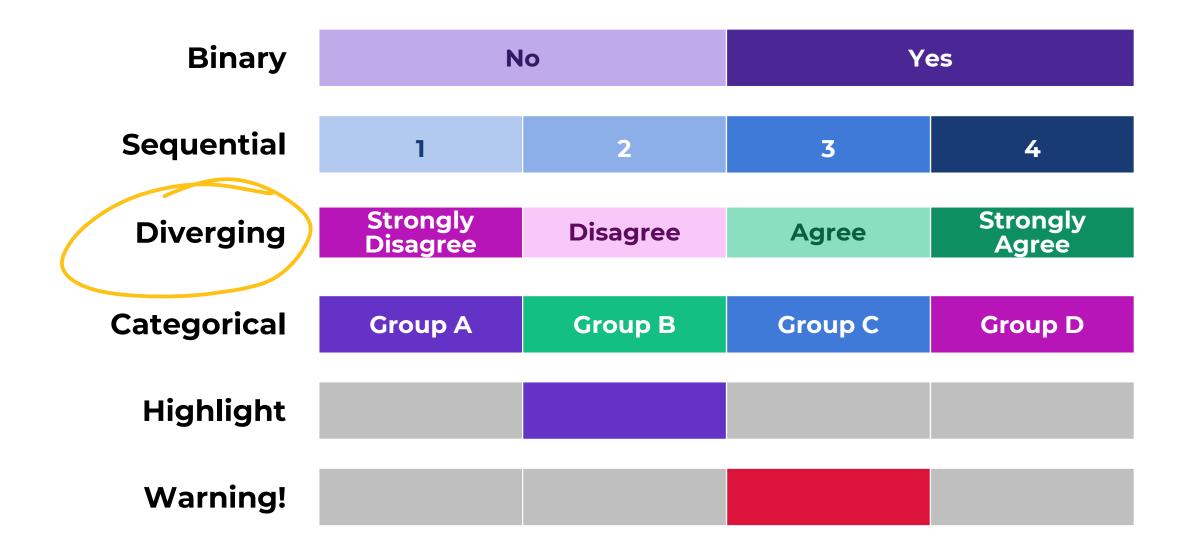


NPR, http://www.npr.org/blogs/money/2014/10/21/357629765/when-women-stopped-coding

Use Your Branding Colors in Your Visuals

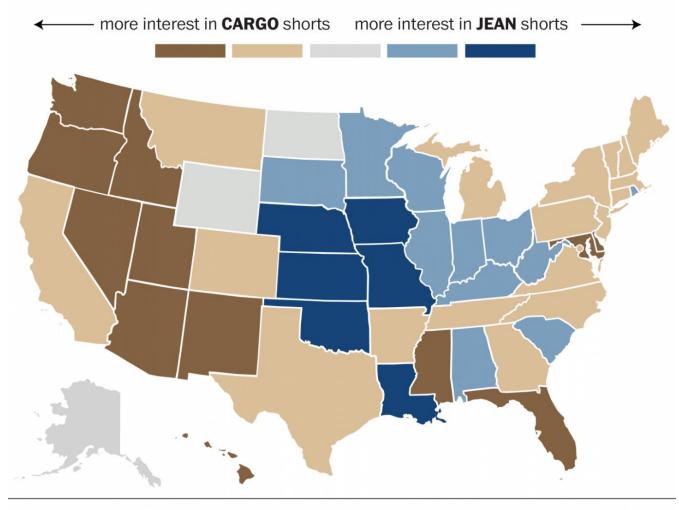
Binary	No		Yes	
Sequential	1	2	3	4
Diverging	Strongly Disagree	Disagree	Agree	Strongly Agree
Categorical	Group A	Group B	Group C	Group D
Highlight				
Warning!				

Use Your Branding Colors in Your Visuals



Diverging

The great shorts divide

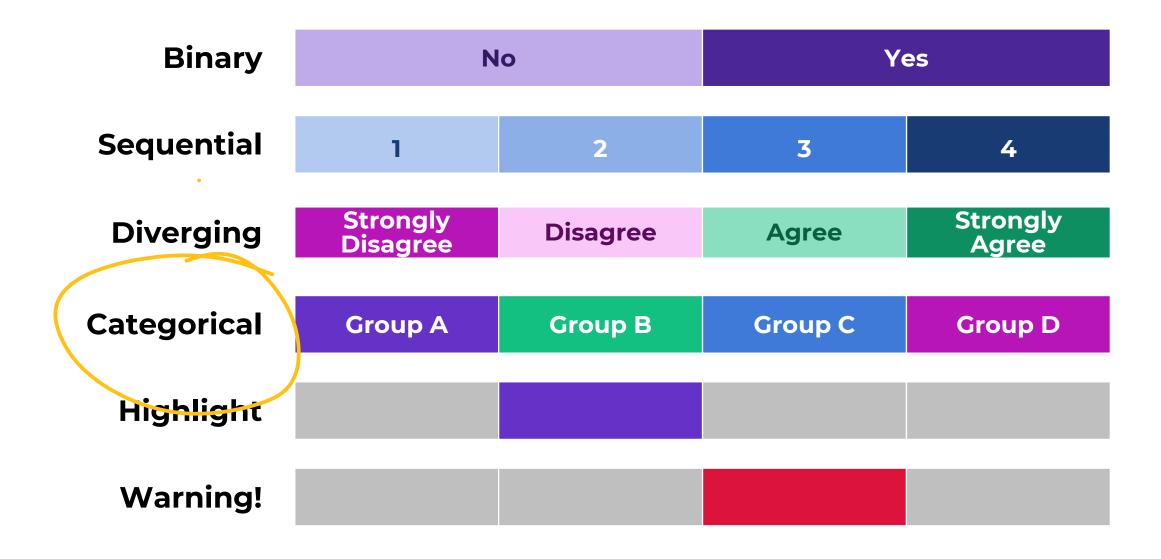


WAPO.ST/WONKBLOG

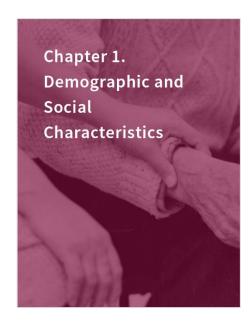
Source: Google Trends

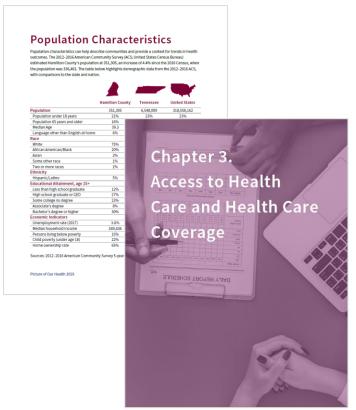
Washington Post, https://www.washingtonpost.com/news/wonk/wp/2016/08/05/map-real-americans-wear-jorts/

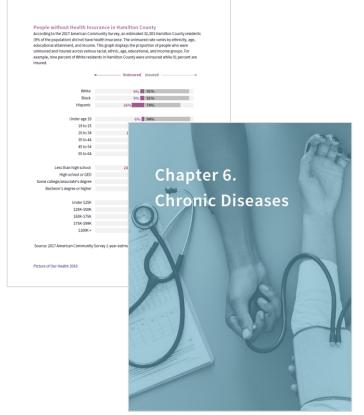
Use Your Branding Colors in Your Visuals



