

Visualizations together

Community visualization challenges and their
educational inspiration

Amit Levinson

Israeli Visualization Conference, Shenkar, 2022

    amitlevinson.com

About me

- Risk Strategy Analyst @ Payoneer
- Father, Partner & Tel-Aviv resident
- Proud dog owner
- Enjoy data analysis & visualizations



How do I learn to use R?

How do I learn to use R?

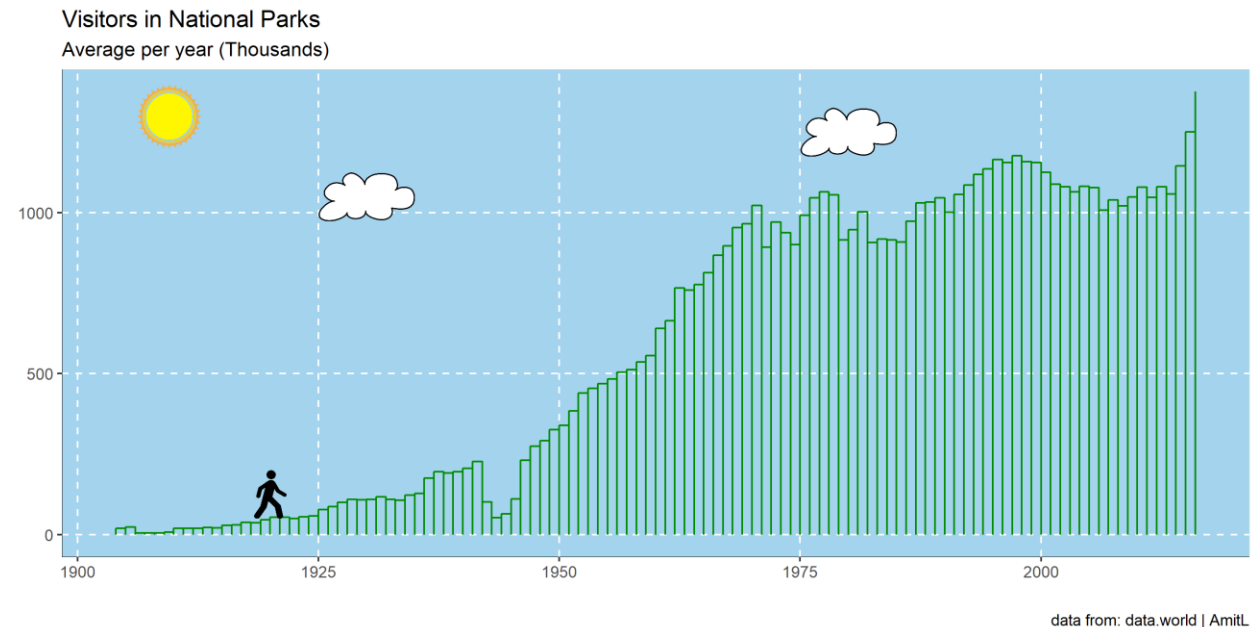
**By manipulating and
visualizing data**

1. Community

#TidyTuesday

"A **weekly data project** aimed at the R ecosystem... an emphasis was placed on **understanding how to summarize and arrange data to make meaningful charts** with ggplot2, tidyr..."

First Attempt: 2019, National parks



#30Day

MapChallenge



www.30daymapchallenge.com

ChartChallenge



www.30daychartchallenge.org



ONE OF US! ONE OF US!

