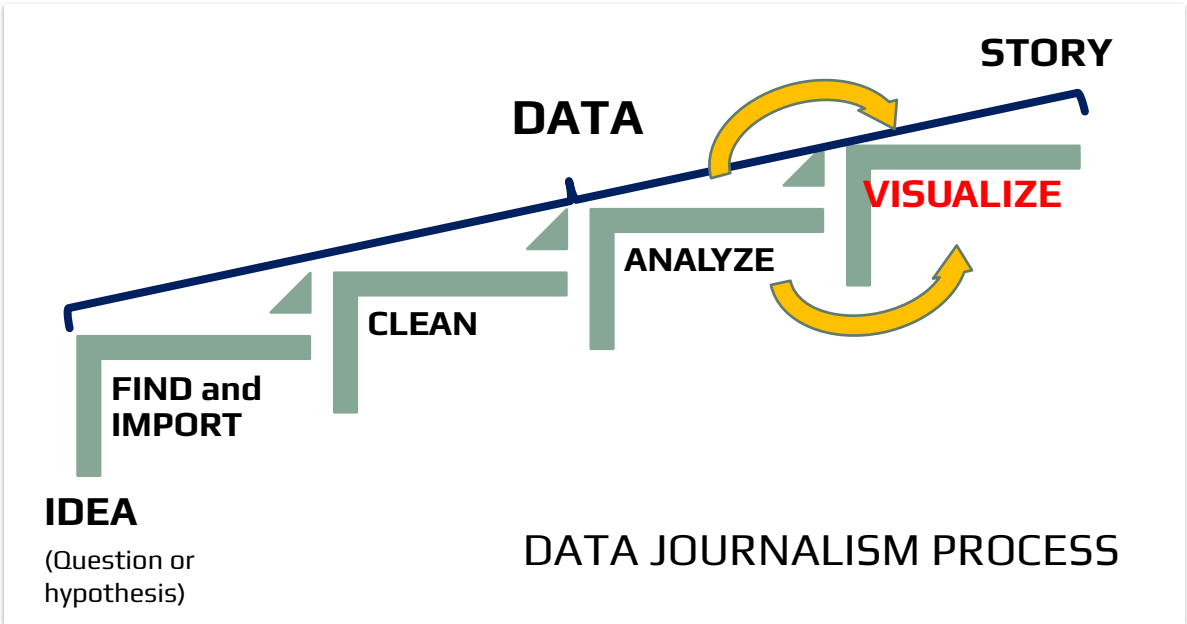


Visualizing data

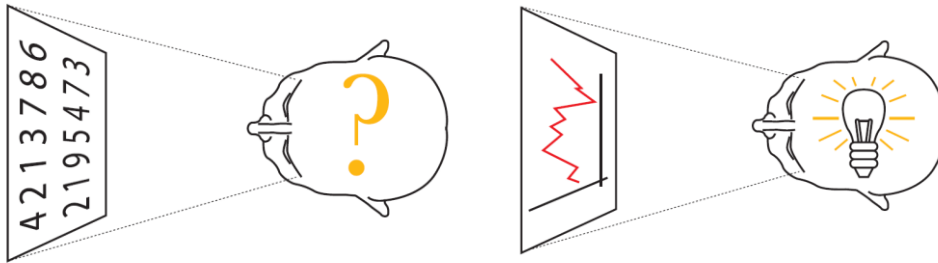
Yvonne T. Chua | University of the Philippines

1



2

Making sense of data



Alberto Cairo • University of Miami • www.thefunctionalart.com • Twitter: @albertocairo

3

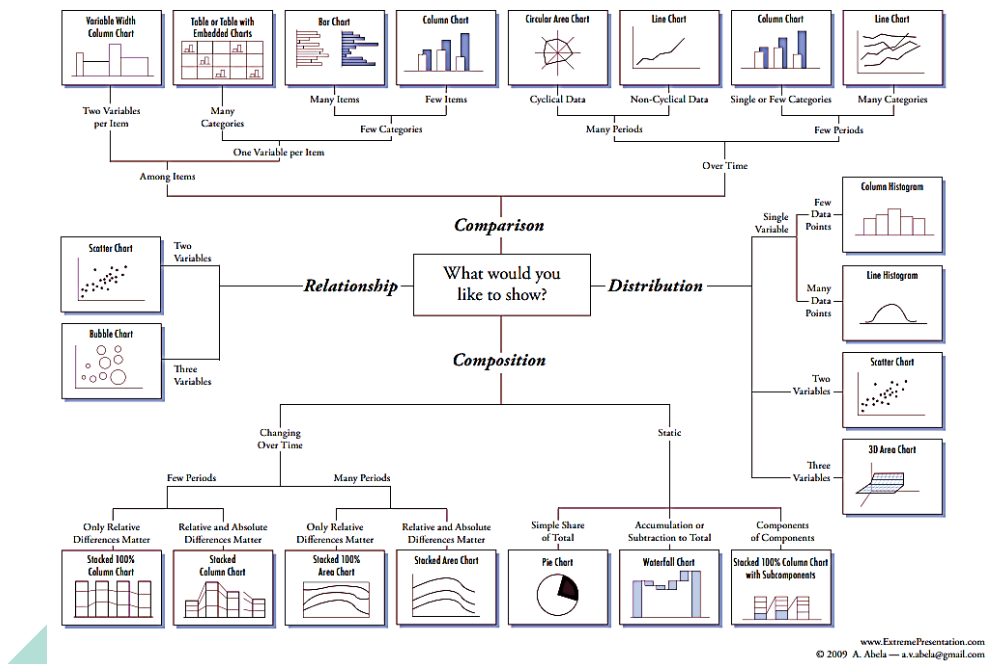
data visualization (or data viz)