Categorical by Chapter

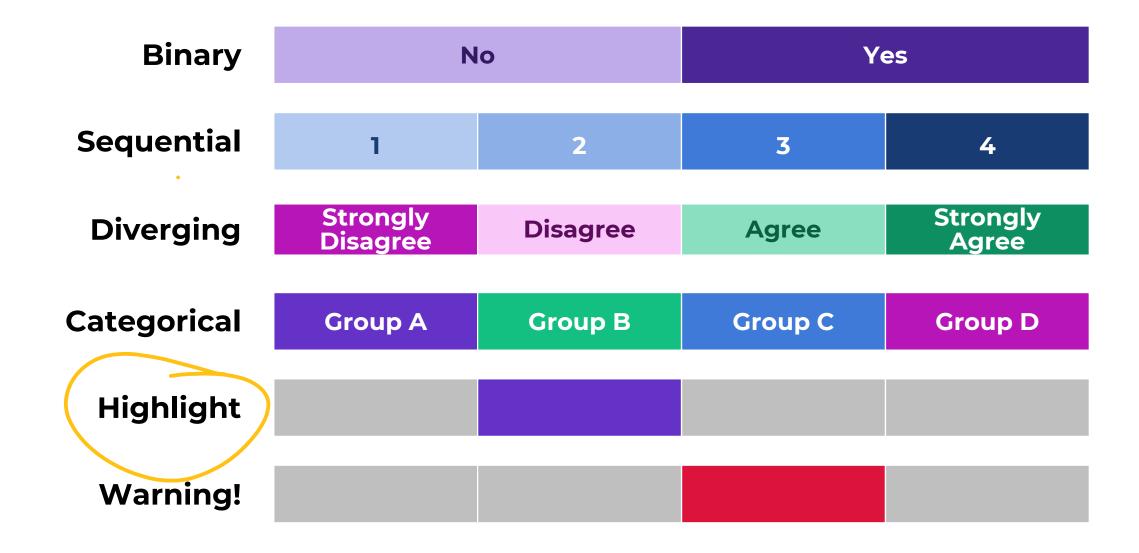








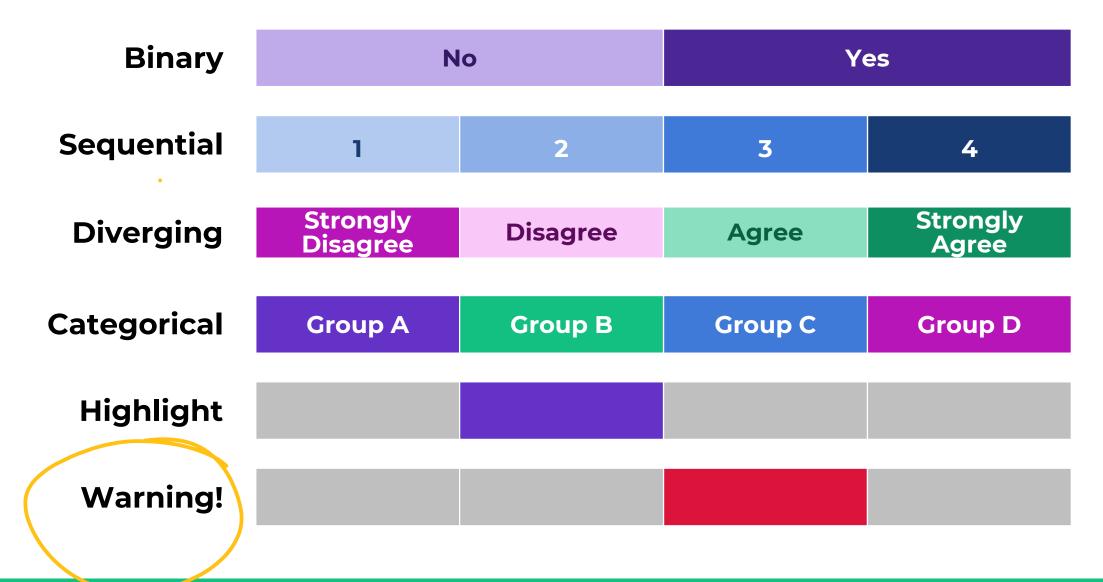
Use Your Branding Colors in Your Visuals



Highlight to Draw Attention

Views in:	Most Hardworking	Most Trustworthy	Least Hardworking	Least Trustworthy
Britain	Germany	Germany	Greece	France
France	Germany	Germany	Italy	Greece
Germany	Germany	Germany	Greece	Greece/Italy
Italy	Germany	Germany	Romania	Italy
Spain	Germany	Germany	Greece	Italy
Greece	Greece	Greece	Italy	Germany
Poland	Germany	Germany	Greece	Germany
Czech Rep.	Germany	Germany	Greece	Greece

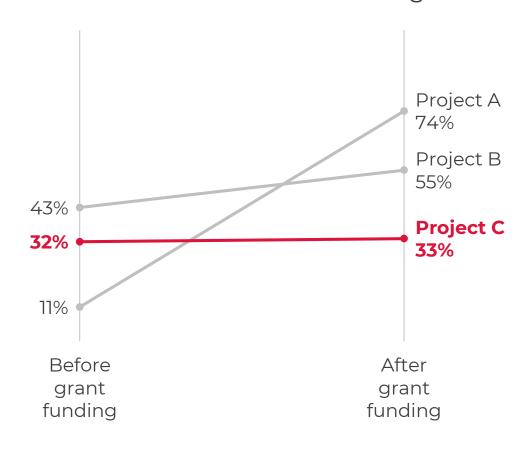
Use Your Branding Colors in Your Visuals



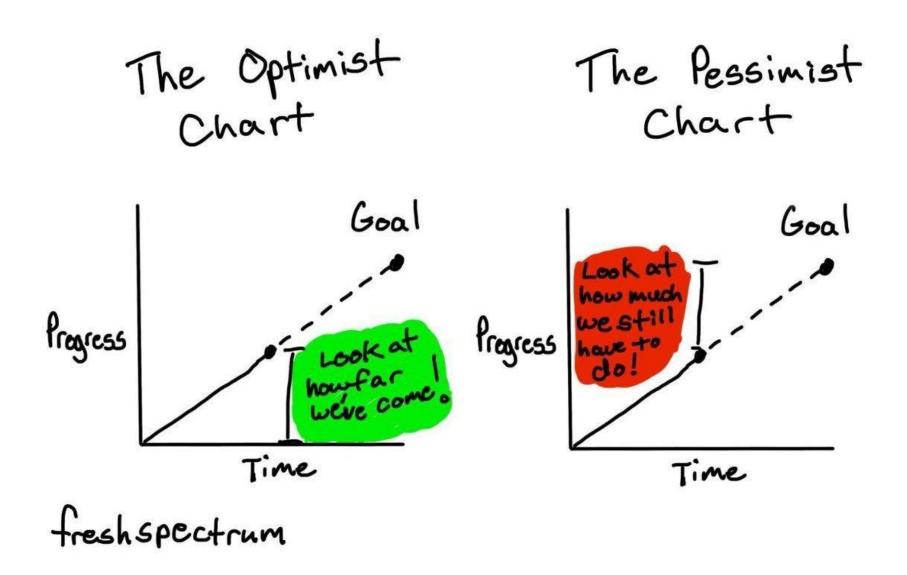
Warning!

Project C Remained the Same

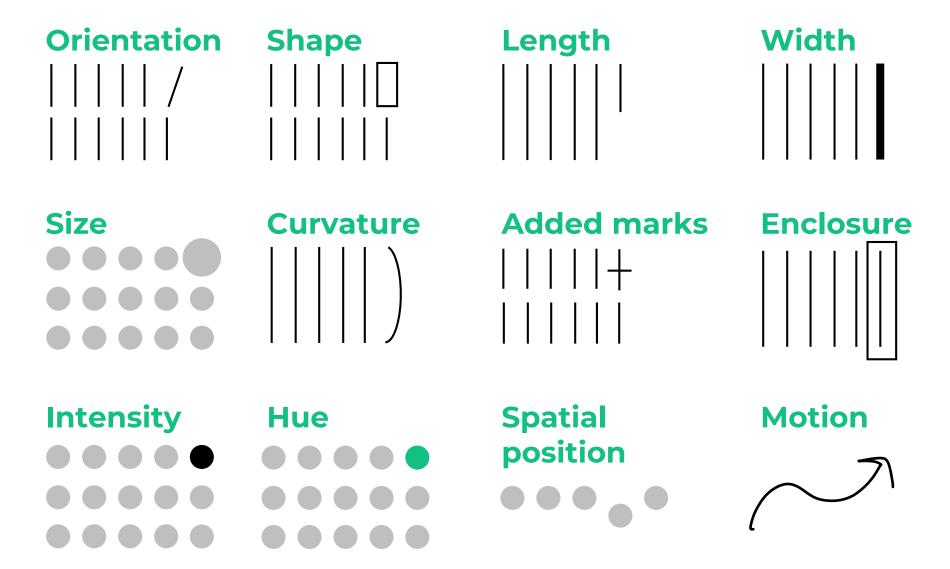
After the Four-Year Grant Funding



Which Tone?