2. Engaging data

Meaningful Data

Israel has experienced only one **female** prime minister



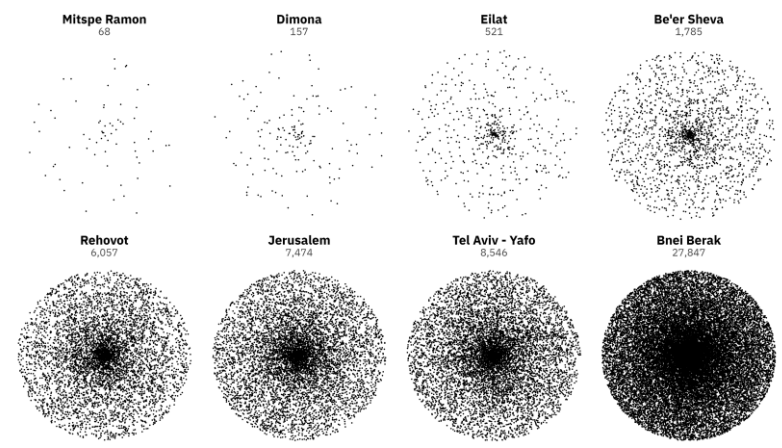
Viz: Amit_Levinson

Israel's
Elevation



Population Density in Israeli Cities

Points (and numbers) represent the number of people per 1 km². Sizes are calculated from Israel's gov shape files, and cities' population size from Israel's CBs report for 2019.
• = 1 person

