Enhancing graphics

Session 10

PMAP 8921: Data Visualization with R Andrew Young School of Policy Studies Summer 2024

Typical publication workflow

Create plot in R and ggplot2

Export plot as a vector

Edit the vector in an external program to make it match in-house style (or just be fancy and well-designed in general)

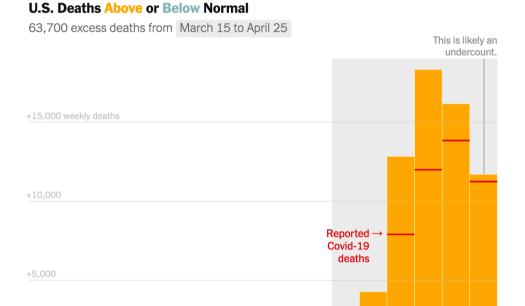
or

Extract parts of the vector for use in Javascript for interactivity

In-house styles

Jan.

Catchers have taken over as the worst hitters in baseball Offensive efficiency, as measured by weighted runs created plus (wRC+), by position in MLB since 2001 120 110 *** KG** 100 90 **Shortstops Catchers** 80 FiveThirtyEight SOURCE: FANGRAPHS



Note: The chart shows the difference between measured deaths and expected deaths each week. Overall deaths above the expected number are considered to be "excess deaths." This chart does not include eight states with unreliable data.

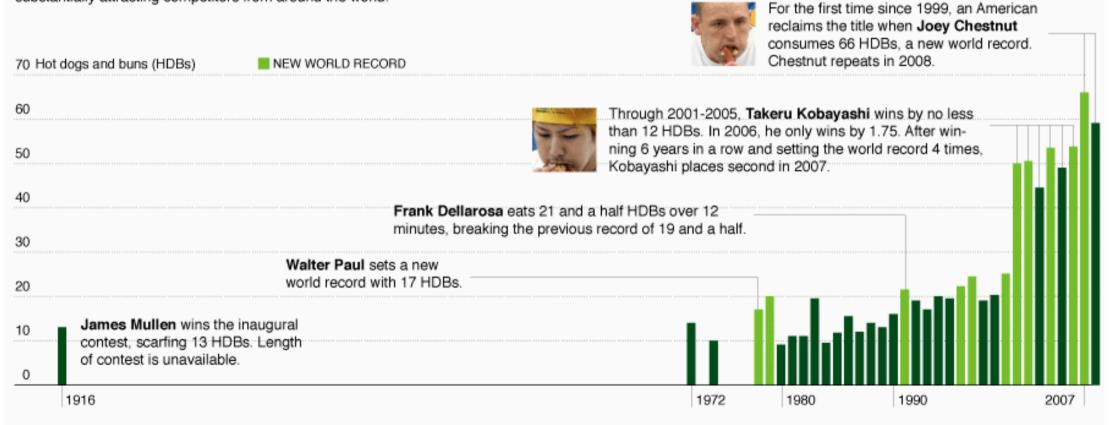
March

April

Hot dogs

Winners from Nathan's Hot Dog Eating Contest

It's that time of year again. Since 1916, the annual eating competition has grown substantially attracting competitors from around the world.

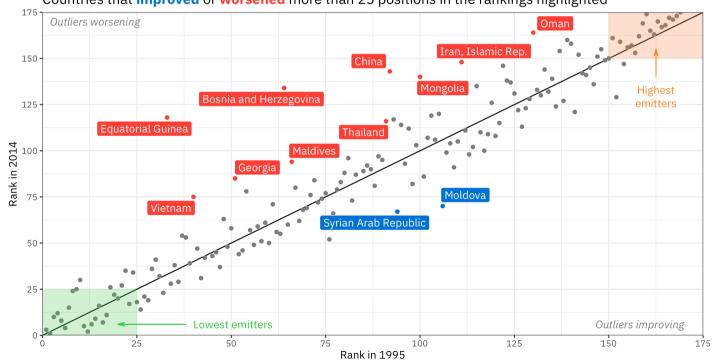


This is all changing though!

This was made 100% in R and ggplot!

Changes in CO₂ emission rankings between 1995 and 2014

Countries that improved or worsened more than 25 positions in the rankings highlighted



Source: The World Bank. Countries with populations of less than 200,000 excluded.

The way of the future

{patchwork} and {ggtext} are removing the need to edit graphs by hand in Illustrator

You can replicate an entire in-house graphic style with R alone nowadays

Interactivity not quite at the same level, but it's getting there with {plotly}