Data Visualization Youth Radio and Rockman et al.

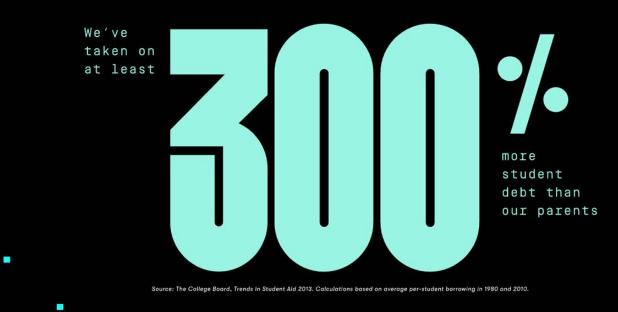
HE O

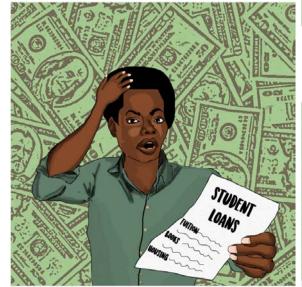
#iTestDataViz #itest2018

How does beautiful data enhance a story?

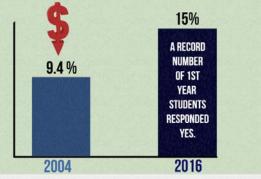


Sources: "Cashier or Consultant? Entry Labor Market Conditions, Field of Study, and Career Success," by Joseph G. Altonji, Lisa B. Kahn & Jamin D. Speer, Journal of Labor Economics, 2016; and "The long-term labor market consequences of graduating from college in a bad economy," by Lisa B. Kahn, Labour Economics, 2010. Projections assume initial earnings of \$50,000 and are based on the researchers' analysis of earnings during periods of growth and recession from 1980 to 2011.

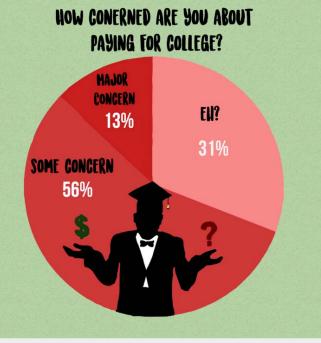




WERE YOU UNABLE TO AFFORD YOUR FIRST-CHOICE SCHOOL?



Illustrated by Dominik Vaughan. Based on 2016 survey data collected by The Cooperative Institutional Research Program of the Higher Education Research Institute at UCLA



Illustrated by DominIk Vaughan. Based on 2016 survey data collected by The Cooperative Institutional Research Program of the Higher Education Research Institute at UCLA