Preattentive Attributes



Stephen Few, https://www.perceptualedge.com/articles/ie/visual_perception.pdf

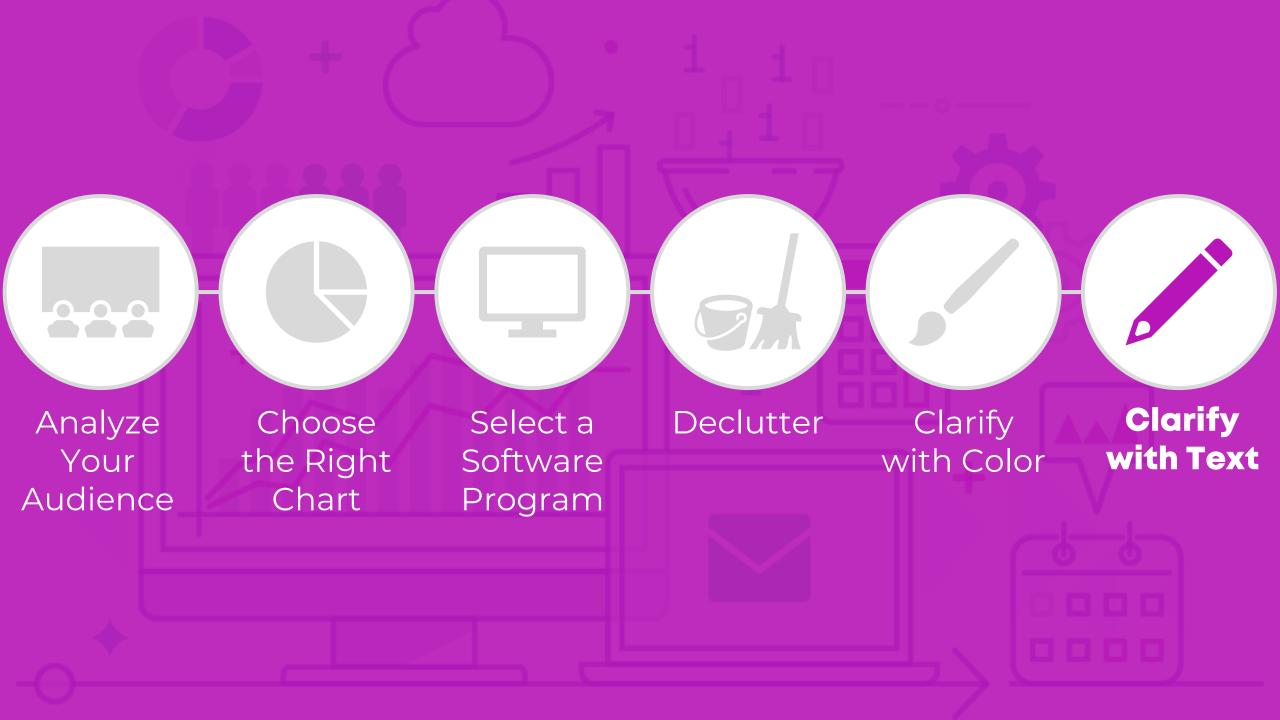
Preattentive Attributes

State laws promoting social, emotional, and academic development leave room for improvement

National landscape of social emotional learning and school health policies

This map shows the extent to which states have used policy to promote social-emotional learning in their health education standards. Use the tabs below to navigate between topics related to social-emotional learning. Hover over states to see the status of the selected topic in that state's relevant statutes and regulations.

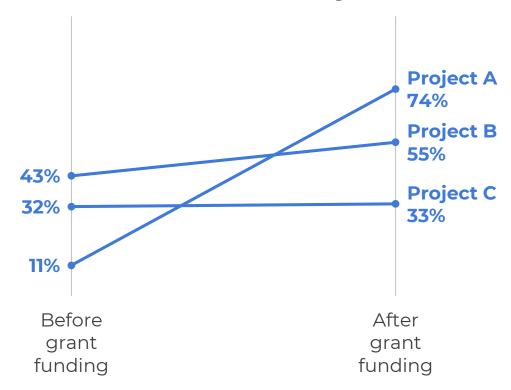




Write the Takeaway Finding in the Title

Traditional

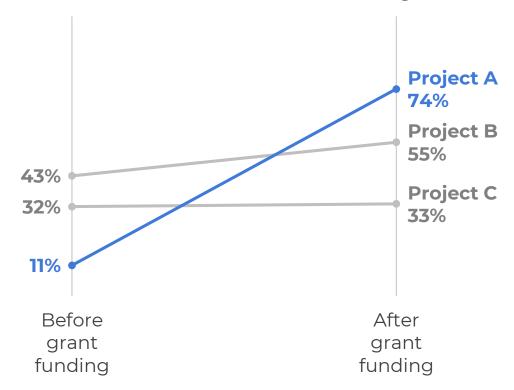
Figure 2. Project Results Before and After the Four-Year Grant Funding



Storytelling

Project A Improved the Most

After the Four-Year Grant Funding



Write the Takeaway Finding in the Title

MAYO

CLINIC

Data precented as n(%) or median (interquartile range).

LOS was longer for females than males (236 vs. 222

with all measures of time in minutes.

min. p<8.0001)

understand reasons why

· Moods median test used to compare medians

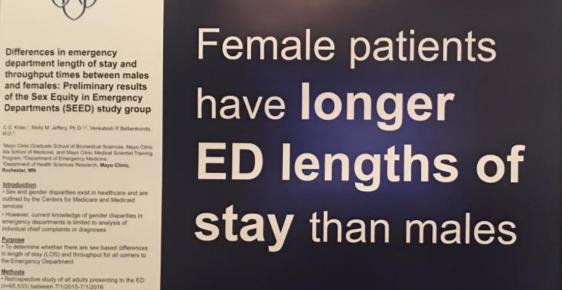
Mon experienced shorter time to room, time to

than women (for all companisons p=0 0001)

provider, time to disposition plan, and treatment time

 Females have longer throughput times and length of stay in than makes within the same emergency department. This serves to spotlight an area of potential disparity where turner investigation can be done to





Take a picture to

download the full paper

166

222 (147, 517) 230 (169, 329)

Table 1. Length of stay and throughput by sex

24 (11, 63)

Time to disposition plan

 Sex-specific differential diagnoses, testing, and treatments may account for some of the differences

Multivariate analysis adjusting for age, race, chief.

for the potential role in disparities observed

This research is made possible by Mayo Clinic

sex-specific tests on differences in time

more difficult to explain

Future analysis should take into account the influence of

The differences in time to room and time to provider are

complain, BMI, and insurance status should be explored

Department of Emergency Medicine Rochester, MN and

Catherine was supported in part by the National Institute

Clinical and Translational Science (UL1TR002377) and

thanks the Mayo Clinic MSTP for fostering an outstanding environment for physician-scientist training

@mollyjeffery

@venkbellamkonda

of General Medical Sciences (T32 GM 65841) and

Treatment time

Time to provider

Time to provider

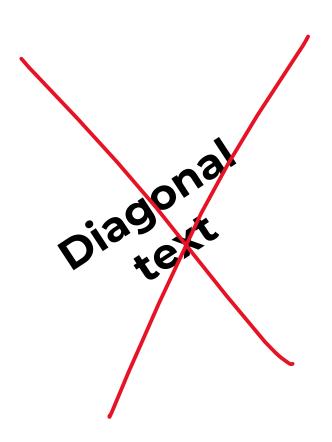
https://twitter.com/elliotthaut/status/1114558290191691777

