Scientist by

→ population and community dynamics, movement ecology, wildlife diseases

- **M.Sc. in *Ecology, Evolution & Nature Conservation***
  University of Potsdam 2011–2014
- **Ph.D. in *Ecology***
  Research Training Group "BioMove" 2015–2019
- **PostDoc in *Computational Ecology***
  Leibniz Institute for Zoo and Wildlife Research (IZW) 2019–

DataViz Specialist by

→ analysist, designer, consultant, workshop instructor

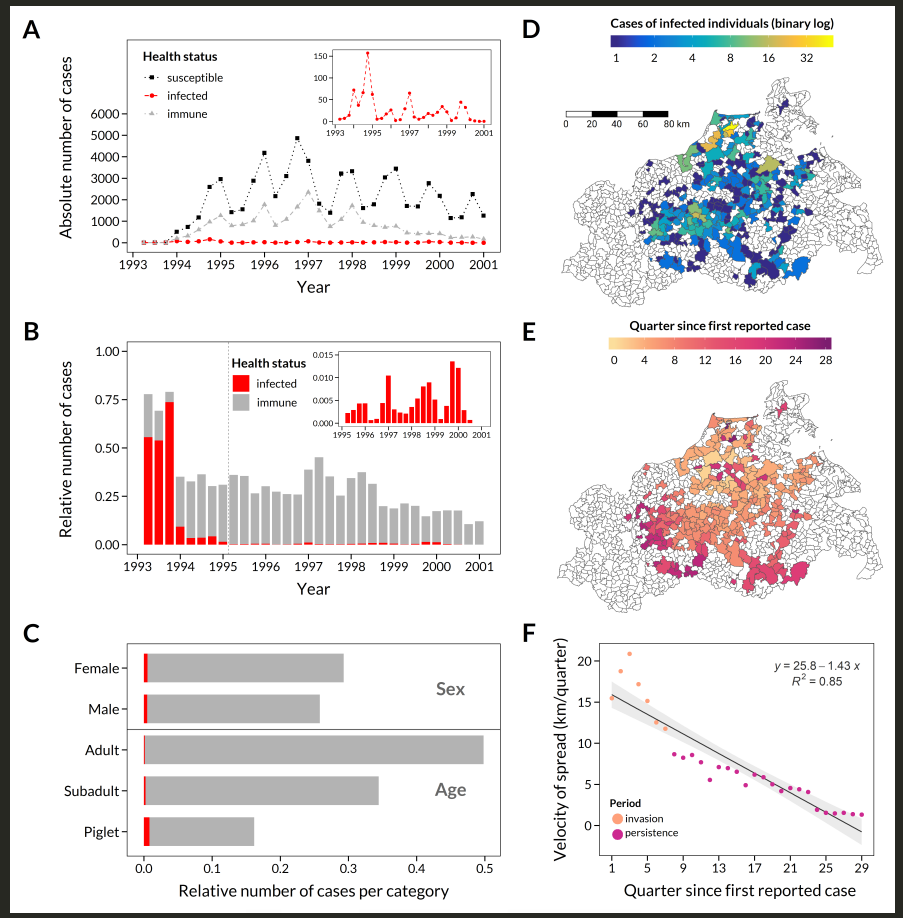
- **Freelancing Data Visualization Designer**
- **Data Challenges and Personal Projects**
  #TidyTuesday, #30DayMapChallenge, #MakeoverMonday, #SWDchallenge

Scientist by Data Viz Specialist by

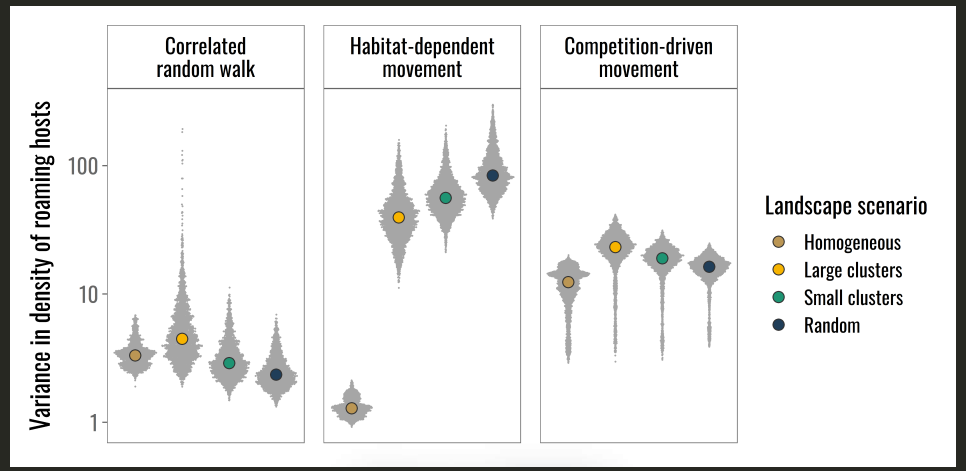
RStudio

R

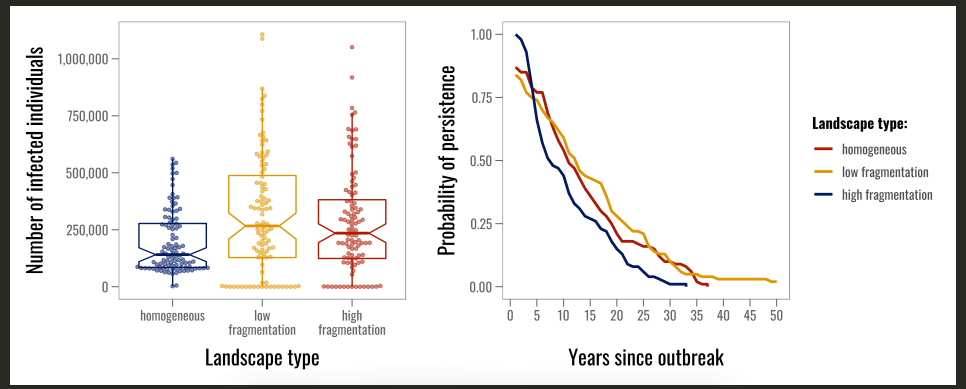
Data Visualizations for Scientific Publications & Talks



Scherer et al. 2019 Journal of Animal Ecology

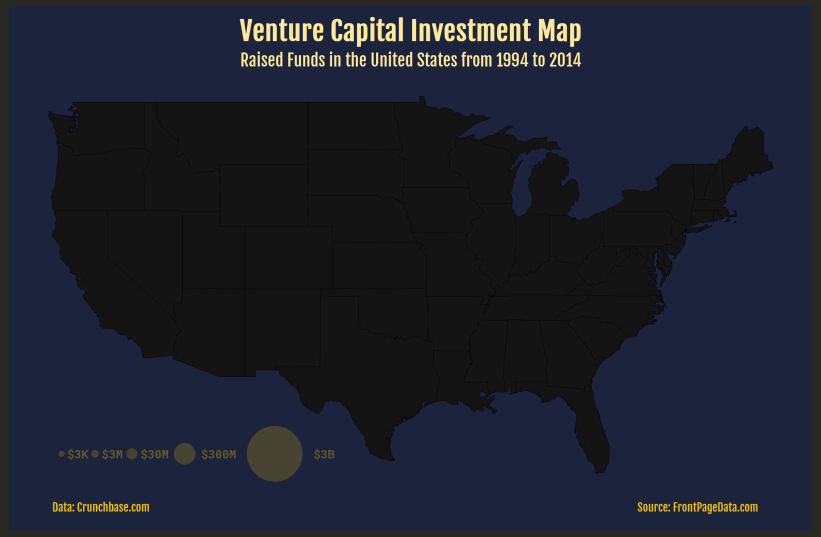


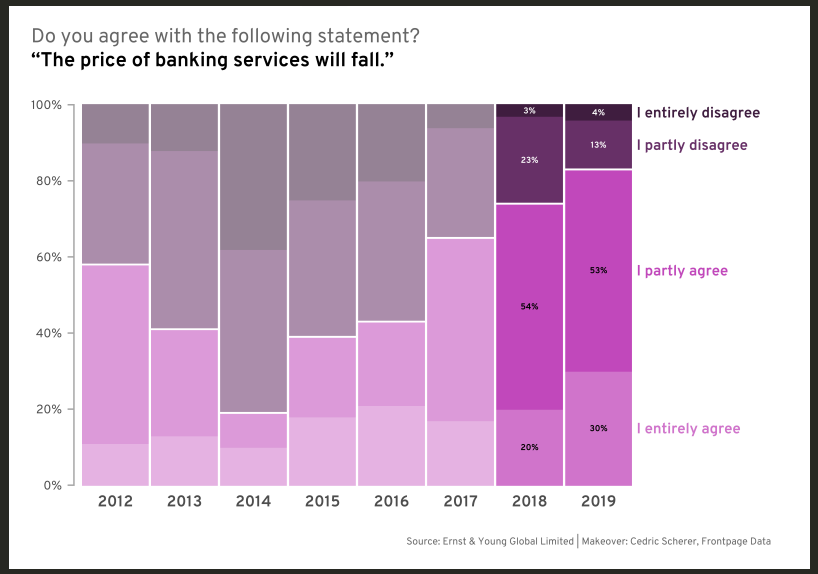
Scherer et al. 2020 Oikos

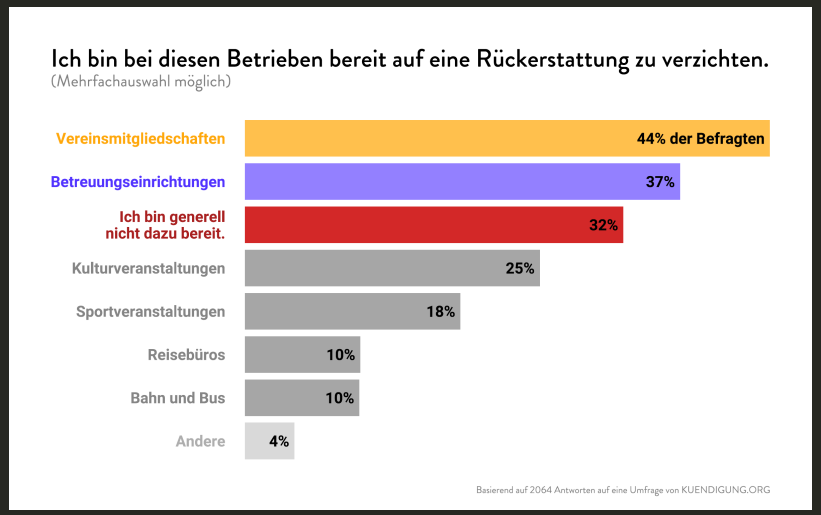


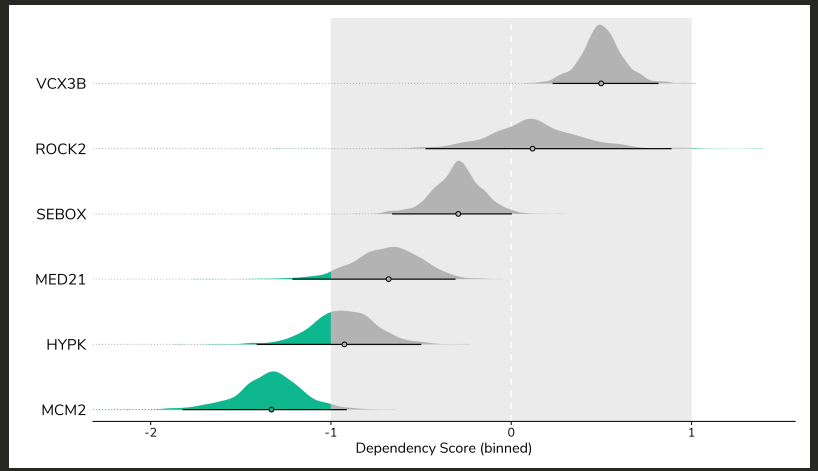
Sciaini et al. 2019 Methods in Ecology & Evolution