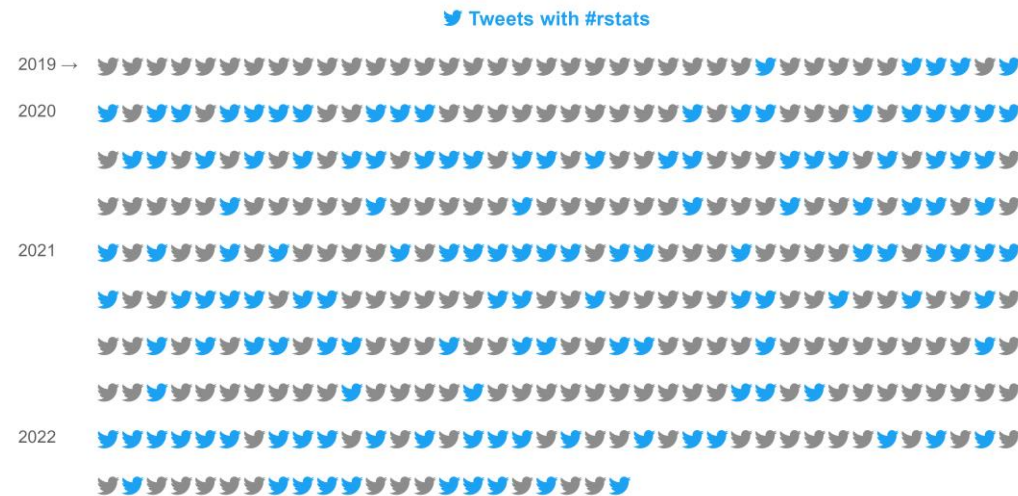


@Amit_Levinson

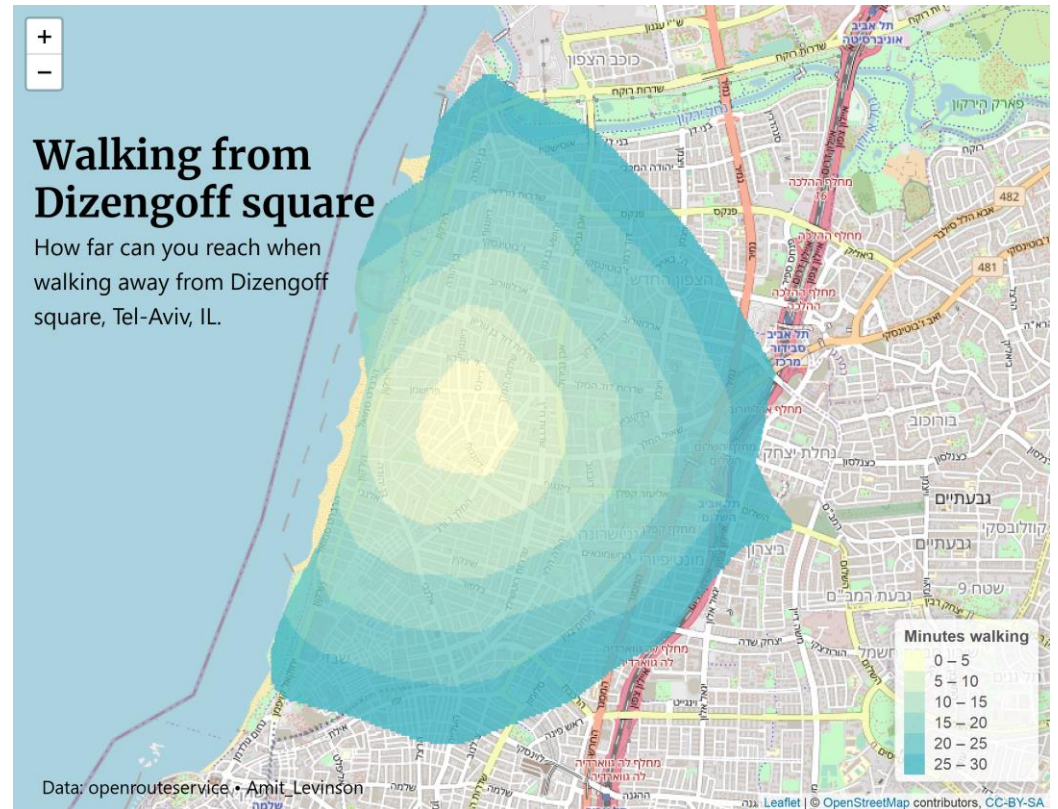
Personal Data

My use of the #rstats hashtag

My tweets over the years, comparing those with the #rstats hashtag to those without. Overall I used the hashtag 140 times, for a total of ~38% out of all tweets and quote tweets since 2019 (n = 364). Replies and retweets are excluded.




Data: Twitter | @Amit_Levinson



3. Learning

from others
new methods
things I can implement at work

Learning from others




Alexandra Kapp
@lxndrkp

Day 9 [#30DayMapChallenge](#) - Monochrome

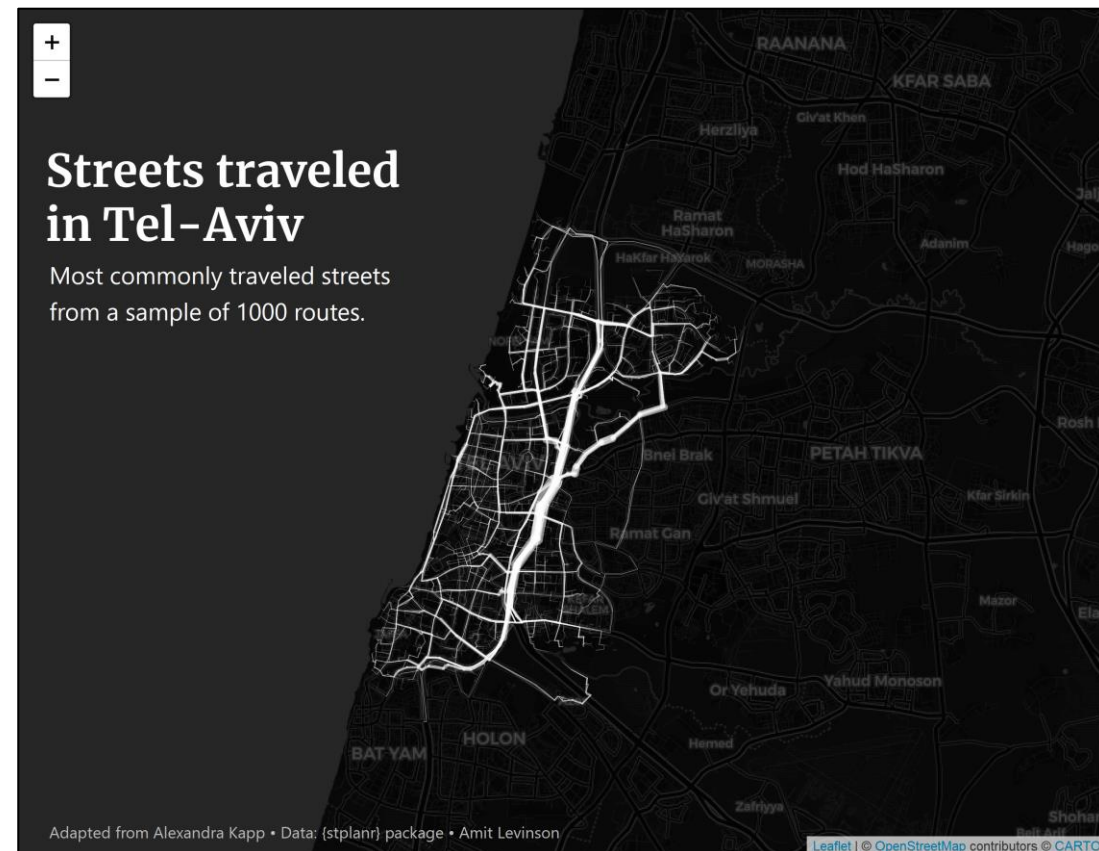
Finding major streets of Berlin by routing 500x500 random points and aggregating the count of the used street segments.
using [#rstats](#) stplanr package [@robinlovelace](#)