Horizontal text

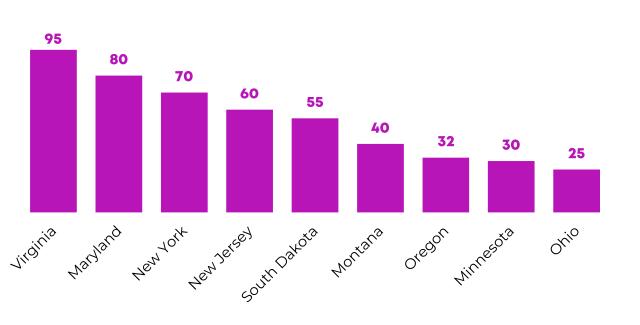
Diagonal

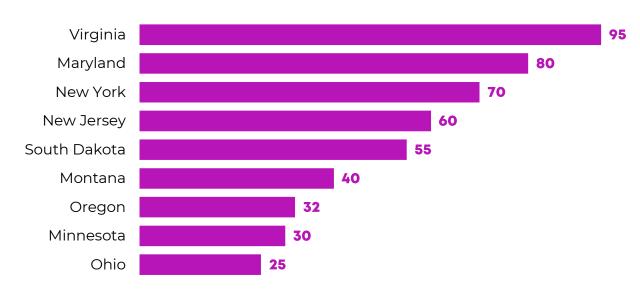
Vertical text

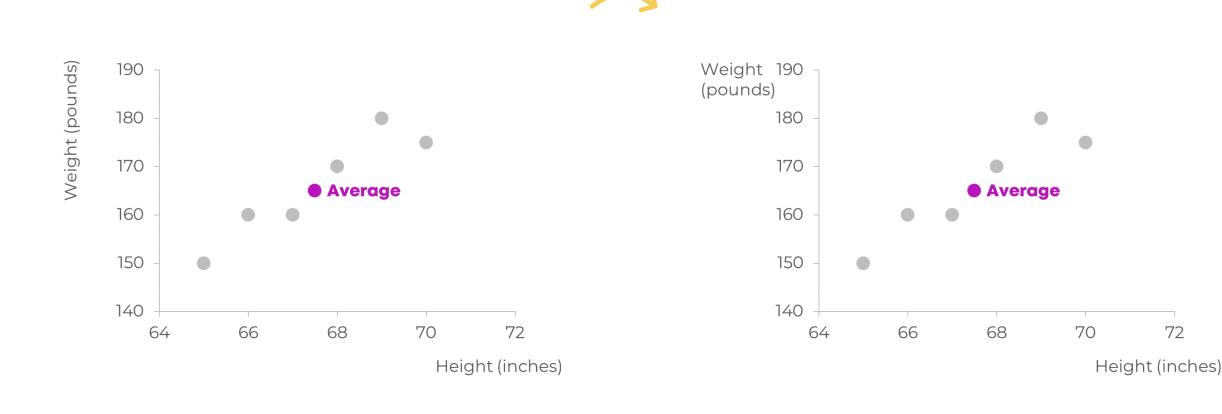
Horizontal text











Use ALL CAPS Sparingly

Title Case

Sentence case

ALL CAPS

Use ALL CAPS Sparingly

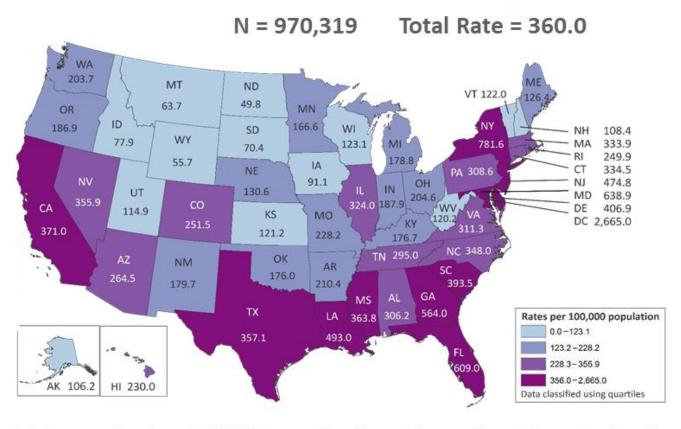
Title Case

Sentence case



Your Turn

Rates of Adults and Adolescents Living with Diagnosed HIV Infection Year-end 2014

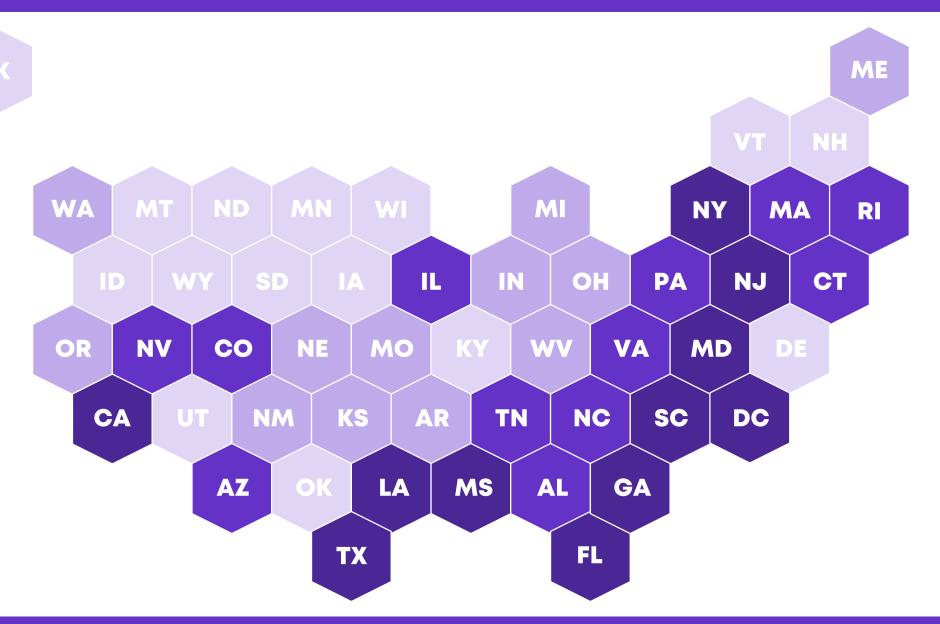


Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. Data are based on address of residence as of December 31, 2014 (i.e., most recent known address).

Ш

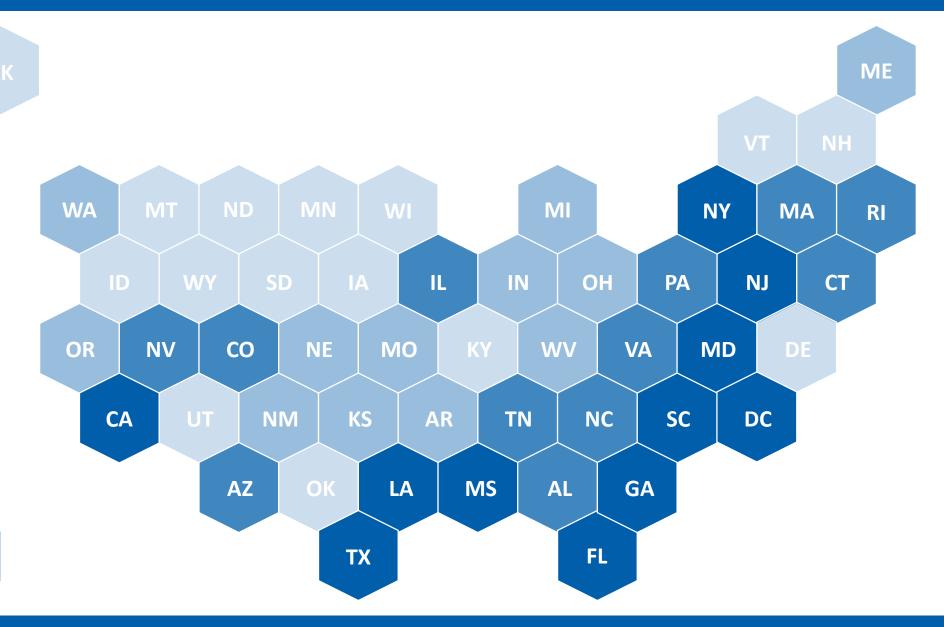
HIV rates per 100,000 adults and adolescents

365 to 2,665 228 to 355 123 to 228 0 to 123



HIV rates per 100,000 adults and adolescents

365 to 2,665 228 to 355 123 to 228 0 to 123



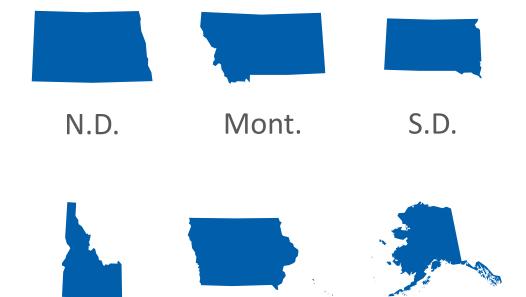
Ш







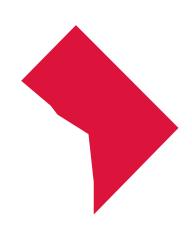




Iowa

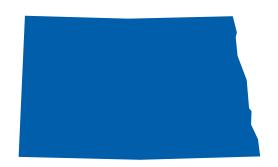
Alaska

Idaho



HIV is most prevalent in Washington, D.C.