Data Visualizations for Client Projects

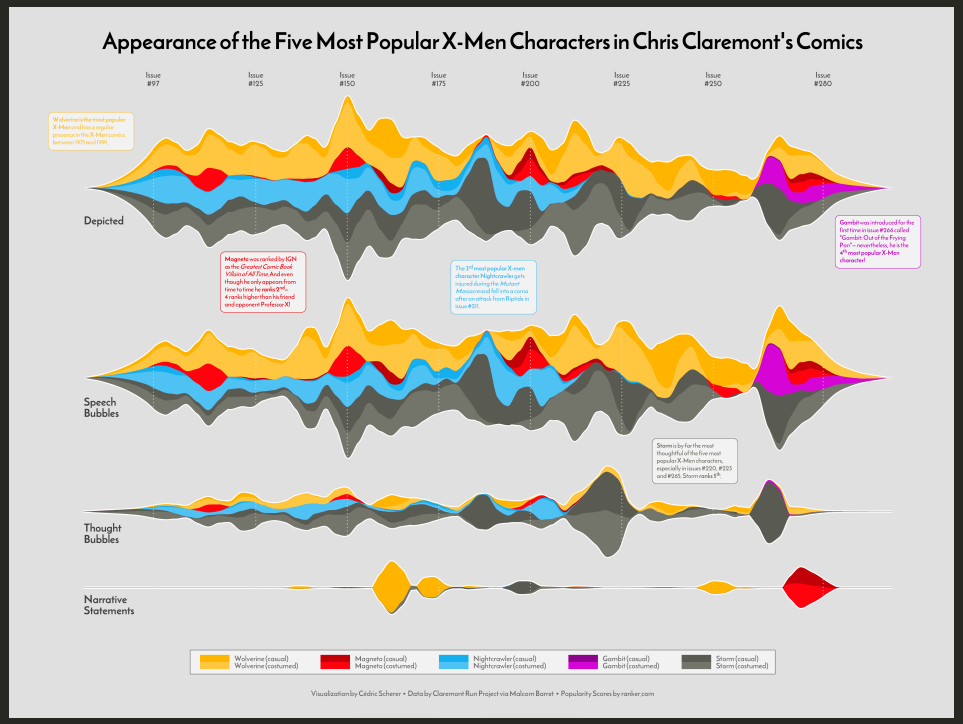




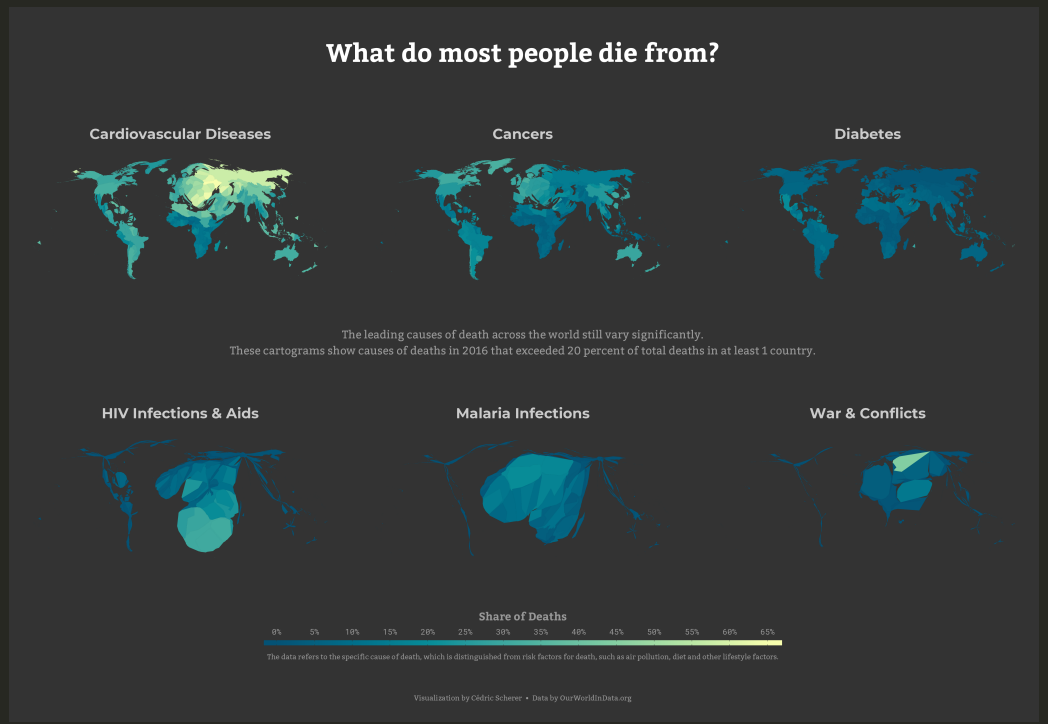




Data Visualizations as Challenge Contributions

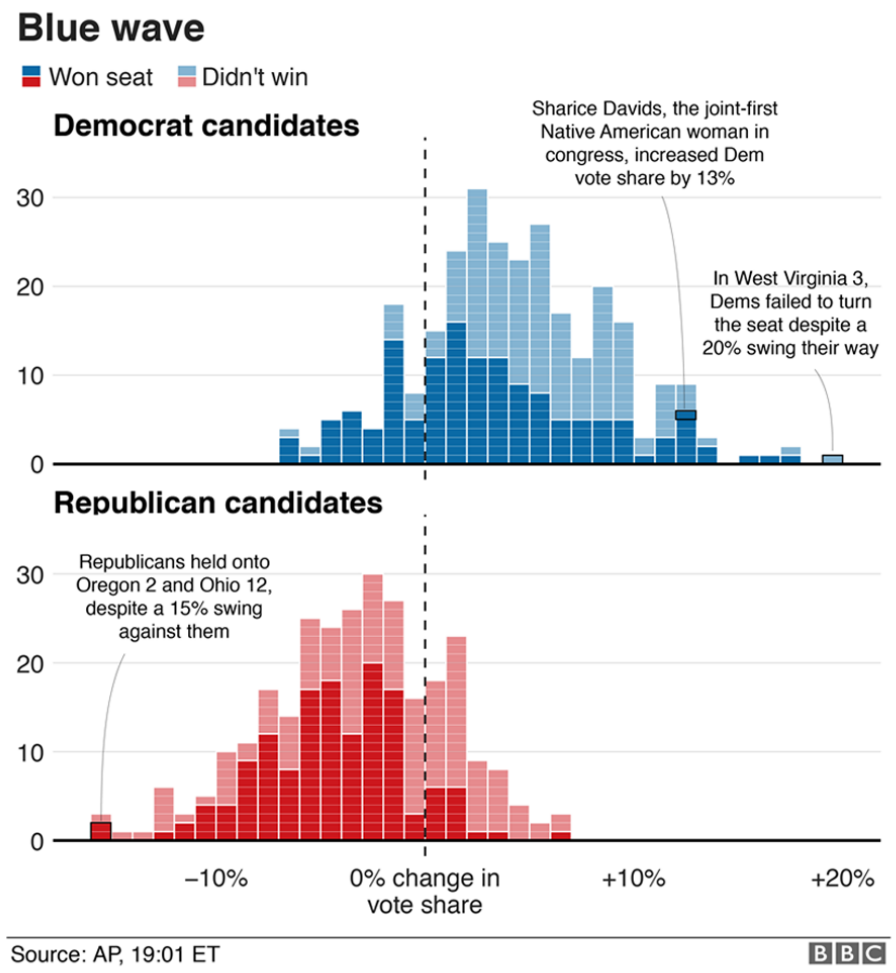


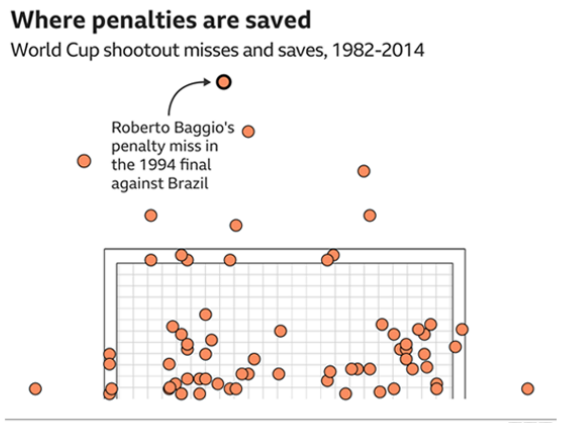
Contribution to #TidyTuesday

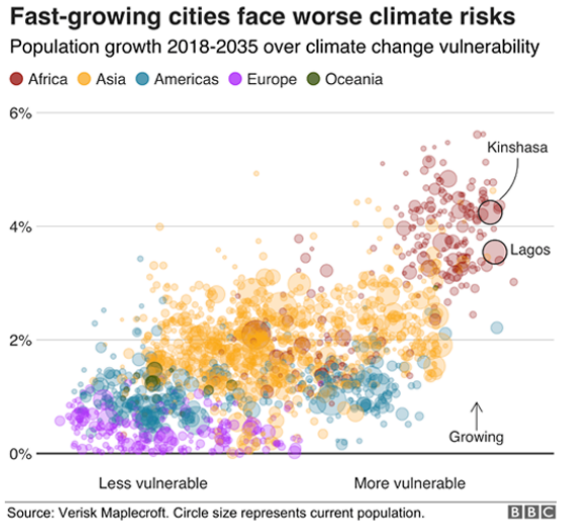