Illustrated by Dominik Vaughan/Youth Radio

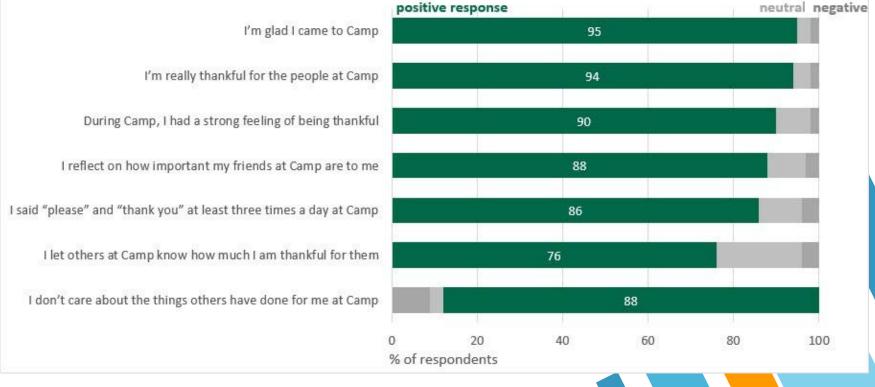
Moodring slide



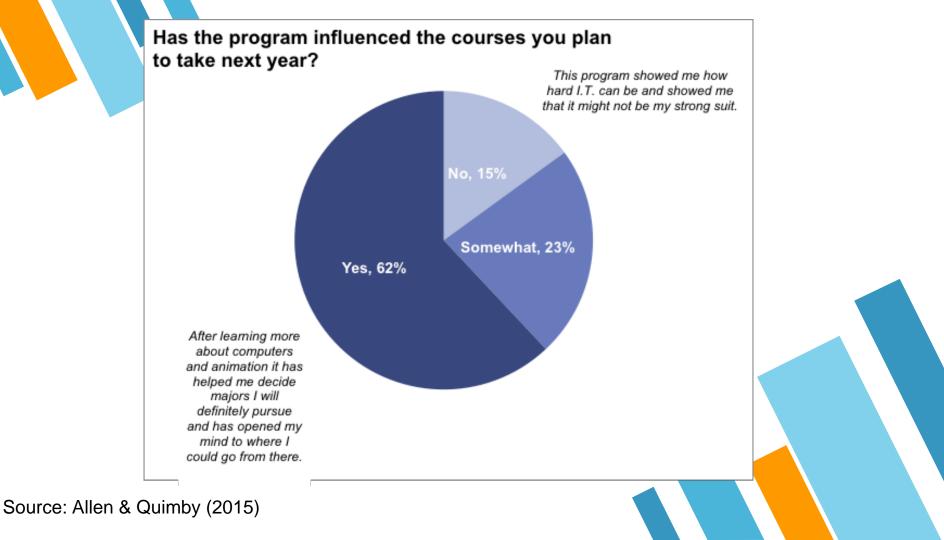
Data Viz is also for Evaluation!

Campers were overwhelmingly thankful for their Camp experience.

Note that the last question is intentionally negatively-worded.

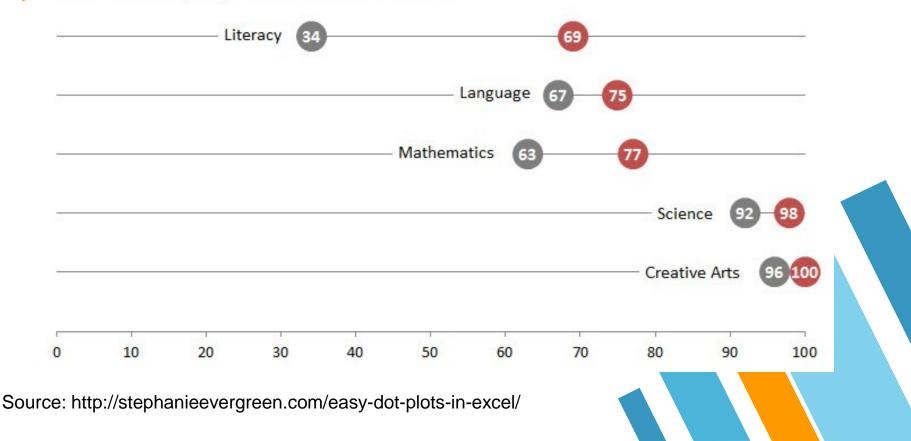


Source: http://stephanieevergreen.com/aggregated-stacked-bars/



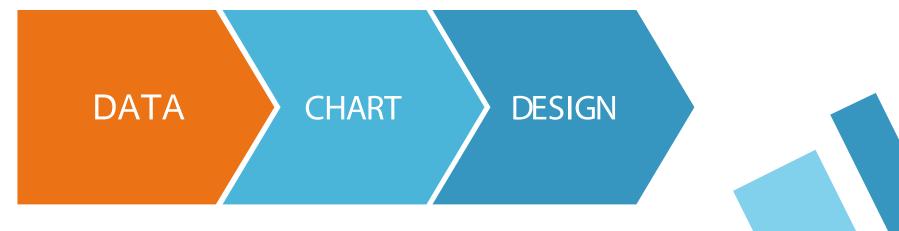
Kindergarten readiness increased between Fall and Spring.

Minimum entry requirement: 65% in all areas.