2,665 per 100,000 people



HIV is least prevalent in North Dakota

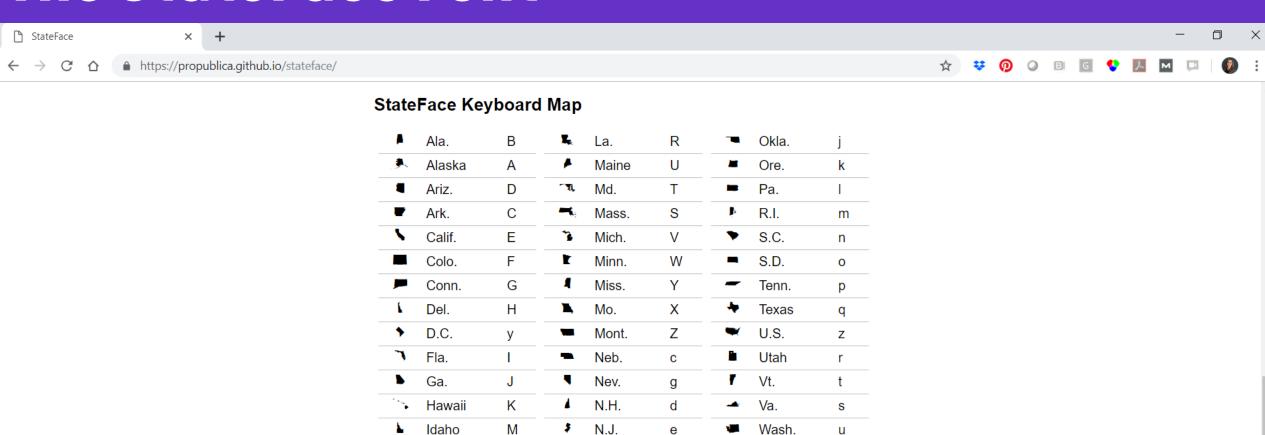
50 per 100,000 people



HIV is most prevalent in Washington, D.C.

2,665 per 100,000 people

The StateFace Font



е

h

b

N.M.

N.Y.

N.C.

N.D.

Ohio

Wash.

W.Va.

Wis.

Wyo.

u

W

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X

Projection Info

Idaho

III.

Ind.

Iowa

Kan.

Ky.

Μ

Ν

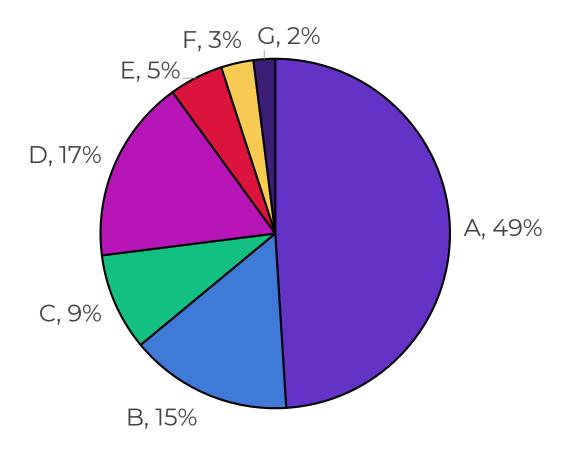
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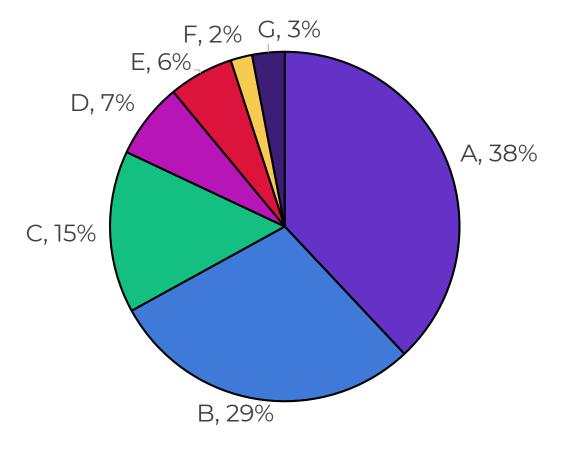
Ρ

Q

ABC-Funded Research

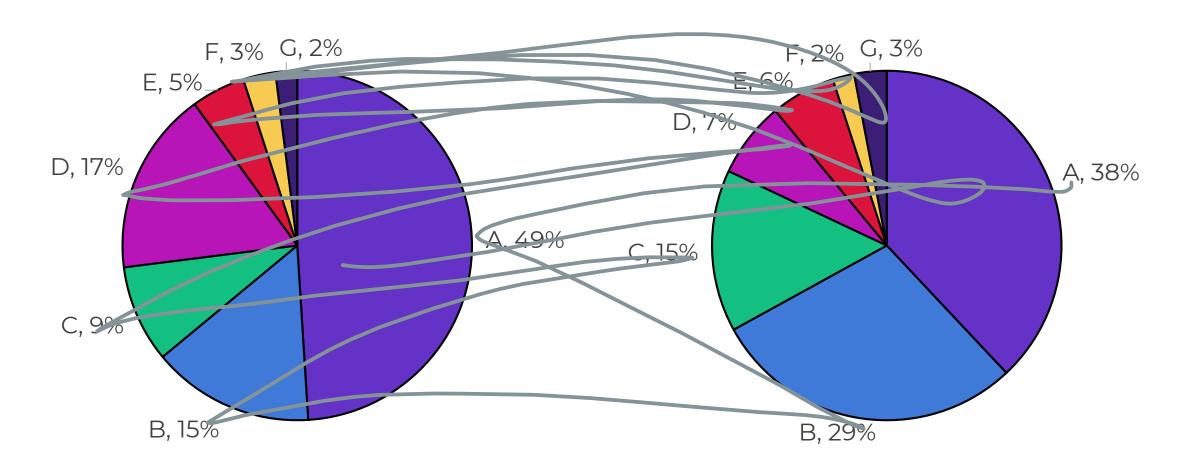
ABC-Funded Research Projects by Topic, 2012-2014 ABC-Funded Research Projects by Topic, 2015-2017