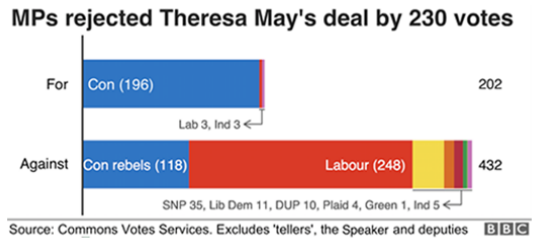
Contribution to #30DayMapChallenge

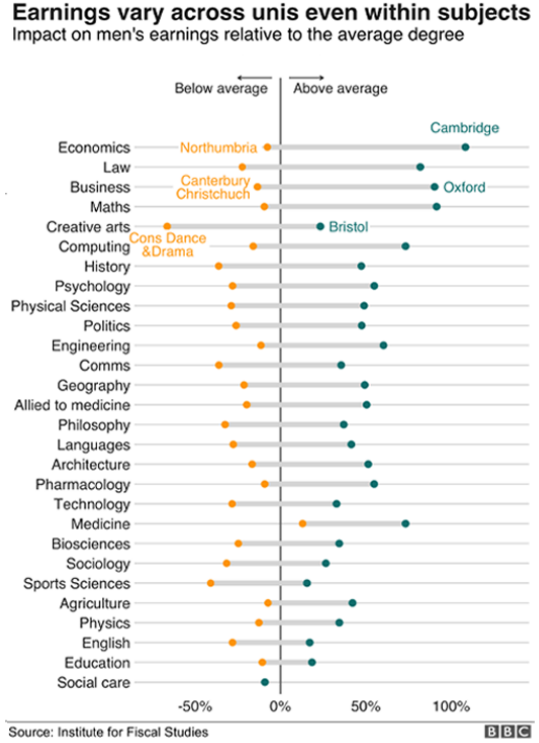
The ggplot2 Showcase





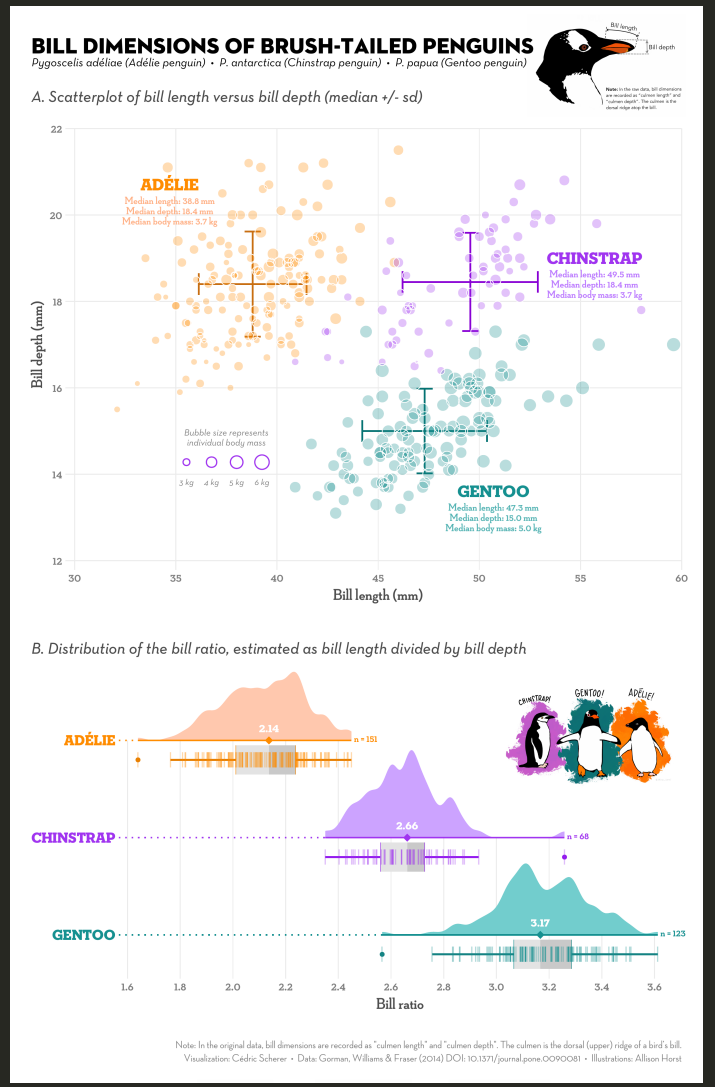




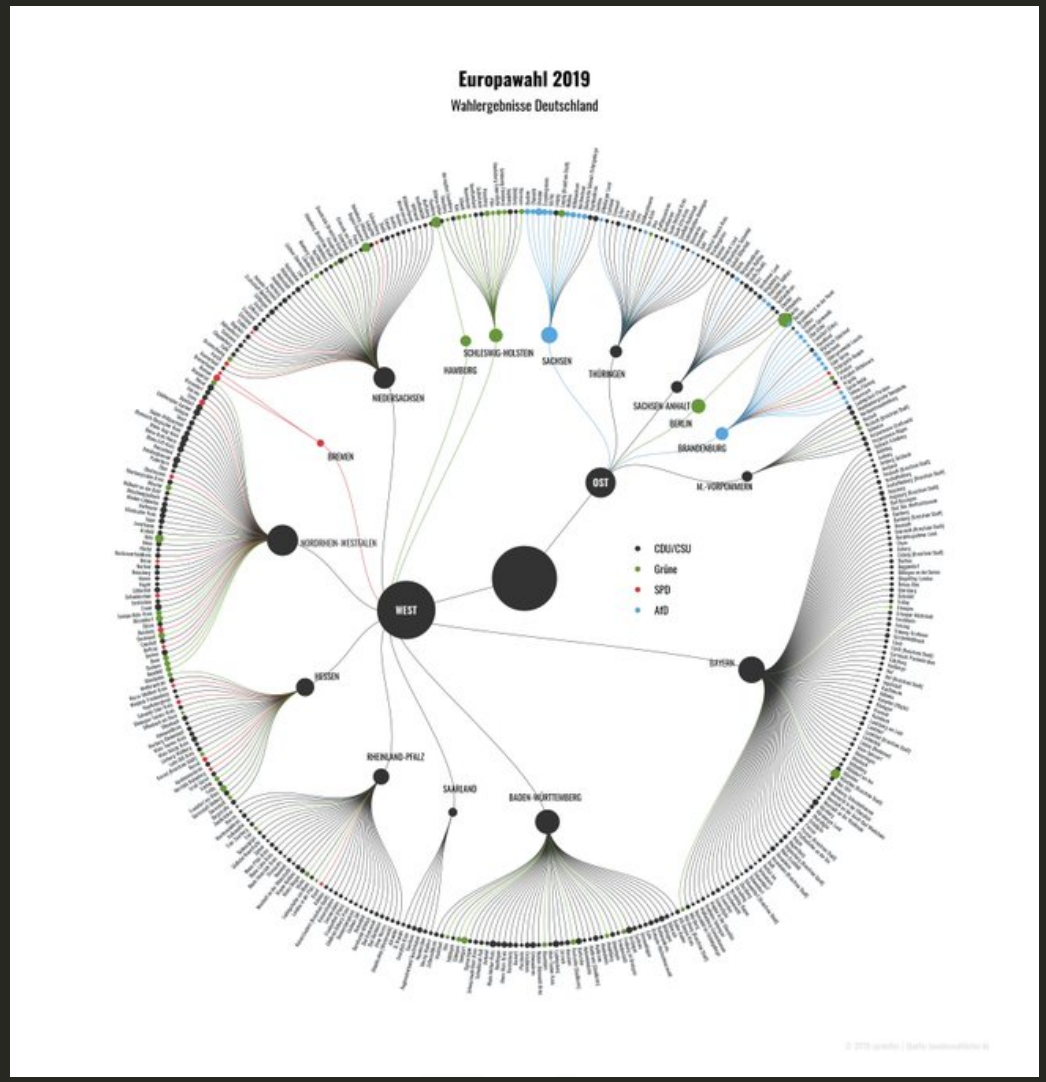


Collection of BBC Graphics

(modified from bbc.github.io/rcookbook)