HOW DO WE GET THERE?



What is data?

Lead Candy Data Selection ☆ 🖿

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

	\$ % .0_	.00, 123 - Aria	- 10 - BZ - A- 🌺	- H + BR -	
	•	-			= •
California Depar	tment of Public H	lealth			
A	В	С	D	E	F
California Depart	ment of Public He	alth			
Candy Analysis	Data: 2013- 2014				
Updated: April 30	, 2014				
Candies With 🖻	•		ame 📼	ppm 📼	lead 🖻 pic
FD	F13C01094	7/19/2013	aravelle Panda Coconut Candy	0.06	yes
FD	F13C00551	5/17/2013	errilos Spicy and Sour Watermelon Lollypop Car	0.08	yes
FD	F13C00552	5/17/2013	errilos Spicy and Sour Watermelon Lollypop Car	0.08	yes
FD	F13C00860	6/17/2013	hina Top Brand Corn Flavor Soft Candy	0.06	yes
FD	F13C00084	2/15/2013	onfectious, Aussie Style Black LICORICE	0.13	yes
FD	F13C00083	2/15/2013	onfectious, Aussie Style Black LICORICE	0.14	yes
FD	F13C01084	8/2/2013	aiJoBu Lychee Candy	0.06	yes
FD	F12C02129	1/10/2013	ried Preserved Plum	1.6	yes
FD	F12C02130	1/10/2013	ried Preserved Plum	1.7	yes
FD	F13C01360	9/24/2013	I Super Leon Burrito de Tamarindo Candy	0.05	yes
FD	F13C01359	9/24/2013	I Super Leon Burrito de Tamarindo Candy	0.06	yes

Quantitative

numbers give a sense of scope

Average = total/# of people Mode = most common # Median = # in the middle Range = the lowest/highest #?

Qualitative Data

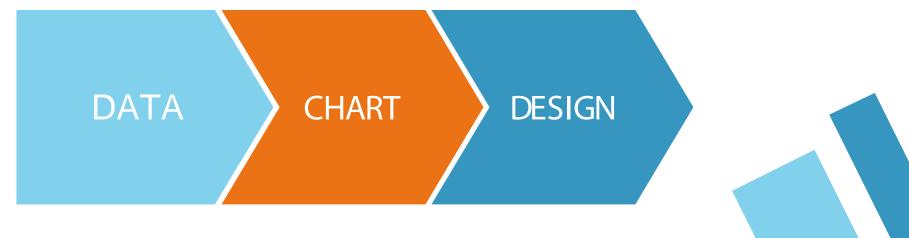
narrative provides flavor

Examples = what's the narrative? Rationale = what are the reasons? Background = what's the history/context?

Emotions = what are the stakes?

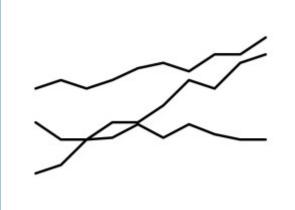


HOW DO WE GET THERE?