visual display of data and
information intended to enable
**analysis, communication or
understanding**



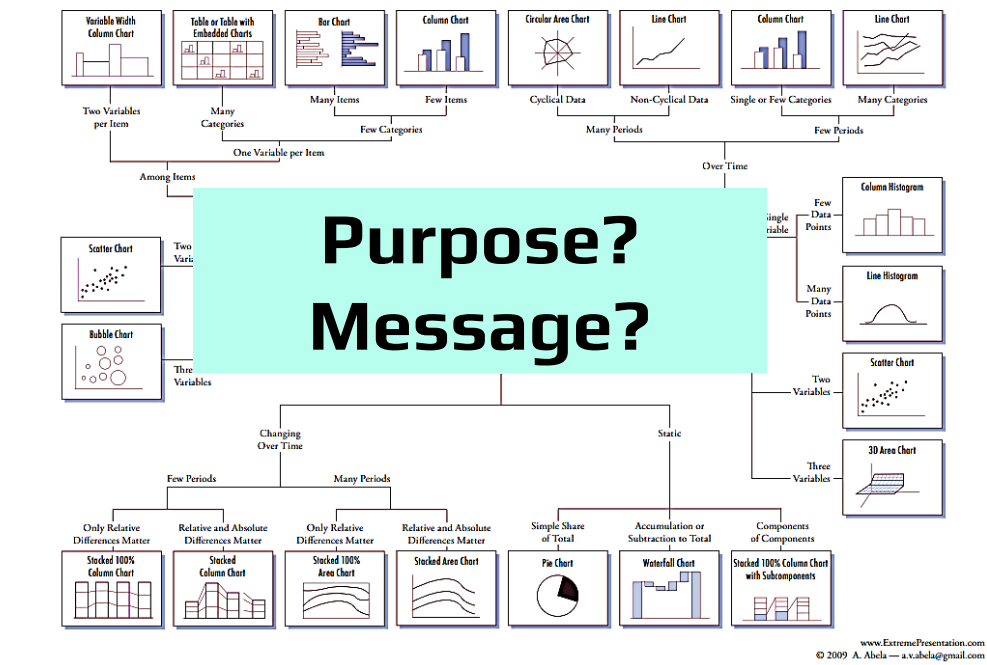
4

Chart Suggestions—A Thought-Starter



5

Chart Suggestions—A Thought-Starter



6

Visualizing data with Excel & Google Sheets

7



Overview and key findings of the 2023 Digital News Report

Nic Newman
14th June 2023

This year's report comes against the backdrop of a global cost-of-living crisis, a continuing war in the heart of Europe, and further climate instability across the world. In this context, a strong supply of accurate, well-funded, independent journalism remains critical, but in many of the countries covered in our survey, we find these conditions challenged by low levels of trust, declining engagement, and an uncertain business environment.

8

Correlation Coefficient (r)	Description (Rough Guideline)
+1.0	Perfect positive + association
+0.8 to 1.0	Very strong + association
+0.6 to 0.8	Strong + association
+0.4 to 0.6	Moderate + association
+0.2 to 0.4	Weak + association
0.0 to +0.2	Very weak + or no association
0.0 to -0.2	Very weak - or no association
-0.2 to – 0.4	Weak - association
-0.4 to -0.6	Moderate - association
-0.6 to -0.8	Strong - association
-0.8 to -1.0	Very strong - association
-1.0	Perfect negative association

