

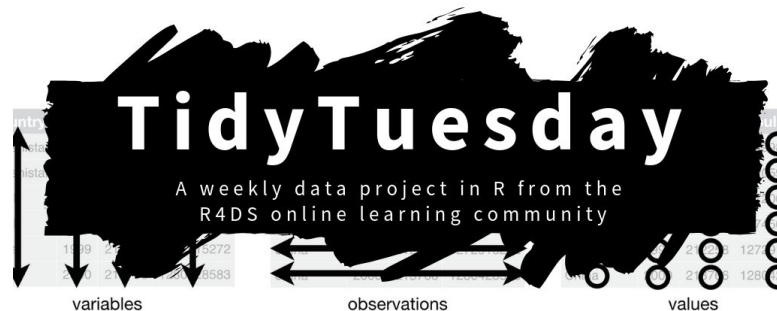
Fantastic data and where to find them

Tom Mock, RStudio



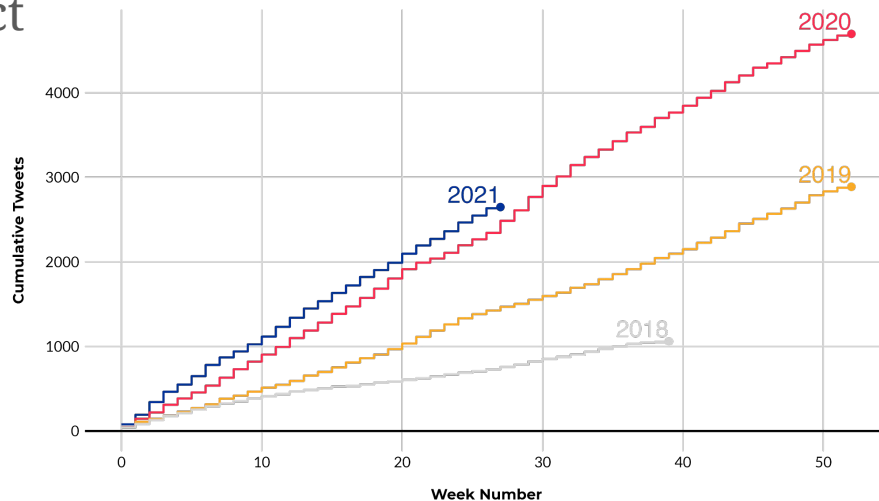
What I know about data

- Managing the [#TidyTuesday](#) project for > 3 years
- Exclusively using public data sources
- Finding, cleaning, and sharing datasets for visualization and project based learning with R
- ~200 unique visitors/day to repo
- ~100 participants/week on Twitter



Cumulative tweets for #TidyTuesday by year

Note that Week 1 of 2018 started in April & tweets must contain: 'rstats, code, plot, graph, viz, data or tidyverse'



“Tidy” data

- Much of the data you can find publicly or on the web is not analysis ready
- [“Tidy” data](#) is *“structuring datasets to facilitate analysis”*
- The [R for Data Science book](#) covers this in greater depth

country	year	cases	population
Afghanistan	1999	1845	19987071
Afghanistan	2000	2666	20595360
Brazil	1999	31737	17206362
Brazil	2000	80488	174504898
China	1999	212258	1272915272
China	2000	216766	1280423583

variables

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observations

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values

What is #TidyTuesday?