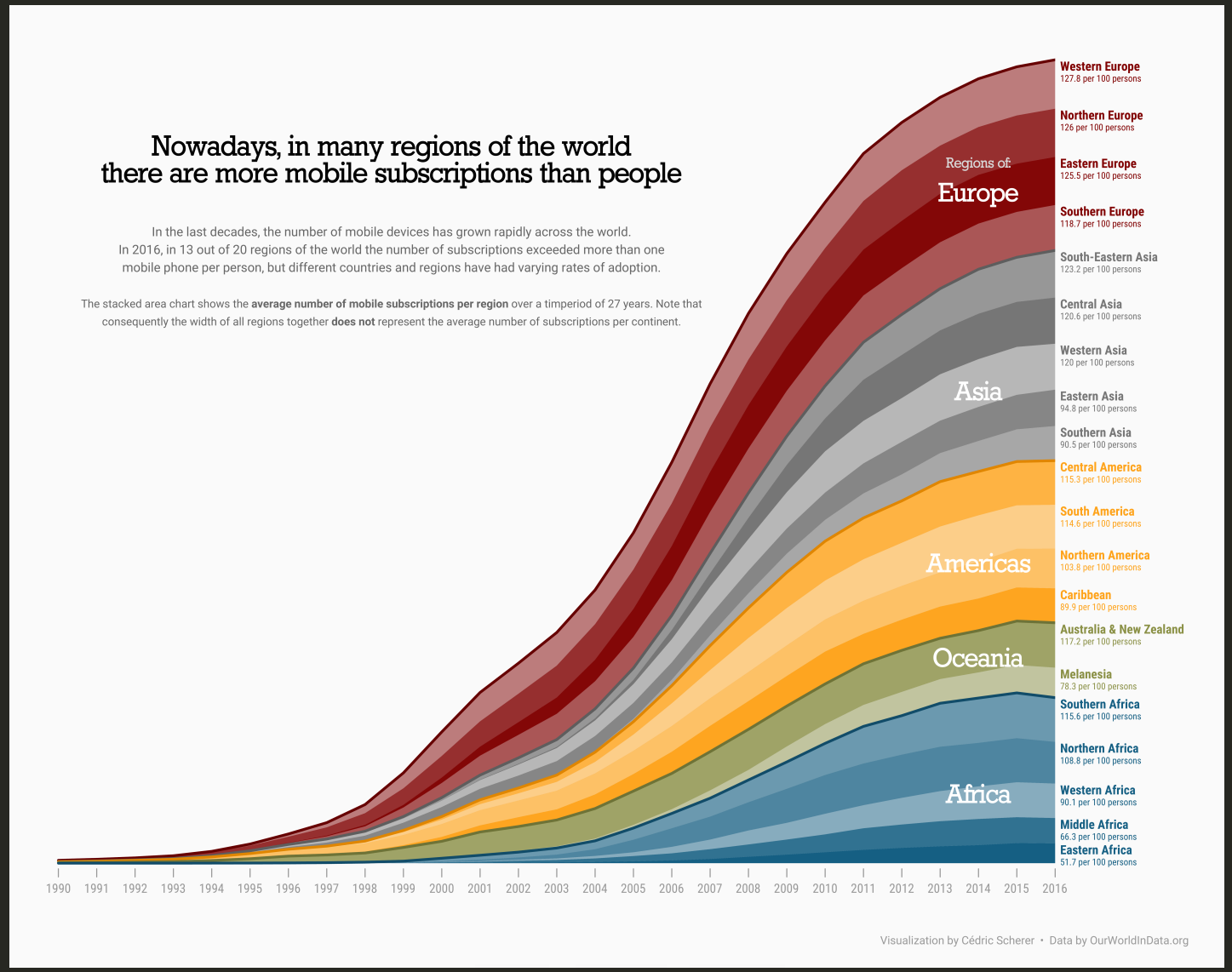


Contribution to #TidyTuesday 2020/31



European Elections by Torsten Sprenger

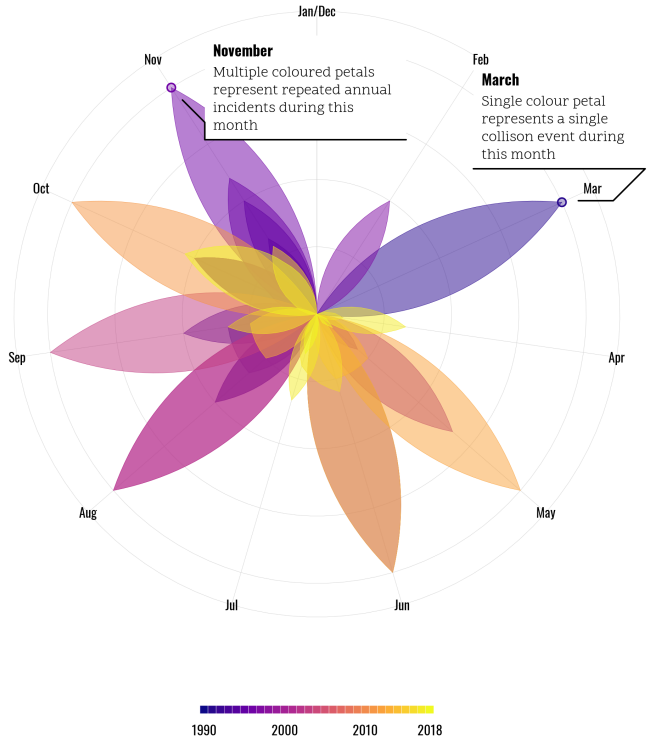
(twitter.com/spren9er/status/1138000009306234880)

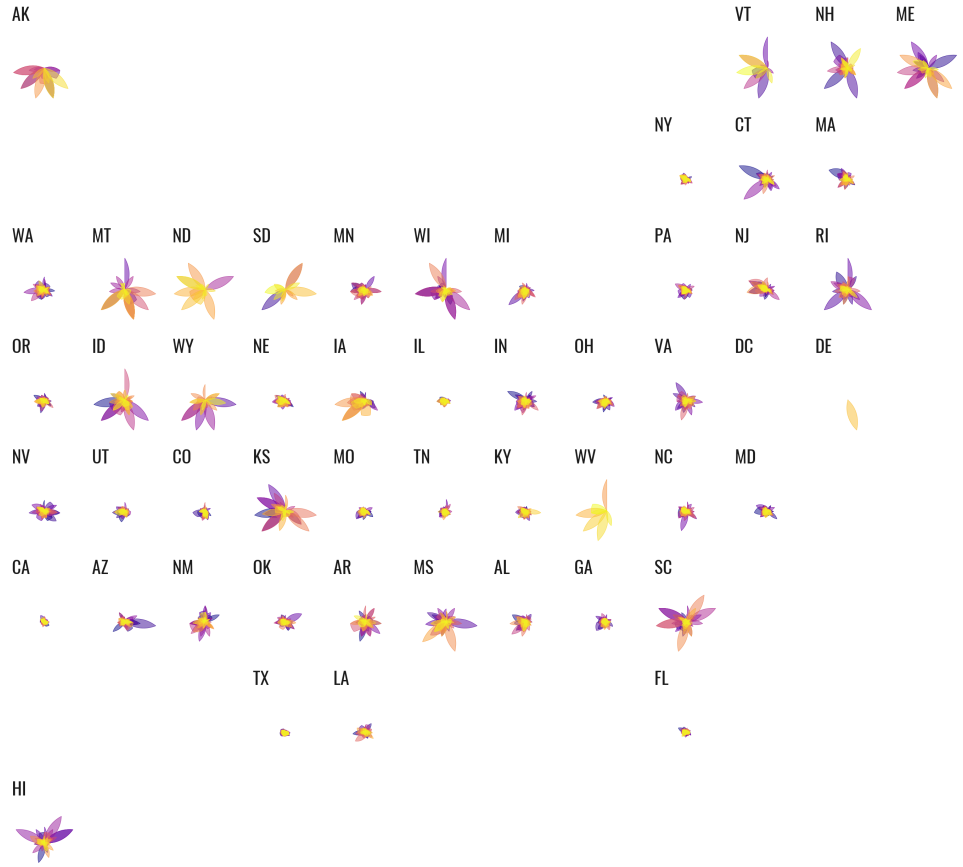


Contribution to #TidyTuesday 2020/46

Seasonality of Wildlife-Aircraft Collisions by State

Presented below is a petal chart of of wildlife collisions with aircraft, with an inset legend showing assisting interpretation. Wildlife collisions by state are presented as small multiples, geographically arranged. Smaller compact flowers illustrate states with collisions occuring year round, while the bigger flowers tend to see single or concentrated spikes of collision activity. Flowers with diverse colours indicate repeated annual collisons while the single-hued flowers illustrate more sparse or isolated annual events.





Data: FAA Wildlife Strike Database | Graphic: @jakekaupp

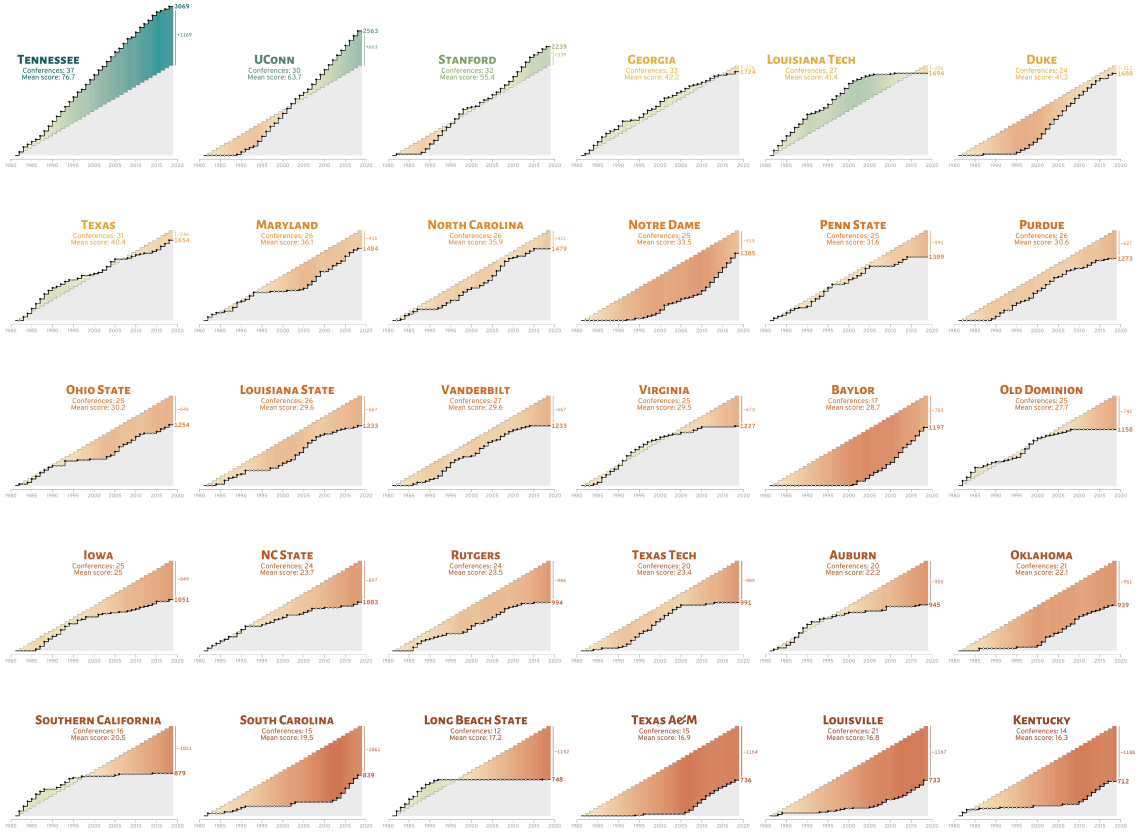
#TidyTuesday Contribution by Jake Kaupp

(github.com/jkaupp/tidytuesdays)

— The Rise & Fall of Women's College Basketball Dynasties —

A number of teams that were the titans of the early NCAA women's basketball tournament have struggled in recent decades. And in their place, a new ruling class of schools has emerged to become the defining programs of the modern age. FiveThirtyEight estimated the team strength over time based on NCAA Tournament seeds as a proxy in the absence of game-level data. To measure this, FiveThirtyEight awarded "seed points" in proportion to a given seed number's expected wins in the tournament, calibrated to a 100-point scale where the No. 1 seed gets 100 points, No. 2 gets 70 points, and so forth.

The visualization shows the cumulative sum of awarded seed points on a 100-point scale from the very first women's NCAA basketball tournaments in 1982 until 2018 in comparison to a hypothetical team that participated in all of the 37 conferences and gained half of the points each time (grey line). The curves highlight the fall of yesterday's women's basketball powerhouses such as **Louisiana Tech**, **Long Beach State**, **Southern California**, and **Old Dominion** that have been very good throughout the history of the women's tournament but have experienced big drop-offs in seed points over the last years. At the same time, schools such as **UConn**, **Stanford**, **Notre Dame**, **Baylor**, and **Duke** started slow but picked up steam into the present day. Some teams, such as **Tennessee**, have been relatively consistent throughout the NCAA era gathering always more seed points than an average team.
Shown are the top 30 college teams that participated in at least ten conferences between 1982 and 2018, sorted by the cumulative sum of seed points.