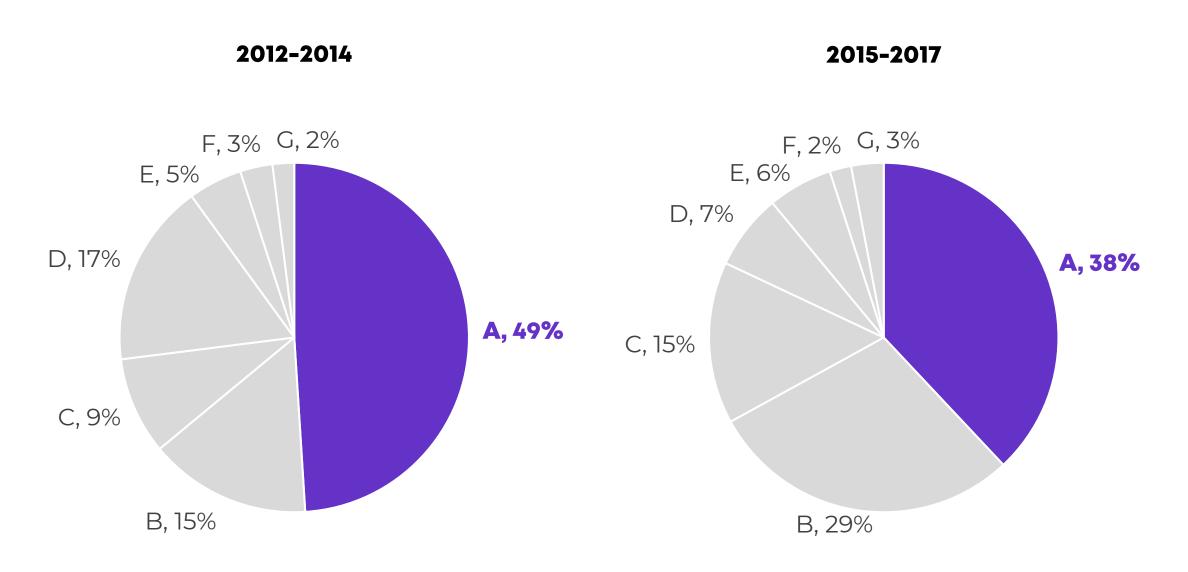


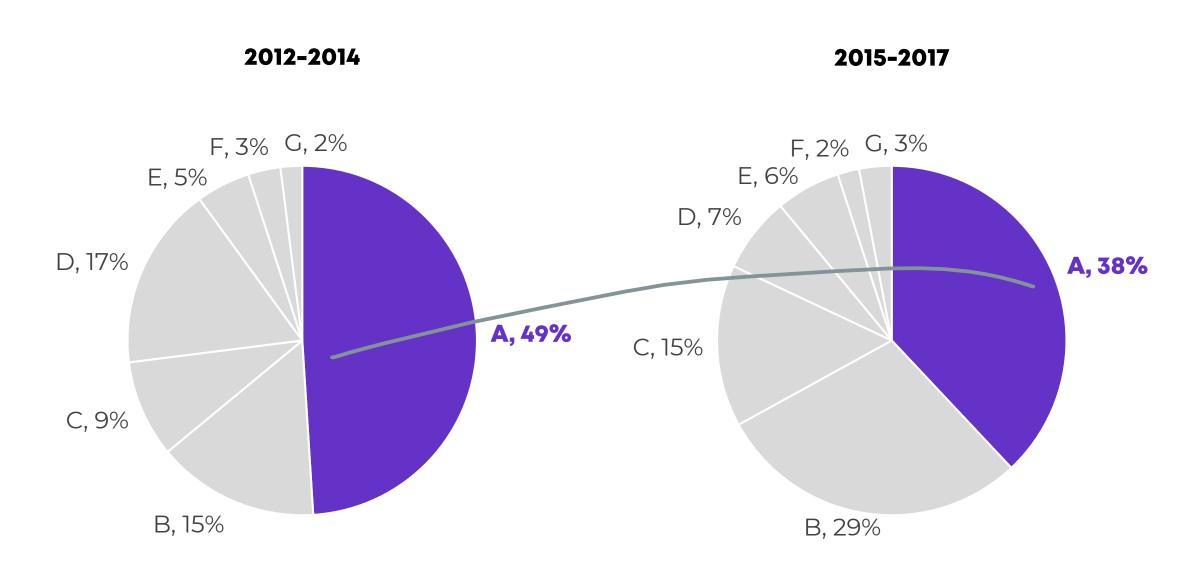


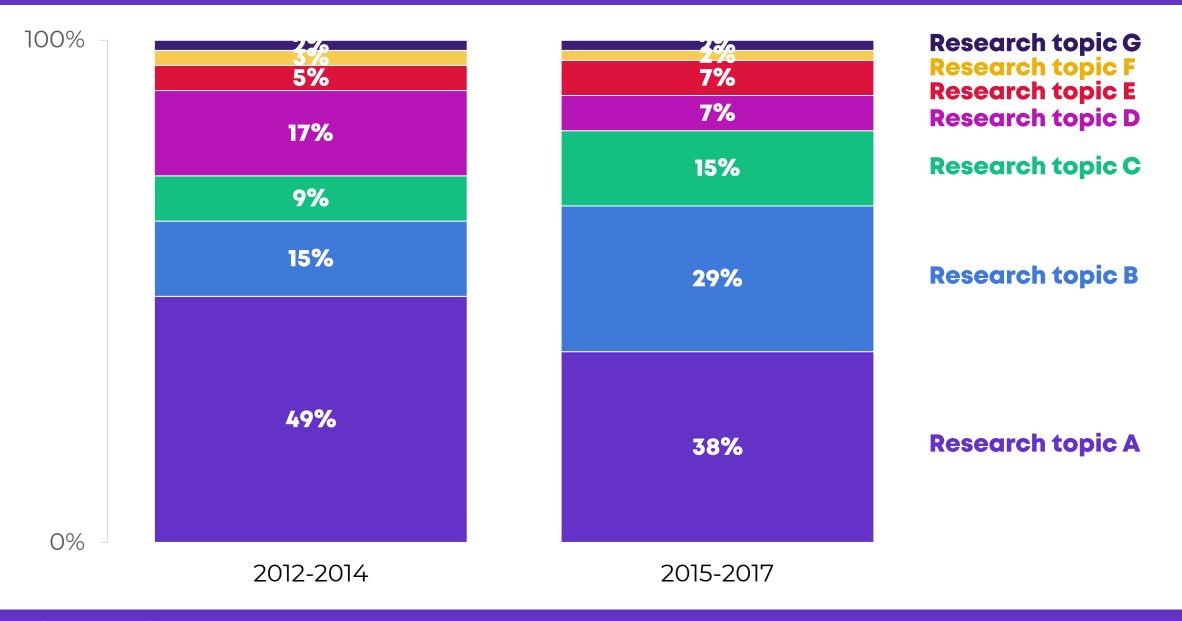


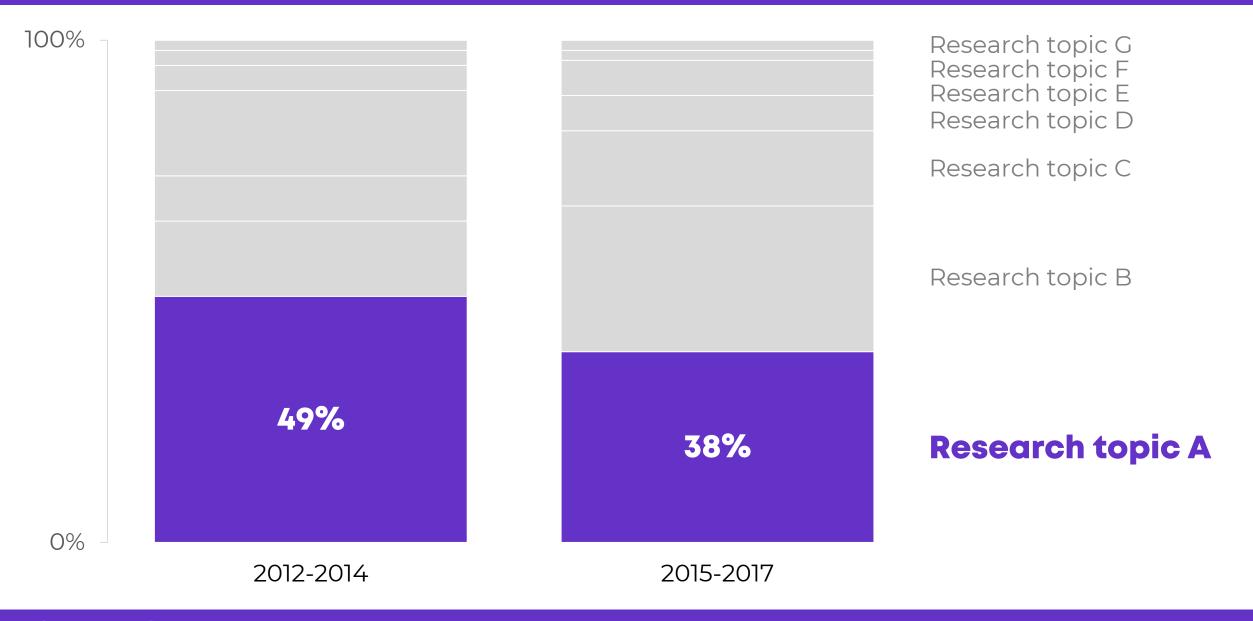
ABC-Funded Research Projects by Topic, 2015-2017

