Welcome! (to the tidyverse)

Data Visualization for Social Good CorrelAid Switzerland







February 2021

Goal

The goal of this workshop is to introduce you to data exploration and visualization with the R tidyverse, using a for-social-good working example!



Inequality in Basel

? How has the distribution of income and wealth changed within and between Basel's quarters from 2001 and 2017?





Inequality in Basel

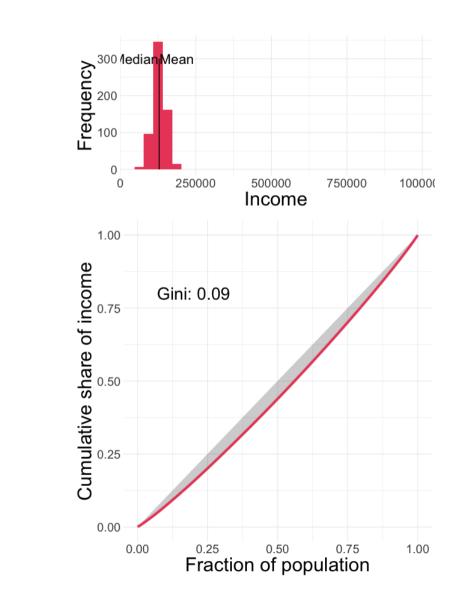
? How has the distribution of income and wealth changed within and between Basel's quarters from 2001 and 2017?





Mean, Median, Gini

- Inequality arising from a rich-get-richer dynamic materializes as an increasingly right-skewed income distribution.
- 2 This can be detected:
 - Mean income grows faster than median income.
 - The **Gini** coefficient goes up.



Tidyverse

- The tidyverse is...
 - A collection of userfriendly packages for analyzing tidy data
 - An **ecosystem** for analytics and data science with common design principles
 - A dialect of the R language



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Tidyverse

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RStudio

- RStudio is...
 - A high-productivity data science IDE.
 - The **company** behind the tidyverse.
 - Designed for R tidyverse with good integration for Python, Markdown, or C++.



Schedule

- The core of the workshop consists of four 40min sessions.
- Sessions consist of
 - 15-20min introduction
 - 20-25min coding exercises>
- Stick around for an intro to Correlaid Switzerland at the end.

1300	Welcome! (to the tidyverse)
1320	Wrangling with dplyr
1400	Intro to ggplot2 +practical
1440	Break
1500	Styling with ggplot2 +practical
1540	Maps with ggplot2 & sf
1620	Tidyverse continued
1640	Correlaid Switzerland

Download materials

Schedule