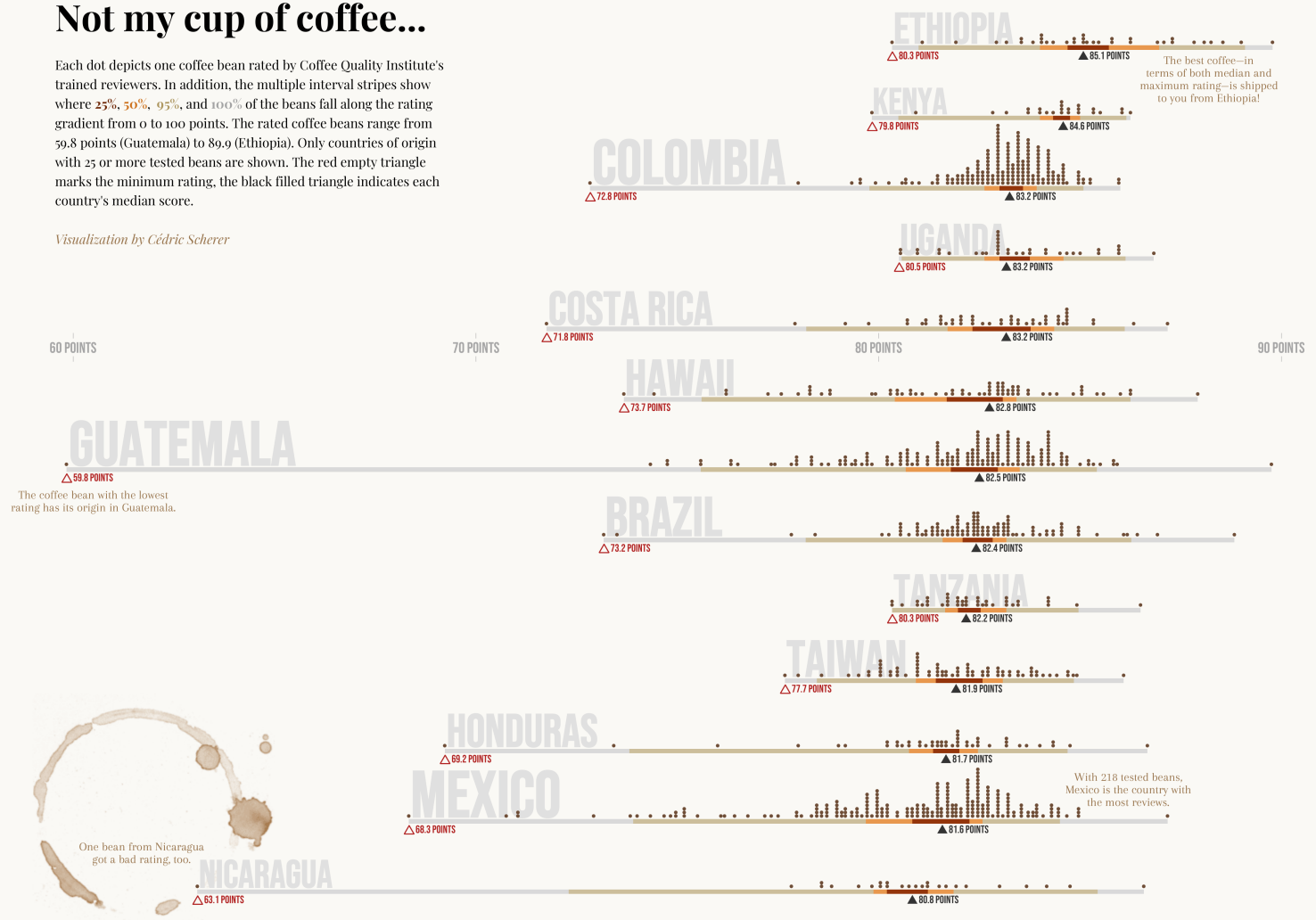
Visualization by Cédric Scherer · Data by FiveThirtyEight

Contribution to #TidyTuesday 2020/41

Not my cup of coffee...

Each dot depicts one coffee bean rated by Coffee Quality Institute's trained reviewers. In addition, the multiple interval stripes show where 25%, 50%, 95%, and 100% of the beans fall along the rating gradient from 0 to 100 points. The rated coffee beans range from 59.8 points (Guatemala) to 89.9 (Ethiopia). Only countries of origin with 25 or more tested beans are shown. The red empty triangle marks the minimum rating, the black filled triangle indicates each country's median score.

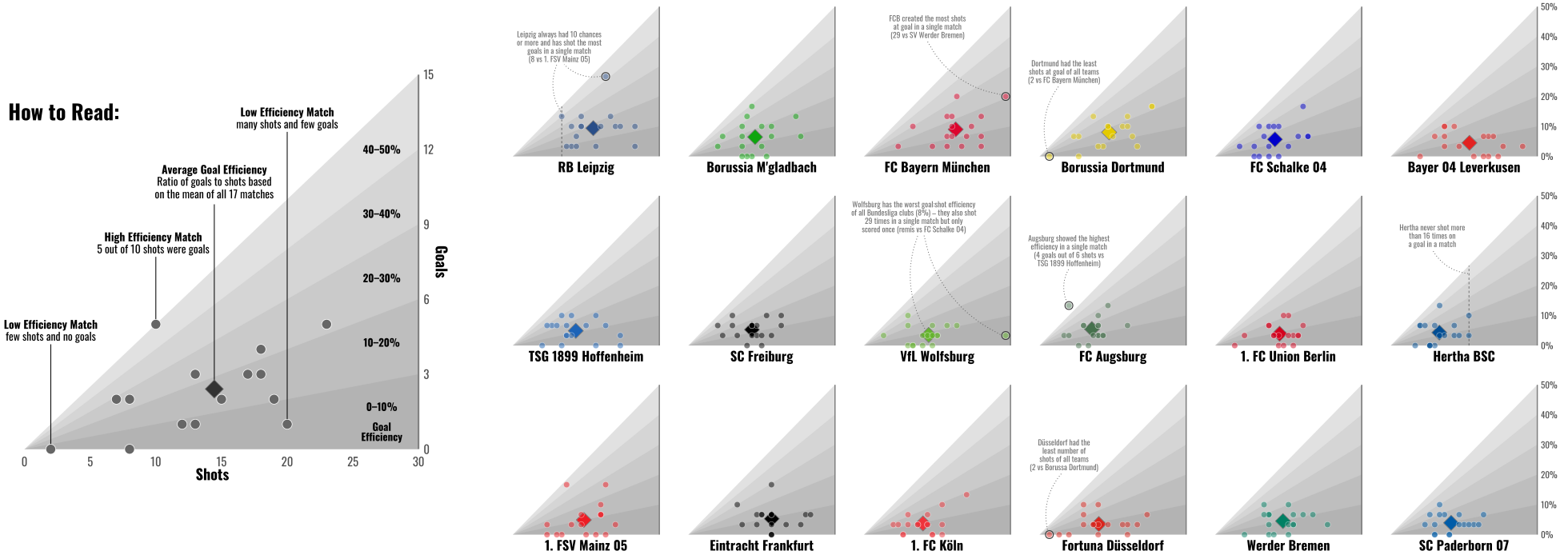
Visualization by Cédric Scherer



Contribution to #TidyTuesday 2020/28

RB Leipzig and Borussia Dortmund Make the Most of Their Opportunities

The small multiples show each club's goal:shot efficiency in the first season 2019/2020 of the 1. Bundesliga. However, while Borussia Dortmund also had very bad matches with only 2 chances, the Autumn champion RB Leipzig always scored minimum one goal and shot at least ten times on the opponent's goal in all 17 matches! Of all Bundesliga clubs, RB Leipzig also shot the most goals – 8 against Mainz.

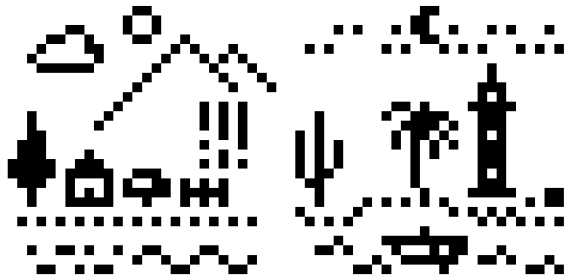


Visualization by Cédric Scherer

Contribution to #SWDchallenge

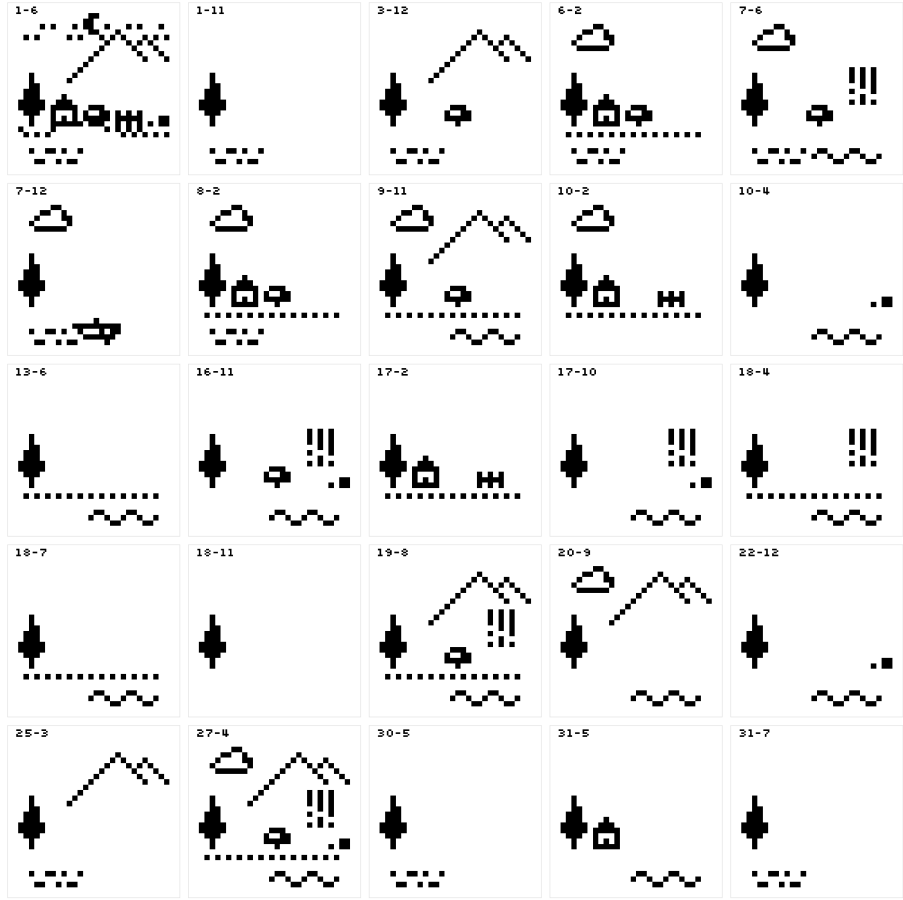
BOB ROSS - PAINTING BY THE ELEMENTS

GRAPHIC REPRESENTATIONS OF BOB ROSS' PAINTINGS WITH ELEMENTS IDENTIFIED IN THEM BY WALT HICKEY (FIVETHIRTYEIGHT). EACH ELEMENT REPRESENTS ONE OR MORE OCCURRENCES IN THE PAINTING. ONLY THE ELEMENTS IN THE LEGEND BELOW ARE DRAWN. TO THE RIGHT THERE ARE 25 RANDOM PAINTINGS THAT BOB PAINTED IN 'THE JOY OF PAINTING', WITH THE SEASON AND EPISODE NUMBER.