Map: alexandrakapp.github.io/30daymapchalle...

R Code: github.com/AlexandraKapp/...



11:12 AM · Nov 9, 2020 · Twitter Web App

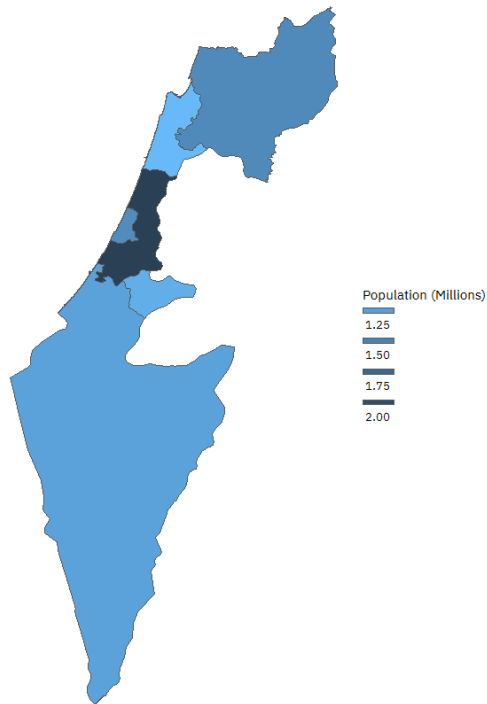


Learning new methods

Technical

Israel's population

Map transitions between a regular map to a cartogram, a map where the geographic size is proportional to the population in that area. Data is from Israel's CBS 2017 report and is aggregated at the district level

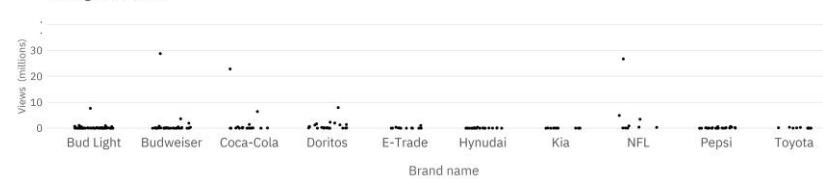


Data: data.gov.il
@Amit_Levinson

Different ways of representation

Brands' Super Bowl Commercials View Count

Each point represents an aired commercial YouTube view count. Majority of advertising content is characterized by 0-10 million views, with a few commercials gaining more than 20 million views. Data is based on "233 ads from the 10 brands that aired the most spots in all 21 Super Bowls (FiveThirtyEight)". Several commercials were missing view counts.

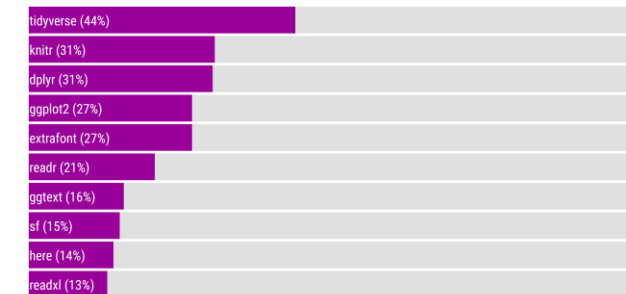


Data: FiveThirtyEight
Visualization: @Amit_Levinson

New tools

R Packages I use

Top 10 frequent packages I use and their frequency out of all ~ 290 (.R/.Rmd) scripts I have on my computer.