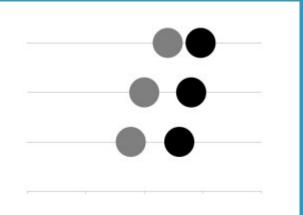


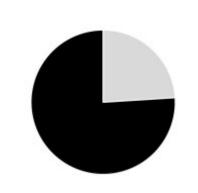
LINE HEAT MAP DUMBELL DOT PIE CHART STACKED BAR

via AnnKemery.com/essentials







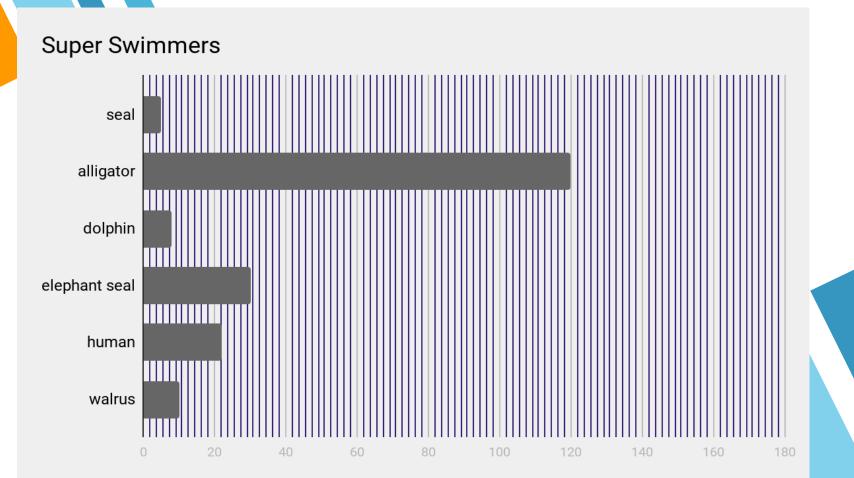


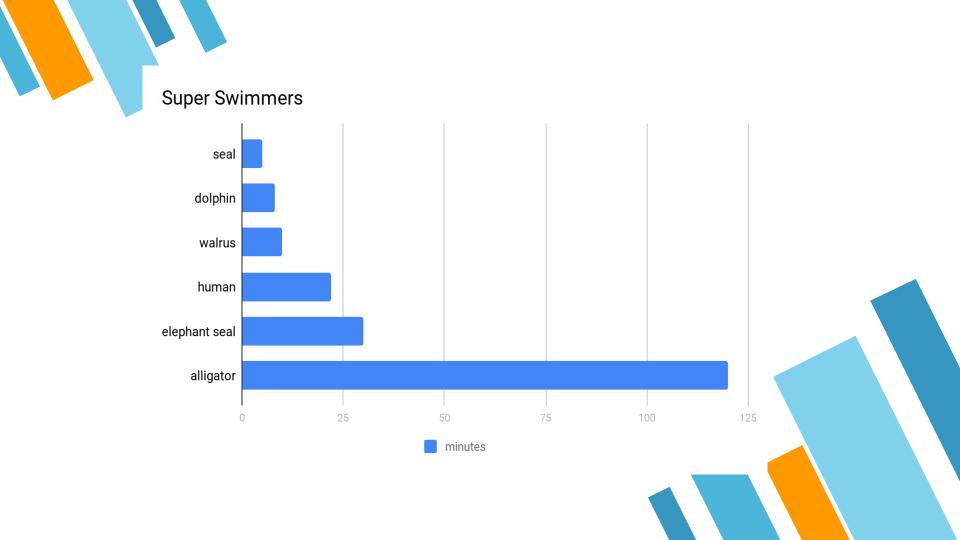


STAND UP!

YOU DID IT! You visualized

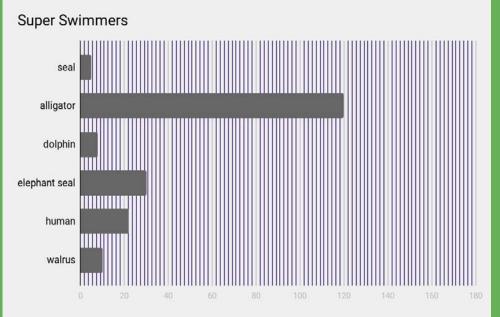
data!



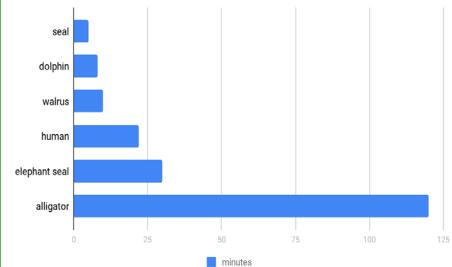


How do we get from here...

To here?