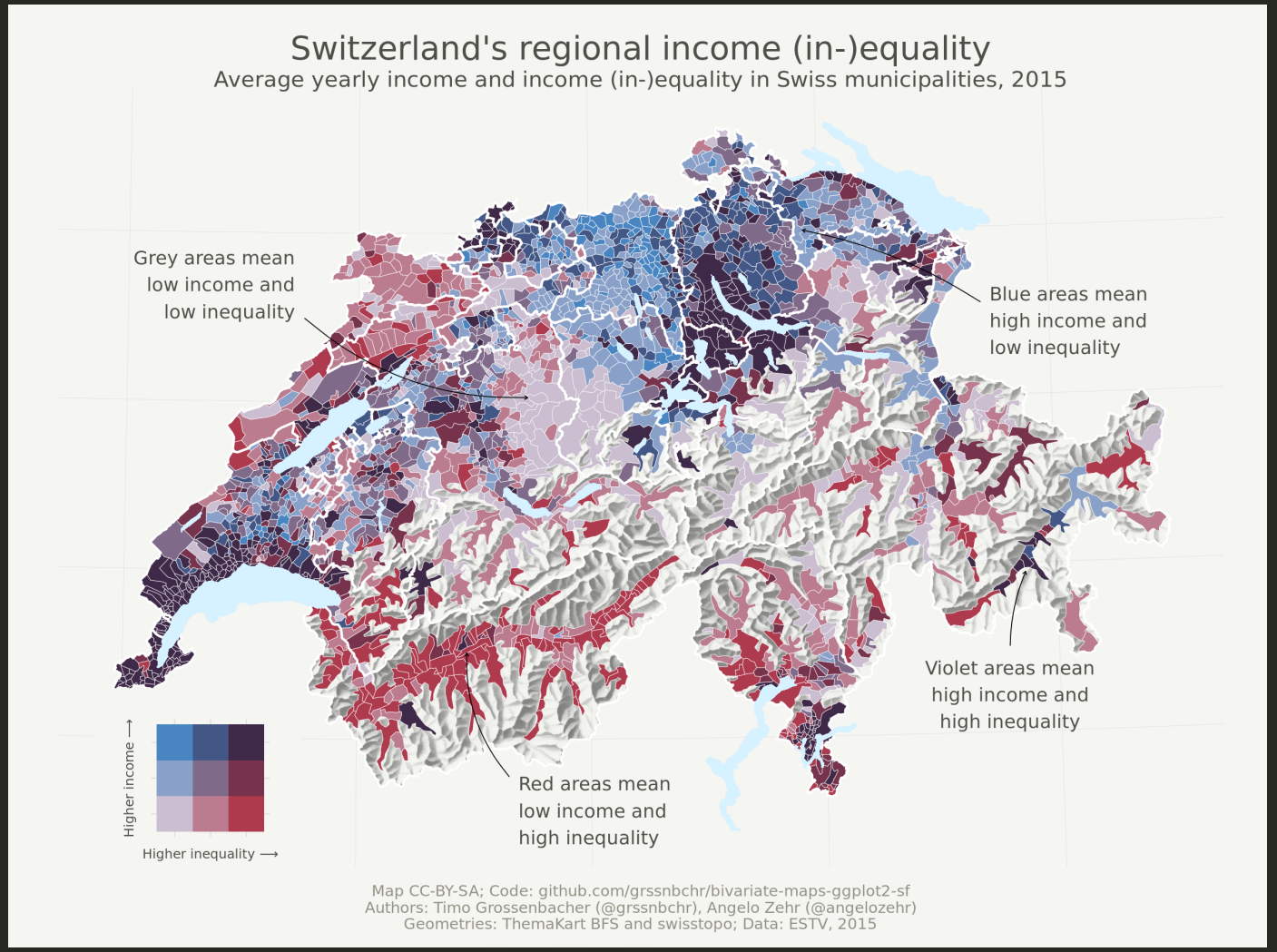
CLOUD (CIRRUS, CUMULUS), MOON, NIGHT, PALM TREE, SUN, MOUNTAIN (HILLS), CACTUS, LIGHTHOUSE, ROCKS, TREE (DECIDUOUS, CONIFER), BEACH, BOAT, CABIN (BARN, BUILDING, FARM), SEA (OCEAN, WAVES), BUSHES, FENCE, GRASS, WATERFALL, LAKE, RIVER

SOURCE: FIVETHIRTYEIGHT | PLOT: GEORGIOS KARAMANIS



#TidyTuesday Contribution by Georgios Karamanis

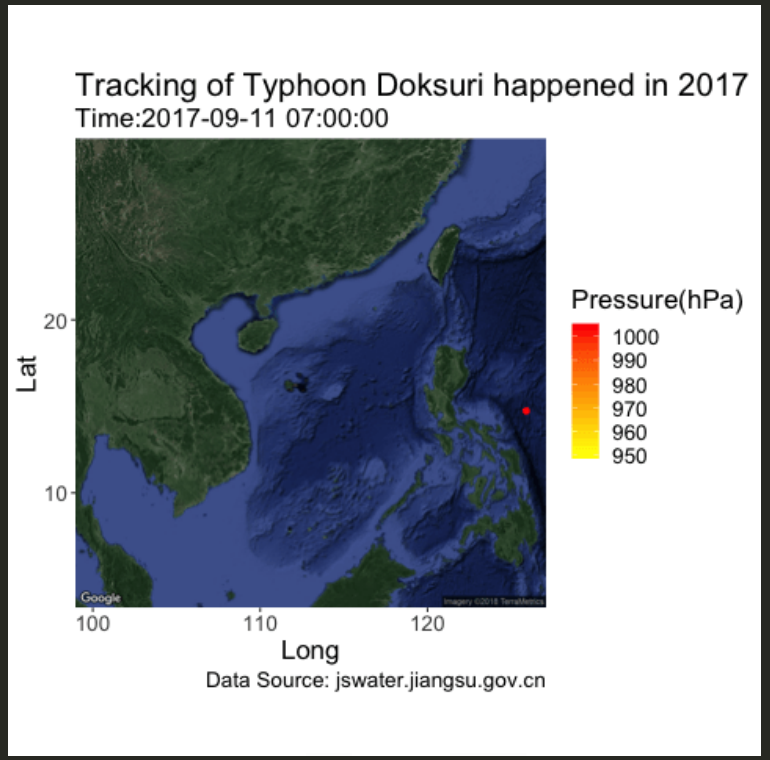
(github.com/gkaramanis/tidytuesday)



Bivariate Map by Timo Gossenbacher

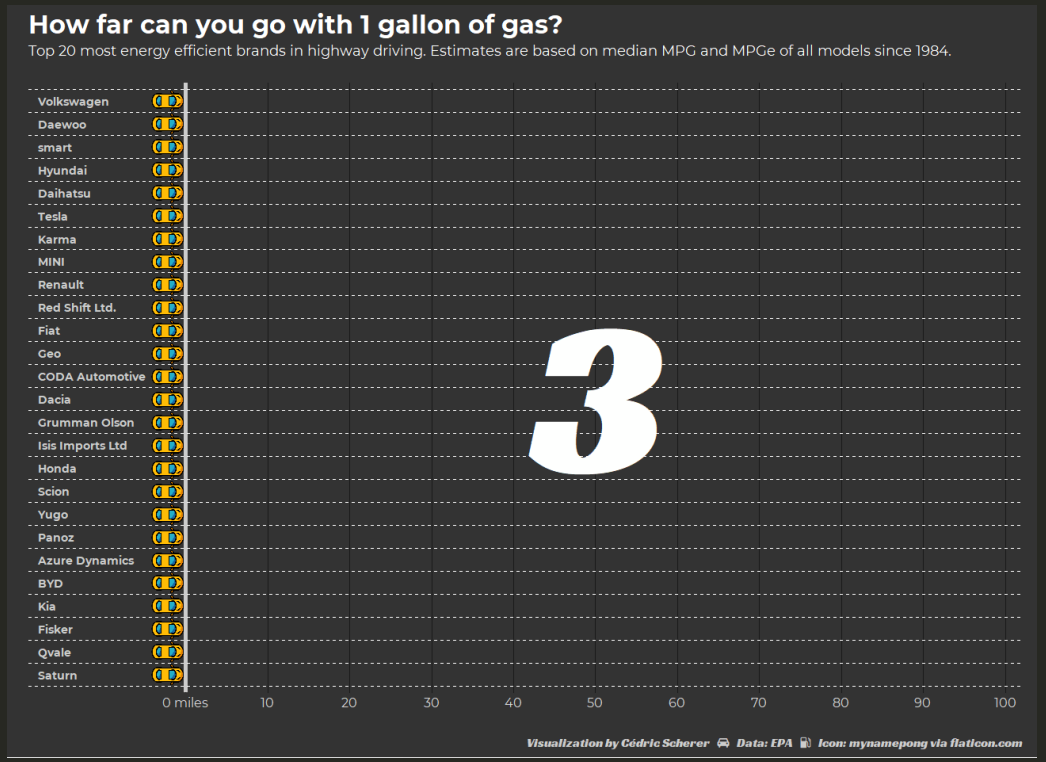
(timogrossenbacher.ch/2019/04/bivariate-maps-with-ggplot2-and-sf)