Correlation
coefficient

Visualizing data with Datawrapper

National Demographic and Health Survey

Home > National Demographic and Health Survey

Teenage Pregnancy Declined from 8.6 percent in 2017 to 5.4 percent in 2022

Release Date: Friday, January 20, 2023

Release Date: 2023-011

Teenage pregnancy among Filipino women aged 15 to 19 years declined from 8.6 percent in 2017 to 5.4 percent in 2022. Among women aged 15 to 19 years who have ever been pregnant as of 2022, the highest percentage was recorded in woman aged 19 years (13.3%). This was followed by women aged 18 years (5.9%) and women aged 17 years (5.6%). As expected, the lowest percentage of women aged 15 to 19 years who have begun childbearing was for those who were aged 16 years (1.7%), followed by women aged 15 years (1.4%). (Figure 1)


Teen pregnancy

<https://psa.gov.ph/statistics/national-demographic-health-survey>

11

Good data viz

12



**‘Data looks better
NAKED’**
—Joey Cherdarchuk

‘DATA-INK** is the
non-erasable core
of the graphic’**
—Edward Tufte

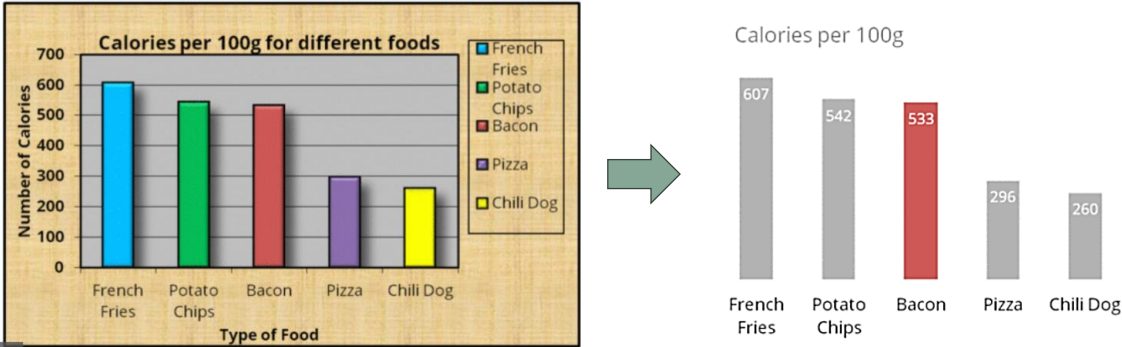
13

Remove
to improve
(the **data-ink** ratio)

Created by Darkhorse Analytics

www.darkhorseanalytics.com<https://www.darkhorseanalytics.com/blog/data-looks-better-naked>

14



15

Remove
to improve
the **pie chart** edition

Created by Darkhorse Analytics www.darkhorseanalytics.com

<https://www.darkhorseanalytics.com/blog/salvaging-the-pie>

Remove
to improve
the **data tables** edition

Created by Darkhorse Analytics www.darkhorseanalytics.com

<https://www.darkhorseanalytics.com/blog/clear-off-the-table>

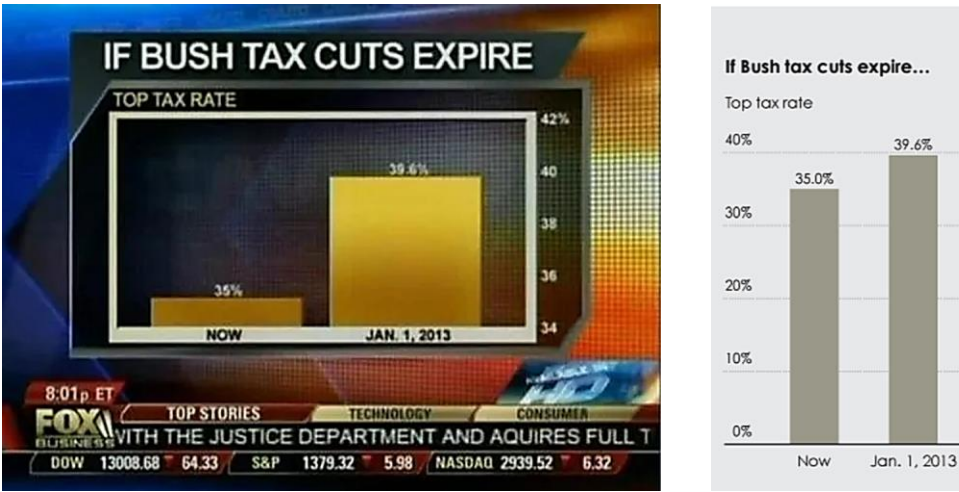
Remove
to improve
the **map** edition

Created by Darkhorse Analytics www.darkhorseanalytics.com

<https://www.darkhorseanalytics.com/blog/data-looks-better-naked-maps-edition>

16

Effect of truncating or ‘baseline failure’