Super Swimmers



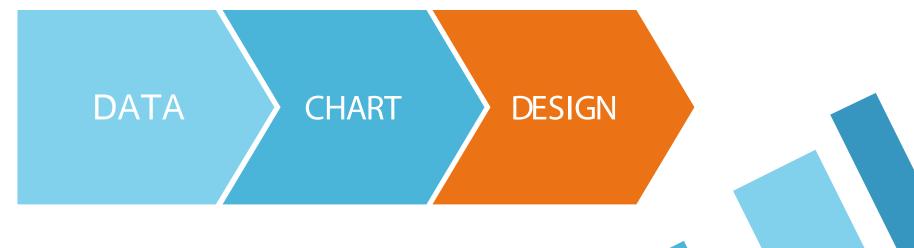
SHOW! DON'T TELL

Use visuals to make numbers, states, processes understandable.

Give scale, scope, or story.



HOW DO WE GET THERE?



BASIC PRINCIPLES OF DESIGN!

CRAP



Contrast 🛑 🍽 🔴

Repetition ••••

Alignment

Proximity :





Contras

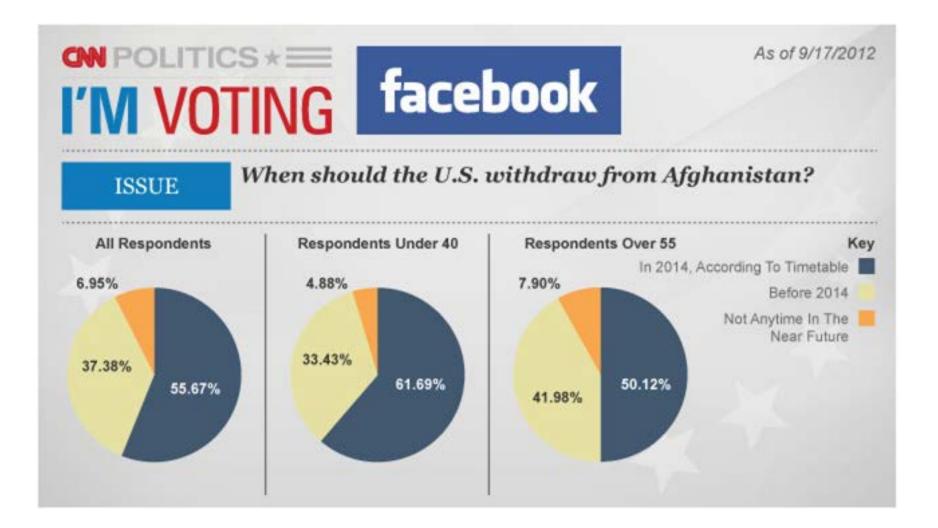
CONTRAST The arrangement of opposite elements (light vs. dark colors, rough vs. smooth textures, large vs. small shapes, etc.) in a piece to create visual interest, excitement and drama.



50 lazy not tweeted in the last week 5 loud mouths creating 75% of the tweets

Repetito

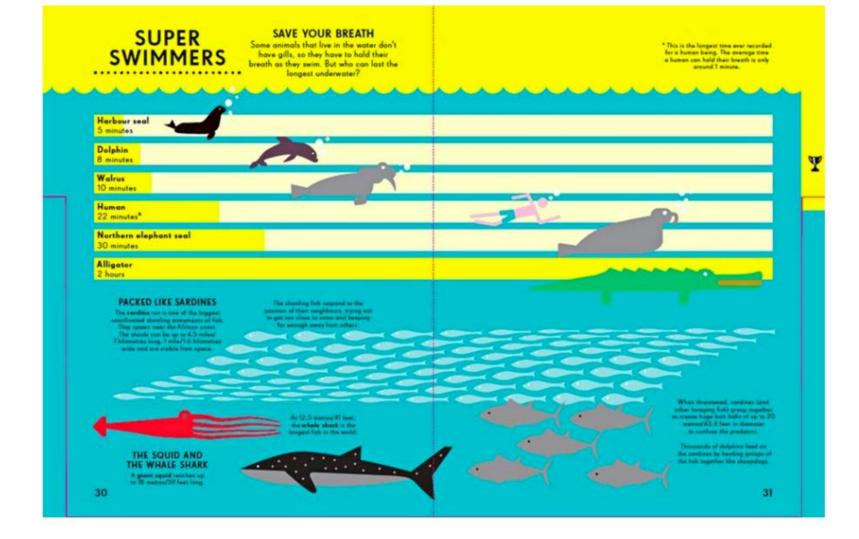
REPETITION The **repeating** of visual elements such as line, color, shape, texture, value or image, which tends to **unify** the total effect of a work of art as well as create rhythm.