Contribution to the #30DayMapChallenge



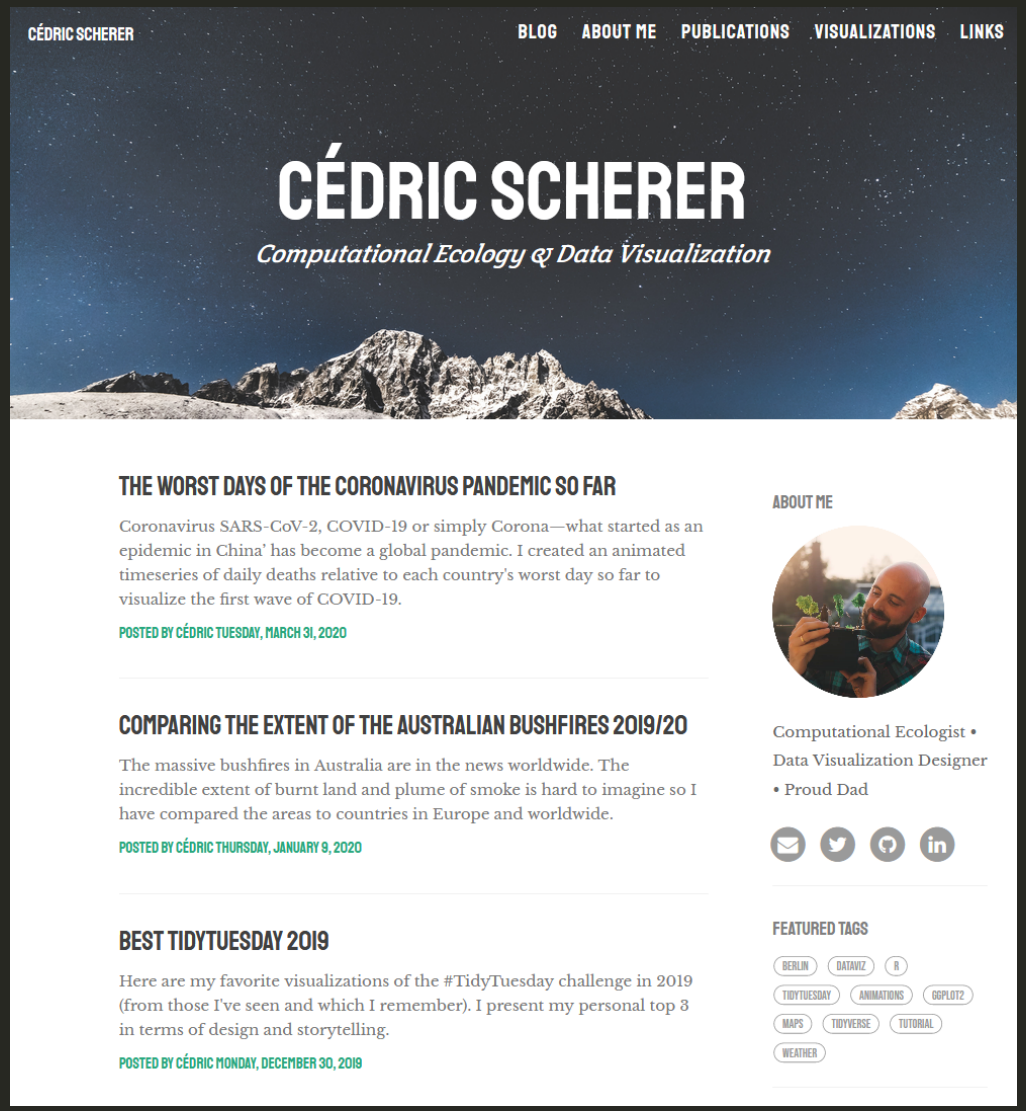
Example of the {gganimate} Package

(github.com/thomasp85/gganimate/wiki)



Contribution to #TidyTuesday

cedricscherer.netlify.com



DATAVIZ TUTORIAL R TIDYVERSE GGPLOT2

A GGPLOT2 TUTORIAL FOR BEAUTIFUL PLOTTING IN R

POSTED BY CÉDRIC ON MONDAY, AUGUST 5, 2019

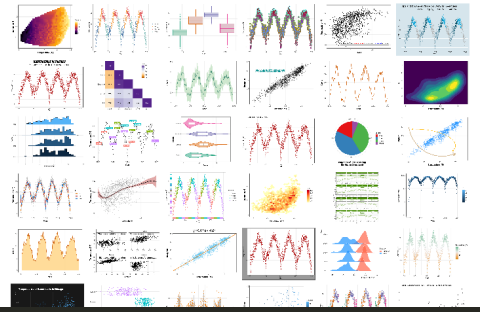
Last update: 2020-12-07

INTRODUCTORY WORDS

I don't care, just show me the content!

Back in 2016, I had to prepare my PhD introductory talk and I started using `{ggplot2}` to visualize my data. I never liked the syntax and style of base plots in R, so I was quickly in love with ggplot. Especially useful was its faceting utility. But because I was short on time, I plotted these figures by trial and error and with the help of lots of googling. The resource I came always back to was a blog entry called Beautiful plotting in R: A ggplot2 cheatsheet by Zev Ross, updated last in January 2016. After giving the talk which contained some decent plots thanks to the blog post, I decided to go through this tutorial step-by-step. I learned so much from it and directly started modifying the codes and over the time I added additional code snippets, chart types and resources.

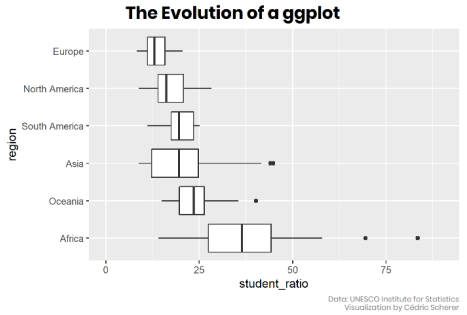
Since the blog entry by Zev Ross was not updated for some years and step by step this became a unique version of a tutorial, I decided to host the updated version on my GitHub. Now it finds its proper place on this homepage! (Plus I added a ton of other updates—just to name a few: The fantastic `{patchwork}`, `{ggtext}` and `{ggforce}` packages. How to deal with custom fonts and colors. A collection of R packages tailored to create interactive charts. And several other chart types including pie charts because everyone looooves pie charts!)



DATAVIZ TUTORIAL ANIMATIONS GGPLOT EVOLUTION R GGPLOT2 TIDYVERSE TIDYTUESDAY

THE EVOLUTION OF A GGPLOT (EP. I)

POSTED BY CÉDRIC ON FRIDAY, MAY 17, 2019

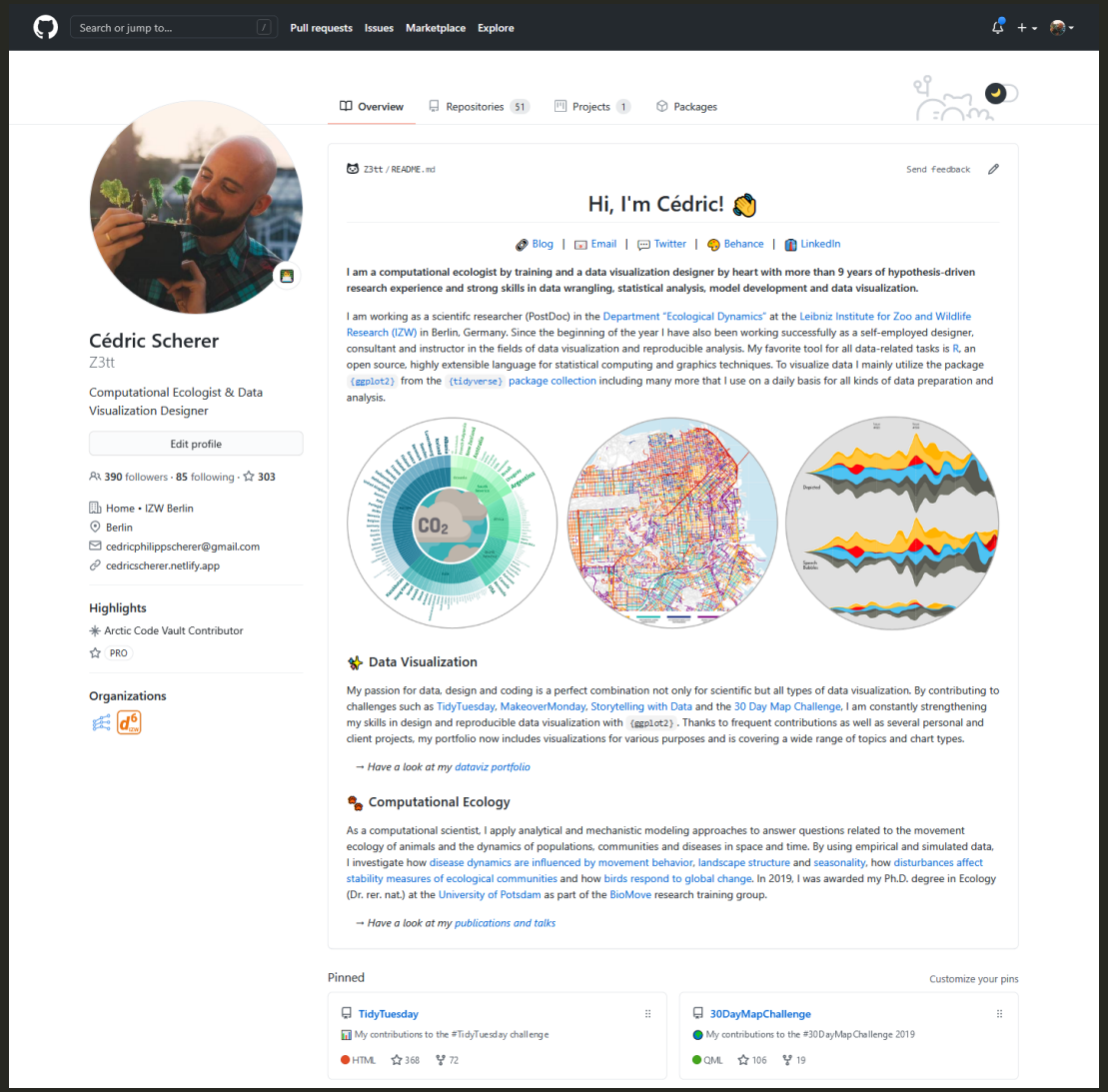


AIM OF THIS TUTORIAL

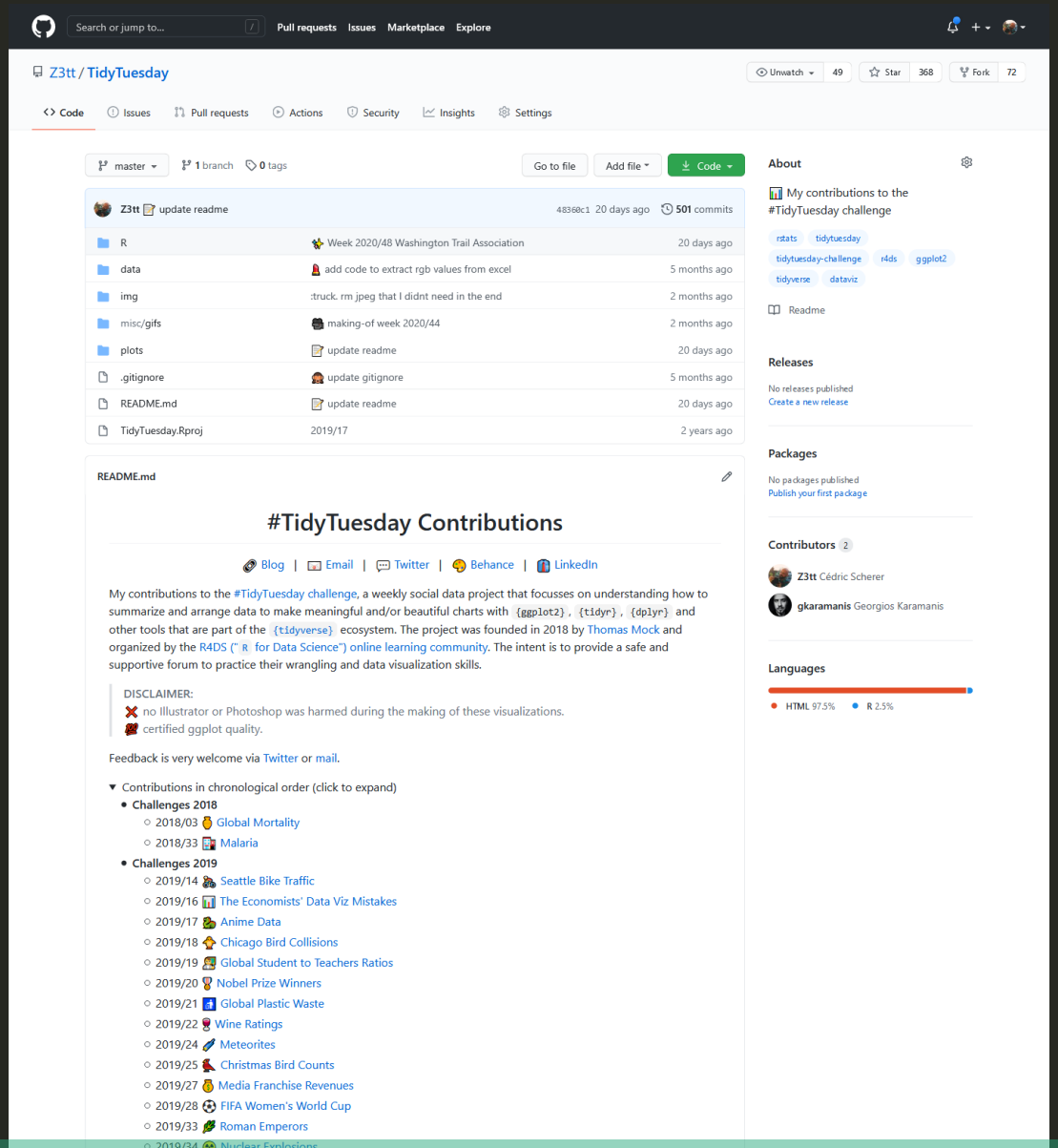
In this series of blog posts, I aim to show you how to turn a default ggplot into a plot that visualizes information in an appealing and easily understandable way. The goal of each blog post is to provide a step-by-step tutorial explaining how my visualization have evolved from a typical basic ggplot. All plots are going to be created with 100% `{ggplot2}` and 0% Inkscape.