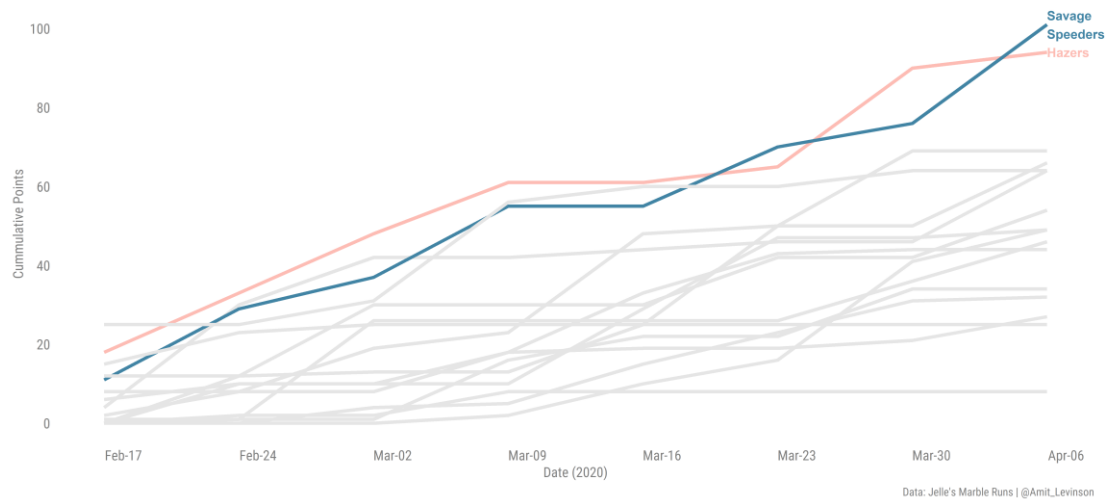
Day 01: Part-to-Whole | @Amit_Levinson

Learning things I can implement at work

Pre-attentive attention

Marbles Rolling to Victory

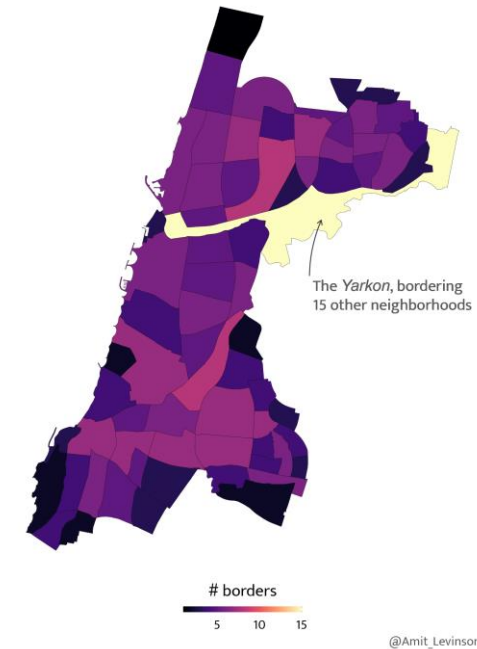
Marble races have never been more exciting with Jelle's Marble Race. Currently operating as a Youtube channel, the platform offers **weekly marble races** that'll keep you on your toes. Data from season one shows a close match between the two teams the **Savage Speeders** and **Hazers**.



Annotations

Bordering Neighborhoods in Tel-Aviv

Number of neighborhoods each neighborhood borders in Tel-Aviv



Recapping

Community Engaging Learning

Why Participate

1. Welcoming community
2. Interact with amazing & brilliant people
3. Leave your comfort zone & challenge yourself
4. Explore various data
5. Gain experience & confidence
6. Create something to call your own
- 7. It's fun!**

How to start?

You just...**Start**

- #TidyTuesday
- #30DayMapChallenge (November)
- #30DayChartChallenge (April)
- #MakeOverMonday
- #SWDchallenge

See you at the next challenge?

Thank you!