Algnme



ALIGNMENT Line it up! The organization or grouping information or elements to create order and balance, or to call attention to a focal point of the design.



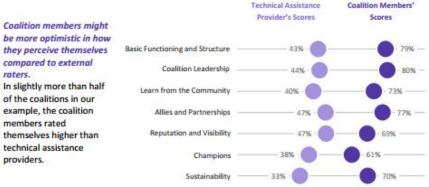
Proximit



PROXIMITY The closeness of groups that produces a bond or emphasizes a relationship between elements.

Who should provide a perspective on the coalition?

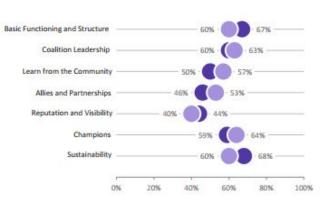
Coalition assessments are strongest when multiple perspectives are included, both internal and external to the coalition. We see value in including an array of voices from within the coalition: leaders, general members, senior participants, junior participants, and representation from a range of skill areas. In our example, an outsider perspective was also included; one technical assistance provider per coalition was included as a respondent to further ground the results and enhance the overall meaning of the data. The technical assistance provider's perspective allows us to triangulate the information, as shown in the dot plots below.



technical assistance providers. Sometimes, few differences exist between

raters.

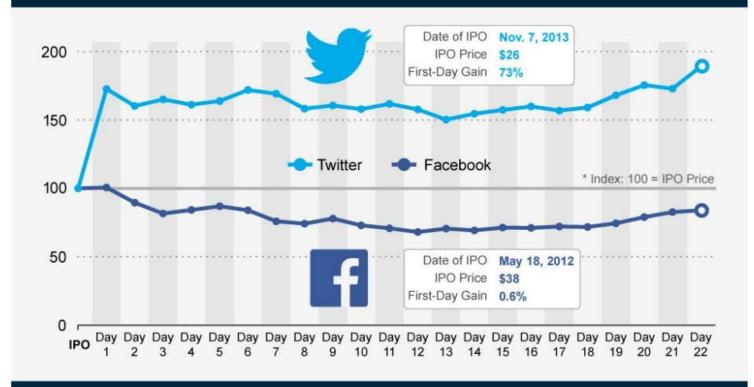
coalition members and technical assistance providers. For the remaining coalitions, the results are typically mixedsometimes the coalition members view themselves in the capacity areas than the technical assistance providers; other times, the technical assistance providers give higher ratings.



What's CRAP about this?

Twitter Avoids Facebook's IPO Mistake by Making Another

Stock performance of Twitter and Facebook in the first 22 trading days after their respective IPOs*





Source: Yahoo! Finance

But... what about qualitative data? Can you make that beautiful?





The East Coast, Unaffiliated "Meh" Voter

Sayre Quevedo, 23, College student in Brooklyn, New York

<u>Mood:</u> I feel pretty ambivalent about the whole thing. I want to be informed, so I'm paying attention, but I'm not feeling particularly engaged. In the evening, I'll be at the boxing gym trying to distract myself from the election as long as possible. Still, I'll be checking in on Twitter. My roommates are both socialists who didn't watch the debates, so I figure I'll do what I did then: watch on my laptop in my room alone. My bed is my comfort object. I'm going to bed at 10 p.m. no matter what. I'll need energy to deal with all the people talking about politics in class tomorrow.