In the first episode, I transform a basic boxplot into a colorful and self-explanatory combination of a jittered dot strip plot and a lollipop plot. I am going to use data provided by the UNESCO on global student to teacher ratios that was selected as data for the #TidyTuesday challenge 19 of 2019.

github.com/Z3tt



github.com/Z3tt/TidyTuesday



Search or jump to... / Pull requests Issues Marketplace Explore

Z3tt / TidyTuesday

Unwatch 49 Star 368 Fork 72

Code Issues Pull requests Actions Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

Z3tt update readme 48360c1 20 days ago 501 commits

R	Week 2020/48 Washington Trail Association	20 days ago
data	add code to extract rgb values from excel	5 months ago
img	:truck: rm jpeg that I didnt need in the end	2 months ago
misc/gifs	making-of week 2020/44	2 months ago
plots	update readme	20 days ago
.gitignore	update gitignore	5 months ago
README.md	update readme	20 days ago
TidyTuesday.Rproj	2019/17	2 years ago

README.md

#TidyTuesday Contributions

Blog | Email | Twitter | Behance | LinkedIn

My contributions to the #TidyTuesday challenge, a weekly social data project that focusses on understanding how to summarize and arrange data to make meaningful and/or beautiful charts with `{ggplot2}`, `{tidyr}`, `{dplyr}` and other tools that are part of the `{tidyverse}` ecosystem. The project was founded in 2018 by Thomas Mock and organized by the R4DS ("`R` for Data Science") online learning community. The intent is to provide a safe and supportive forum to practice their wrangling and data visualization skills.

> DISCLAIMER:
> no Illustrator or Photoshop was harmed during the making of these visualizations.
> certified ggplot quality.

Feedback is very welcome via Twitter or mail.

▼ Contributions in chronological order (click to expand)

- **Challenges 2018**
  - 2018/03 Global Mortality
  - 2018/33 Malaria
- **Challenges 2019**
  - 2019/14 Seattle Bike Traffic
  - 2019/16 The Economists' Data Viz Mistakes
  - 2019/17 Anime Data
  - 2019/18 Chicago Bird Collisions
  - 2019/19 Global Student to Teachers Ratios
  - 2019/20 Nobel Prize Winners
  - 2019/21 Global Plastic Waste
  - 2019/22 Wine Ratings
  - 2019/24 Meteorites
  - 2019/25 Christmas Bird Counts
  - 2019/27 Media Franchise Revenues
  - 2019/28 FIFA Women's World Cup
  - 2019/33 Roman Emperors
  - 2019/34 Nuclear Explosions

About

My contributions to the #TidyTuesday challenge

rstats tidytuesday tidytuesday-challenge r4ds ggplot2 tidyverse dataviz

Readme

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

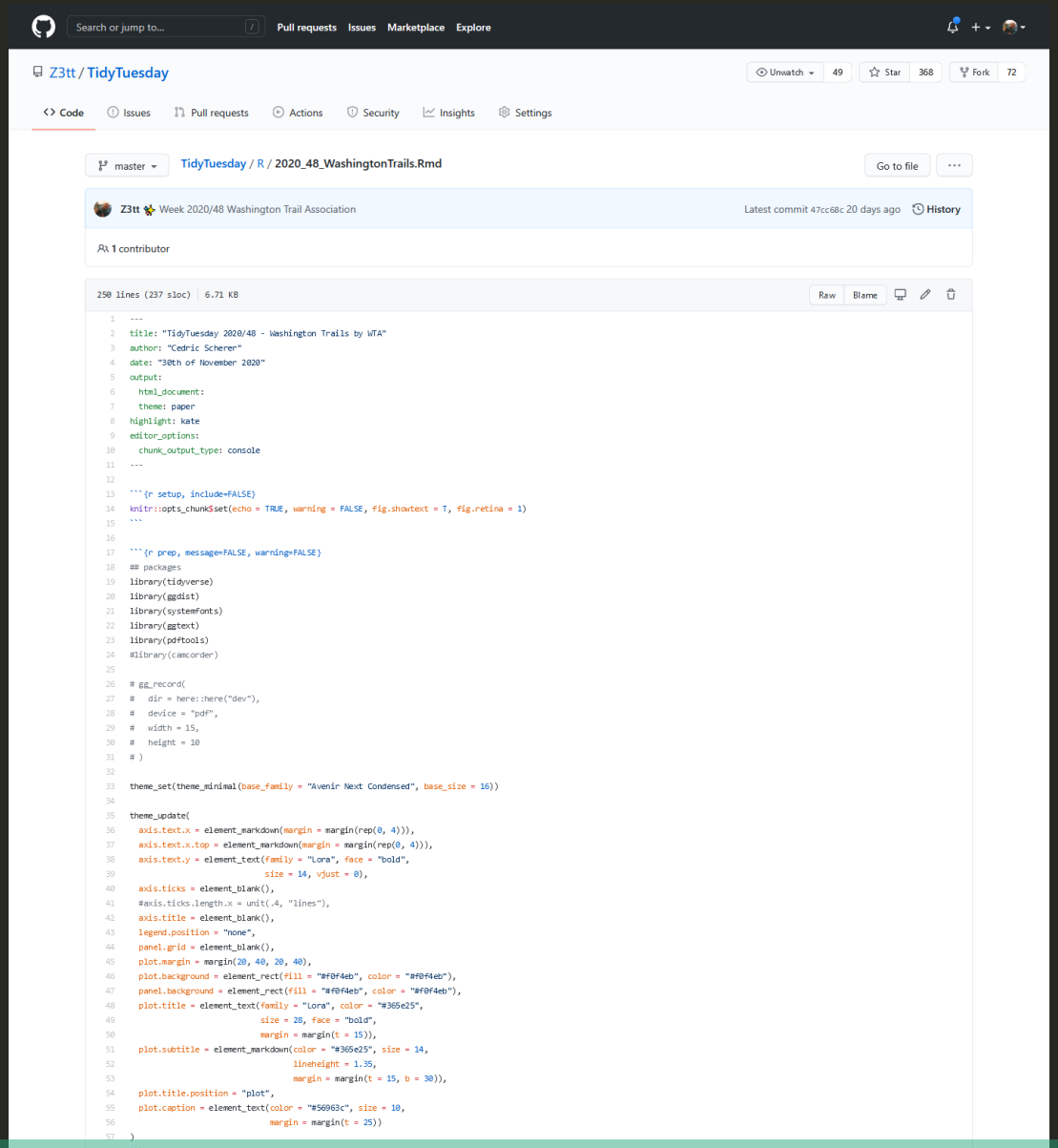
Contributors 2

Z3tt Cédric Scherer
gkaramanis Georgios Karamanis

Languages

HTML 97.5% R 2.5%

github.com/Z3tt/TidyTuesday/R/...



Search or jump to... / Pull requests Issues Marketplace Explore

Z3tt / TidyTuesday

Unwatch 49 Star 368 Fork 72

Code Issues Pull requests Actions Security Insights Settings

master TidyTuesday / R / 2020_48_WashingtonTrails.Rmd Go to file

Z3tt Week 2020/48 Washington Trail Association Latest commit 47cc68c 20 days ago History

1 contributor

250 lines (237 sloc) 6.71 KB Raw Blame

```
---
title: "TidyTuesday 2020/48 - Washington Trails by WTA"
author: "Cedric Scherer"
date: "30th of November 2020"
output:
  html_document:
  theme: paper
highlight: kate
editor_options:
  chunk_output_type: console
---

```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE, warning = FALSE, fig.showtext = T, fig.retina = 1)
```

```{r prep, message=FALSE, warning=FALSE}
## packages
library(tidyverse)
library(ggdist)
library(systemfonts)
library(ggtext)
library(pdftools)
#library(camcorder)

# gg_record(
#   dir = here::here("dev"),
#   device = "pdf",
#   width = 15,
#   height = 10
# )

theme_set(theme_minimal(base_family = "Avenir Next Condensed", base_size = 16))

theme_update(
  axis.text.x = element_markdown(margin = margin(rep(0, 4))),
  axis.text.x.top = element_markdown(margin = margin(rep(0, 4))),
  axis.text.y = element_text(family = "Lora", face = "bold",
                             size = 14, vjust = 0),
  axis.ticks = element_blank(),
  #axis.ticks.length.x = unit(.4, "lines"),
  axis.title = element_blank(),
  legend.position = "none",
  panel.grid = element_blank(),
  plot.margin = margin(20, 40, 20, 40),
  plot.background = element_rect(fill = "#f0f4eb", color = "#f0f4eb"),
  panel.background = element_rect(fill = "#f0f4eb", color = "#f0f4eb"),
  plot.title = element_text(family = "Lora", color = "#365e25",
                            size = 28, face = "bold",
                            margin = margin(t = 15)),
  plot.subtitle = element_markdown(color = "#365e25", size = 14,
                                   lineheight = 1.35,
                                   margin = margin(t = 15, b = 30)),
  plot.title.position = "plot",
  plot.caption = element_text(color = "#56963c", size = 10,
                              margin = margin(t = 25))
)
```
```

Illustration by ***Allison Horst***