A scaffold
for a self-directed
community of practice

#TidyTuesday

☰ README.md



DataSets

[2018](#) | [2019](#) | [2020](#) | [2021](#)

Week	Date	Data	Source	Article
1	2020-12-29	Bring your own data from 2020!		
2	2021-01-05	Transit Cost Project	TransitCosts.com	Transit Costs Case Study
3	2021-01-12	Art Collections	Tate Collection	AR of Artworks
4	2021-01-19	Kenya Census	rKenyaCensus	Introducing rKenyaCensus
5	2021-01-26	Plastic Pollution	Break Free from Plastic	Sarah Sauve
6	2021-02-02	HBCU Enrollment	Data.World & Data.World	HBCU Donations Article
7	2021-02-09	Wealth and Income	Urban Institute & US Census	Urban Institute
8	2021-02-16	W.E.B. Du Bois Challenge	Du Bois Data Challenge	Anthony Starks - Recreating Du Bois's data portraits
9	2021-02-23	Employment and Earnings	BLS	BLS Article

#TidyTuesday

Independence Days

The data this week comes from [Wikipedia](#) and thank you to [Isabella Velasquez](#) for prepping this week's dataset.

An independence day is an annual event commemorating the anniversary of a nation's independence or statehood, usually after ceasing to be a group or part of another nation or state, or more rarely after the end of a military occupation. Many countries commemorate their independence from a colonial empire. American political commentator Walter Russell Mead notes that, "World-wide, British Leaving Day is never out of season."

Get the data here

```
# Get the Data

# Read in with tidyuesdayR package
# Install from CRAN via: install.packages("tidyuesdayR")
# This loads the readme and all the datasets for the week of interest

# Either ISO-8601 date or year/week works!

tuesdata <- tidyuesdayR::tt_load('2021-07-06')
tuesdata <- tidyuesdayR::tt_load(2021, week = 28)

holidays <- tuesdata$holidays

# Or read in the data manually

holidays <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidyuesday/master/data/2021/2021-07-06/ho'
```

Data Dictionary

holidays.csv

So what is TidyTuesday?

It's just data.

That can be read into R in a few seconds

With an article for context

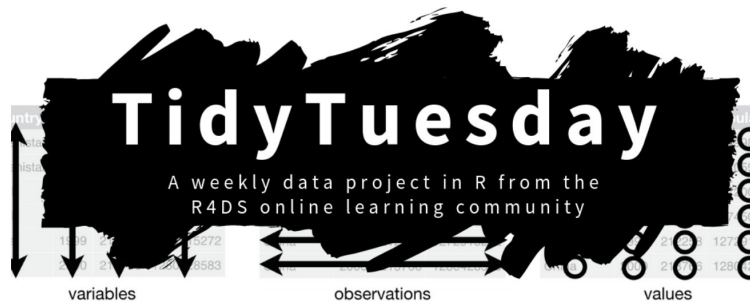
With a data dictionary

With dozens of example analyses WITH code very week

With a community of learners and mentors

bitly.com/tidyreadme

More about TidyTuesday



Scaffolding for a community of practice

Tom Mock

@thomas_mock

github.com/jthomasmock/tidyuesday_presentation-user-2020

2020-06-20

<https://www.youtube.com/watch?v=H8rhQOj7vDY>

Government Data

- NHS efforts to [support open data](#)
- The UK open data portal [data.gov.uk](#)
- GovLab [NHS Open Data portal](#)
- US data via [data.gov](#)
- State-level data for US via [data.texas.gov](#)



Scientific Data

- Machine learning datasets via [Papers with Code](#)
- Public science data from [Google Datasets](#)
- Large datasets via [Open Science Data Cloud](#)
- Scientific data [metacollections via Nature](#)

Data Aggregators

- [OurWorldInData.org](https://ourworldindata.org) - indicator data for most countries
- Machine Learning tasks with open data via [Kaggle](https://kaggle.com)
- [Data.World](https://data.world) data catalogue
- [Data-is-plural.com](https://data-is-plural.com) weekly newsletter
- Historical data from [Wikipedia](https://en.wikipedia.org)

Web scraping

- The [rvest](#) package allows for tables that can't be “downloaded” to be imported directly into R
- The [polite](#) R package goes a step farther in asking permission to scrape
- JavaScript based [web scraping](#) from open API endpoints with [httr](#)

Your own data

- Your team/company/organization has data
- It probably needs to be visualized, to be explored, to be analyzed

Data has a better idea