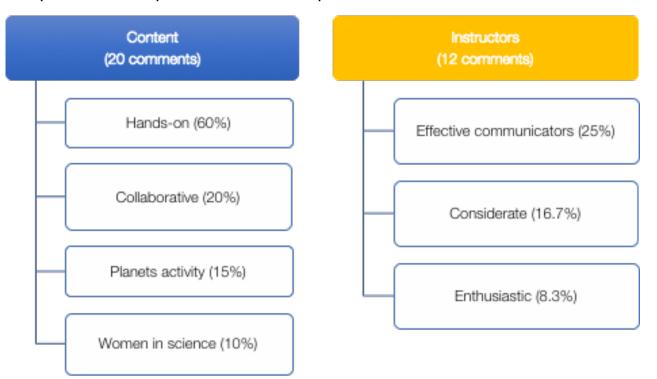
Music: No clue. I think silence would be nice.

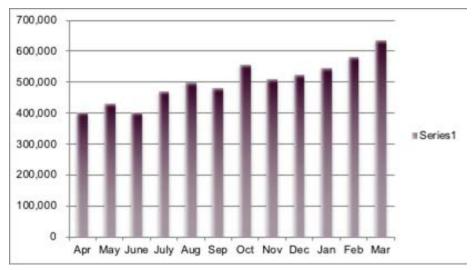
Participants gave five main reasons for enrolling in the course.

Final quote from really good reason 1 response, lalalalala

Reason 5, 9%
Reason 4, 10%
Reason 3, 22%
Reason 2, 27%
Reason 1, 32%

Workshop content, especially the hands-on activities, was the most effective component of the professional development.

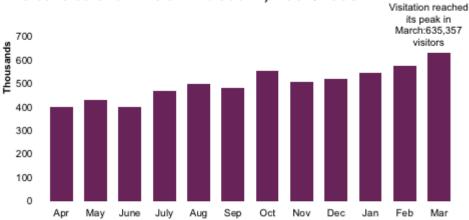




Before

After





Source: Allen & Quimby (2015)

Chart Checklist



Select your story

Reduce the clutter

Directly label

Emphasize key findings with color

Summarize your story in the headline

https://www.slideshare.net/annkemery/ann-emerydatavizforphilanthropists

Make your data BEAUTIFUL!

How does this enhance your story?

15 minutes

Make your data BEAUTIFUL!

- 1. What data will you use?
- 2. Quantitative? Qualitative?
- 3. What story are you telling?
- 4. What type of chart are you using? Why?
- 5. Is it CRAP?
- 6. What data is missing? What info would you want?



Let's see how you CIC

RESOURCES + QUESTIONS

Teach Youth Radio Curriculum

Telling Stories With Data

Data is a key part of the way we make stories, fun, relevant and accurate. In this unit, you'll learn how to turn data into engaging transmedia stories about the world we live in. youthradio.org/teach-youth-radio/diy-toolkit-telling-stories-with-data/

How to Make an Infographic

In this lesson, we'll walk you through the basics of making your own infographic depending on the data at hand. youthradio.org/journalism/science/diy-how-to-make-an-infographic/

Data Viz for Evaluators!

- Ann Emery: http://annkemery.com
- Stephanie Evergreen: http://stephanieevergreen.com
- AEA resources (slide and presentations): http://www.eval.org/page/p2i-tools
- Qualitative chart chooser: http://stephanieevergreen.com/wp-content/uploads/2017/11/Qualitative-Chooser-3.pdf
- Data visualization checklist: http://annkemery.com/checklist/

Resources to make your designs POP for free!!

- Coolors.co An awesome color scheme generator. Super fun to use! <u>coolors.co</u>
- Google Fonts A huge database of downloadable, web-safe fonts. fonts.google.com
- Pixabay A collection of royalty-free photos, illustrations, vector images, and even videos. pixabay.com
- The Noun Project Tons of royalty-free icons from a variety of designers. thenounproject.com
- Canva Online graphic design tool. Very intuitive & no download necessary. <u>www.canva.com</u>