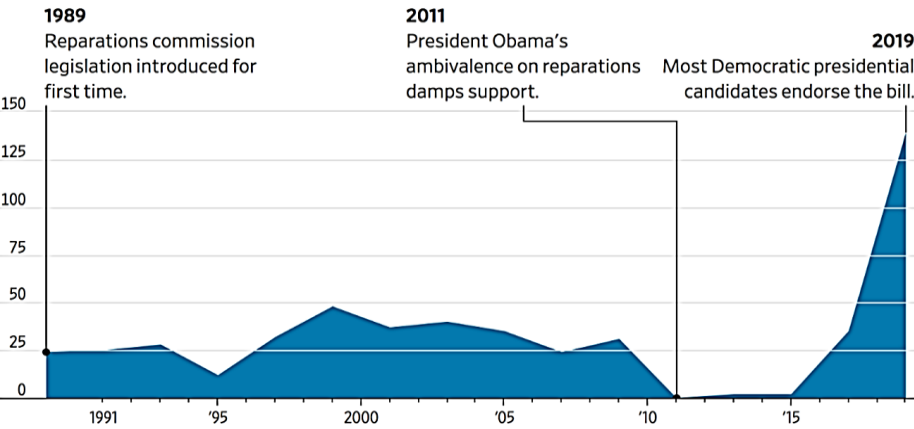


17

Slavery Reparations

Support is rising in Congress for legislation creating a commission studying reparations to Black Americans for slavery and discrimination, raising prospects for House passage this year.

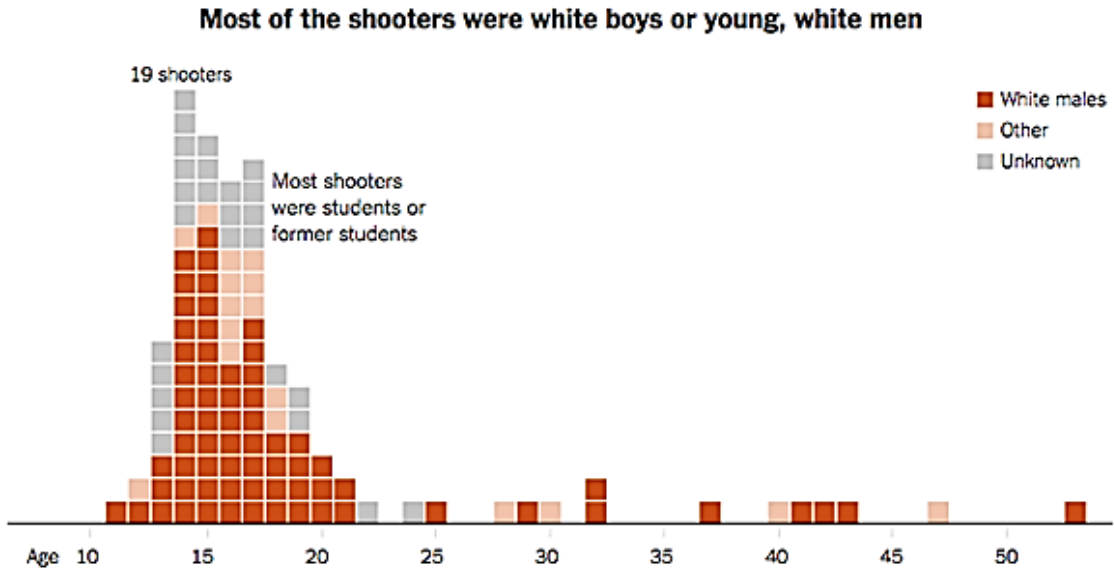
Number of co-sponsors for House reparations legislation



* As of July 21
Source: Congress.gov

Wall Street Journal

18



New York Times

19

DATA COLOR PICKER

UI COURSE UX COURSE BLOG TOOLS DESIGN HACKS

PALETTE SINGLE HUE DIVERGENT

PALETTE GENERATOR

NUMBER OF COLORS: 3 4 5 6 7 8

BACKGROUND COLOR: LIGHT DARK

#00375c #50508d #bc5090 #ff6361 #ffa500

COLORBREWER 2.0

color advice for cartography

Number of data classes: 3

Nature of your data: sequential diverging qualitative

Pick a color scheme: Multi-hue Single hue

Only show: colorblind safe print friendly photocopy safe

Context: roads cities borders

Background: solid color terrain

3-class BuGn

HEX: #e5f5f9 #99d8c9 #2ca25f

<https://www.learnui.design/tools/data-color-picker.html>

<https://colorbrewer2.org/#type=sequential&scheme=BuGn&n=3>

20

**‘Learn the rules like a pro, so you
can break them like an artist’**

-- attributed to Pablo Picasso