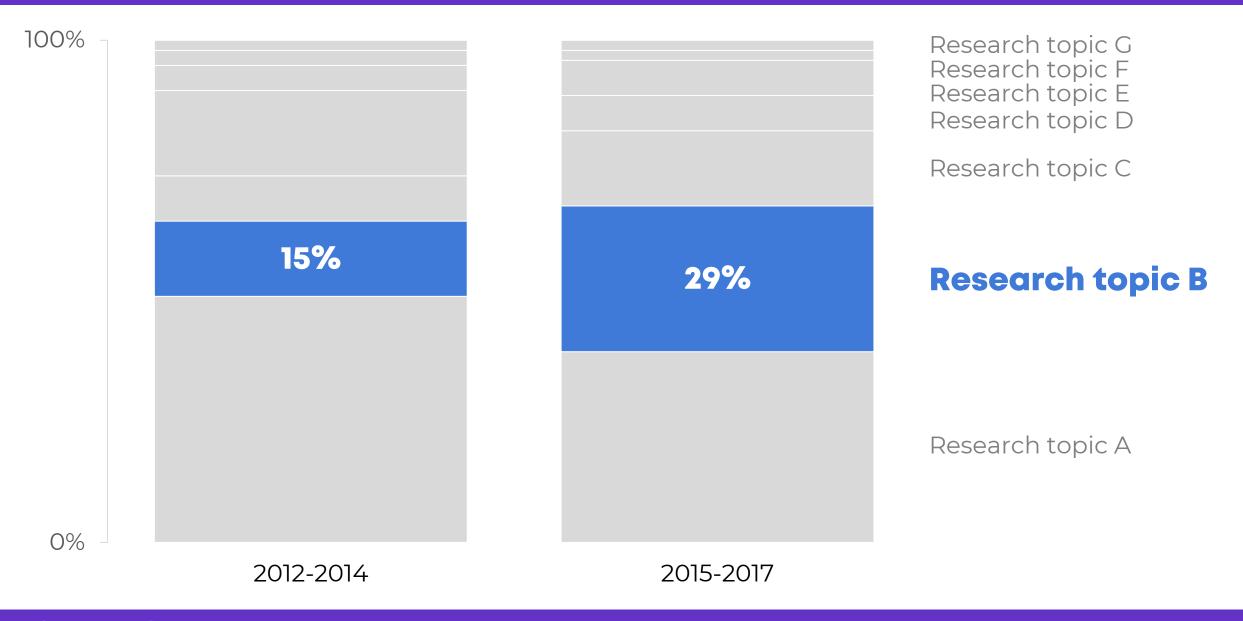


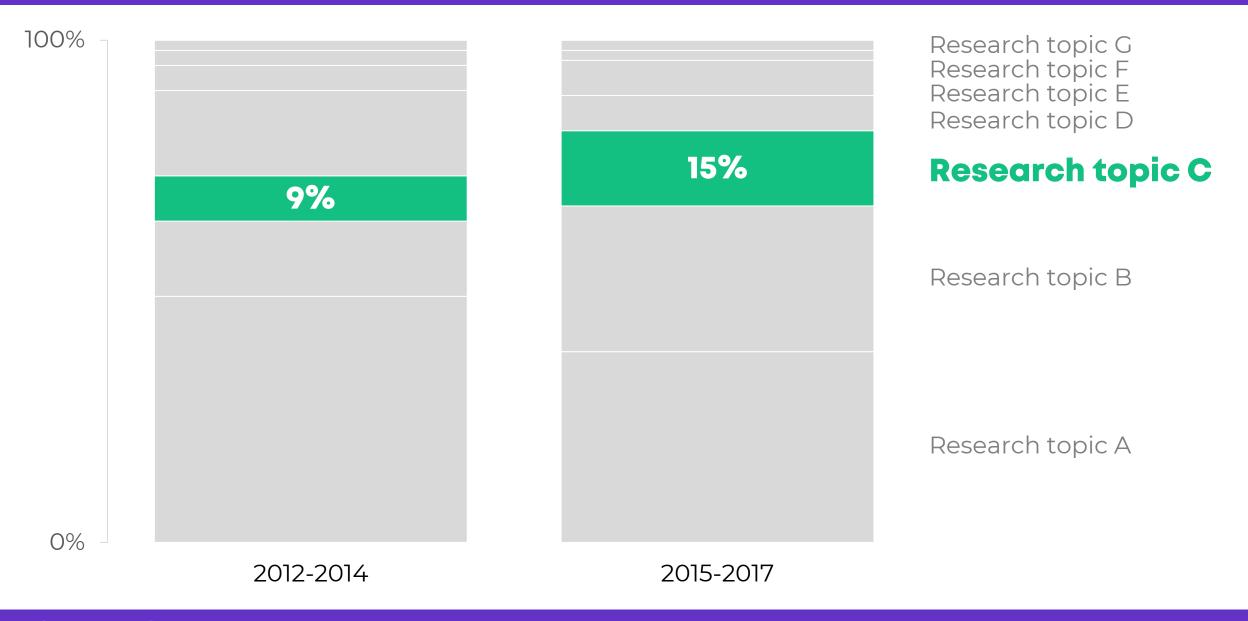


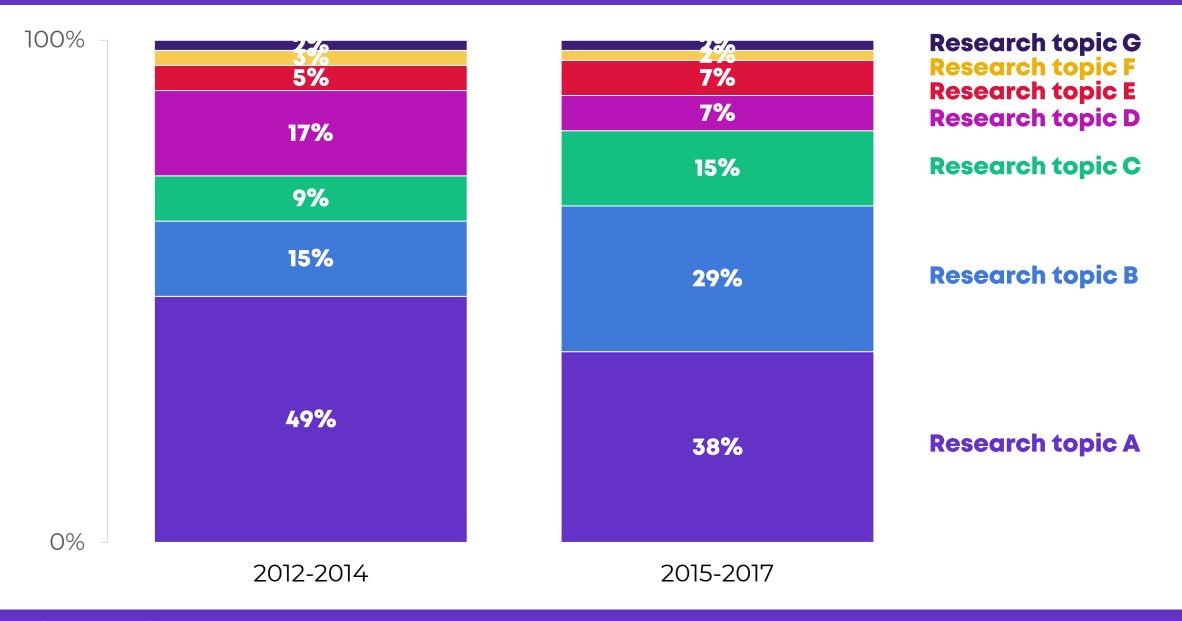




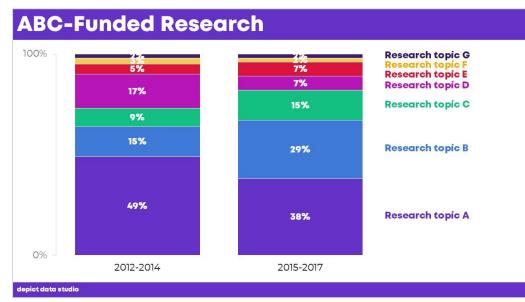


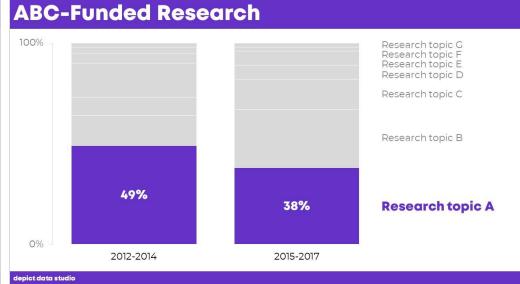


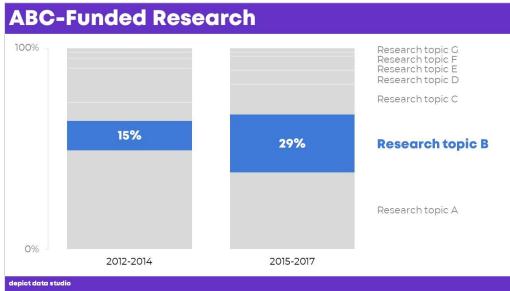


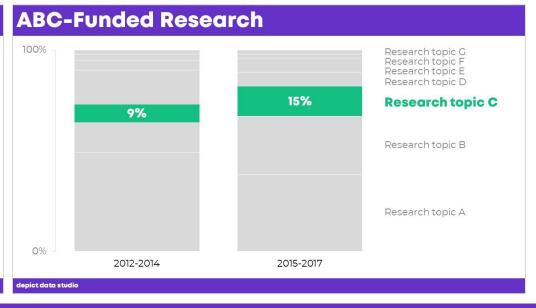


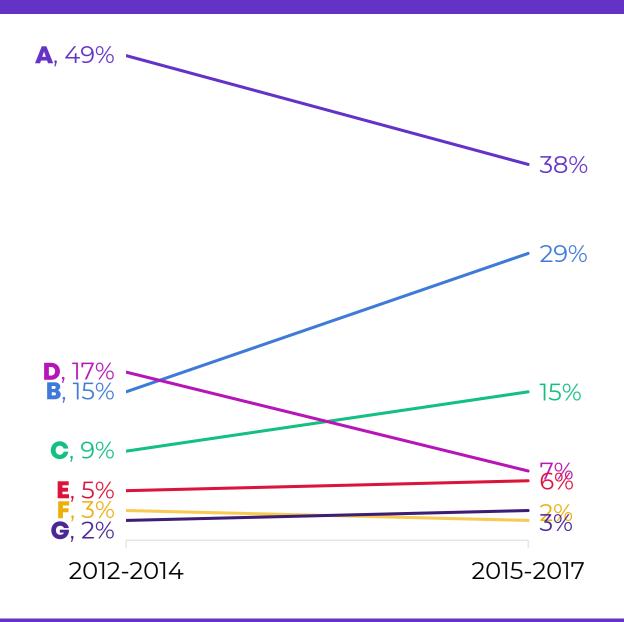
Storyboarding

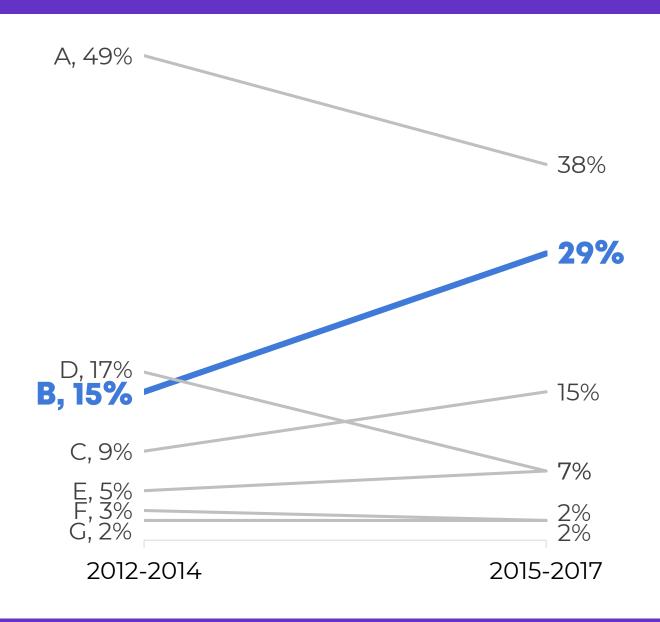




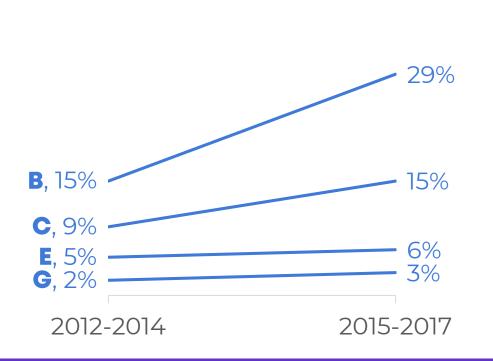




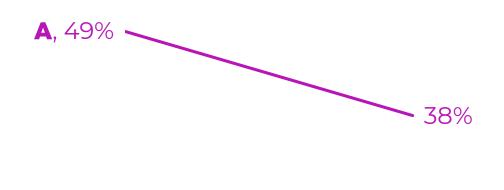


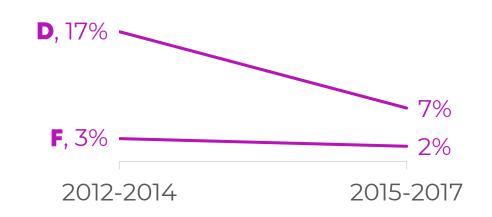






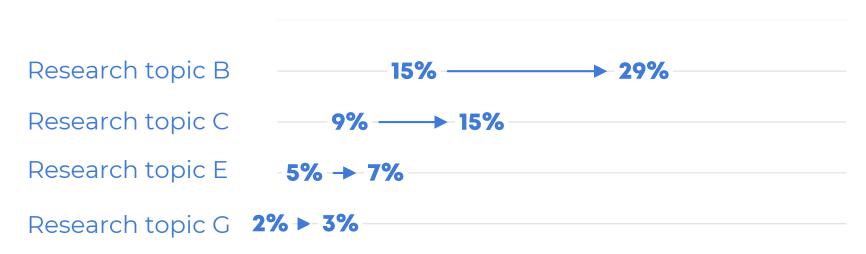






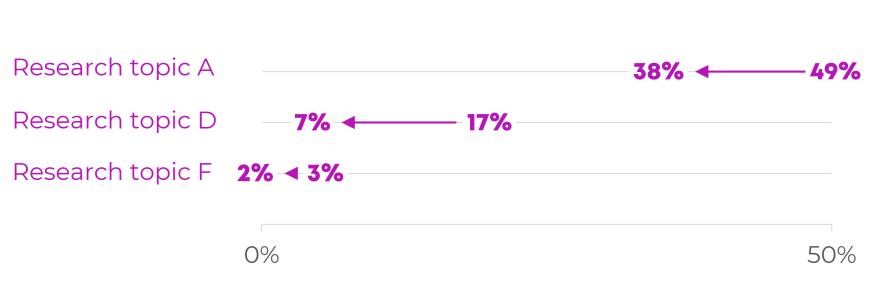


from 2012-2014 to 2015-2017



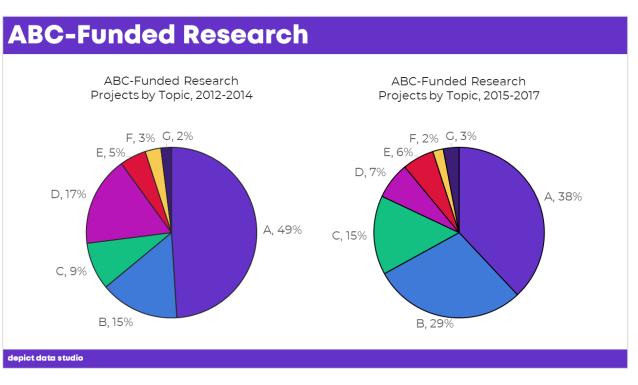


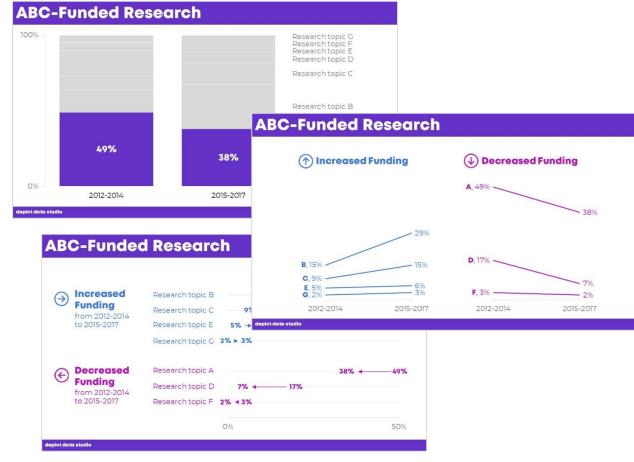
from 2012-2014 to 2015-2017



Comparing Across Two Pies







Take Notes!

- Add icons to increase memorability.
- Try a hex map to avoid the Alaska Effect.
- Avoid ALL CAPS because it takes longer to read.

Next Steps

- Try a Sankey Diagram for visualizing flow/pathways/sequences
- Try small multiples the next time you encounter a spaghetti graph
- Make sure pies only have 2 slices, and place the dark slice in the upper right corner
- Use real human icons (WeePeople)
- Horizontal text only (no diagonal or vertical text)
- Use whole numbers ("1 in 3") instead of percentages ("33%")
- Color code the chapters/sections
- Get rid of green-red (try blue-red instead)
- Try waffle charts
- Declutter
- Use storytelling
- Don't use ALL CAPS

Stay in Touch

Ann K. Emery
DepictDataStudio.com
@AnnKEmery

