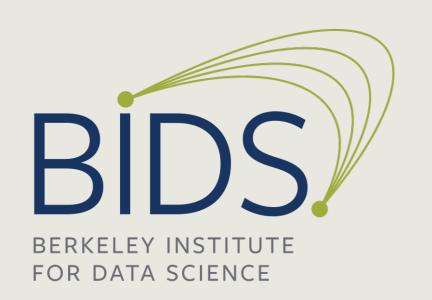
Unleashing the power of biodiversity data with data science

April 17, 2019

Ciera Martinez & Sara Stoudt







Mission: Safer Internet



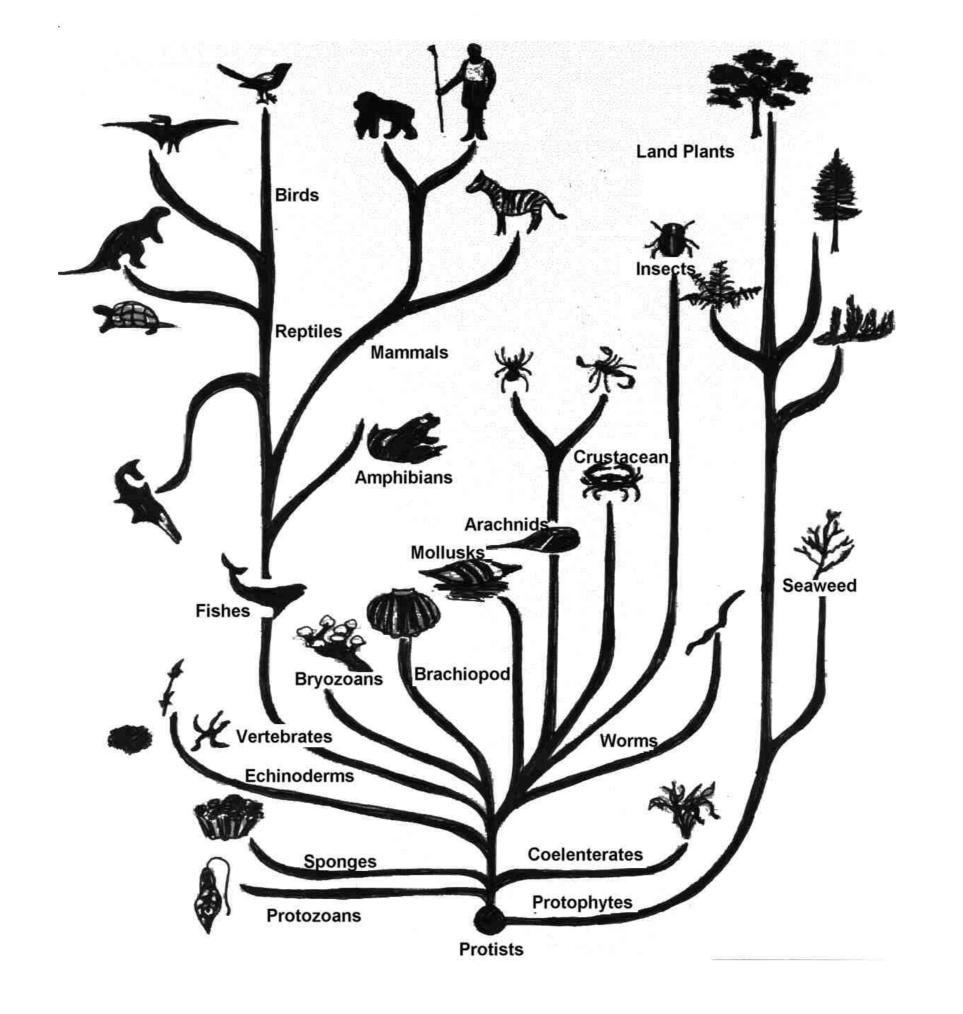


Mission: Safer Internet

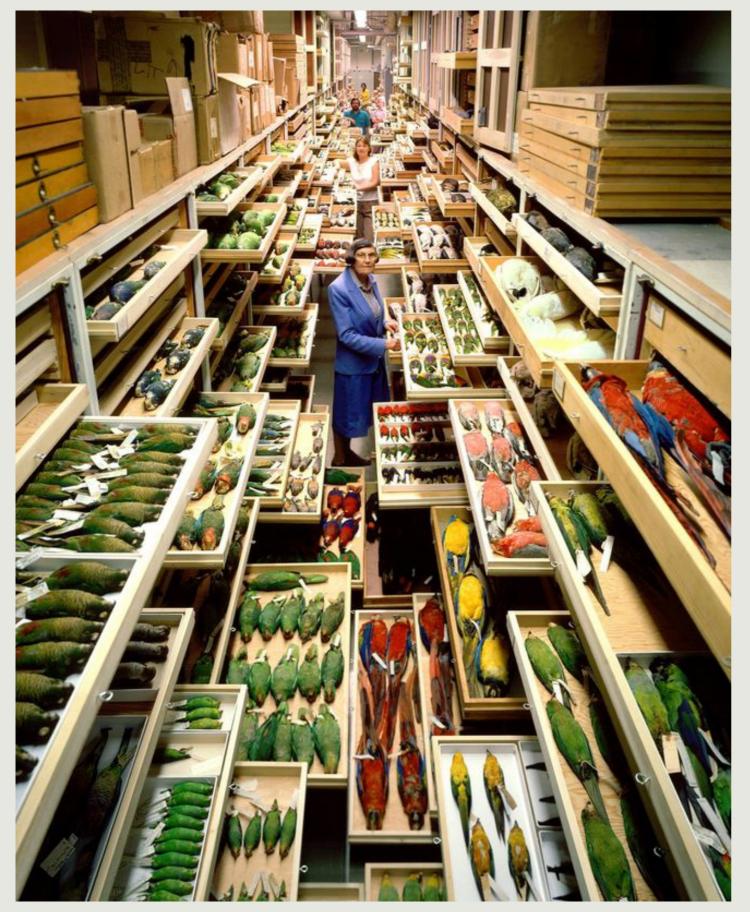


- 1. Decentralization
- 2. Privacy and security
- 3. Digital Inclusion
- 4. Web Literacy
- 5. Openness
 - Science
 - Publishing
 - Hardware
 - Software
 - Ethics
 - Data





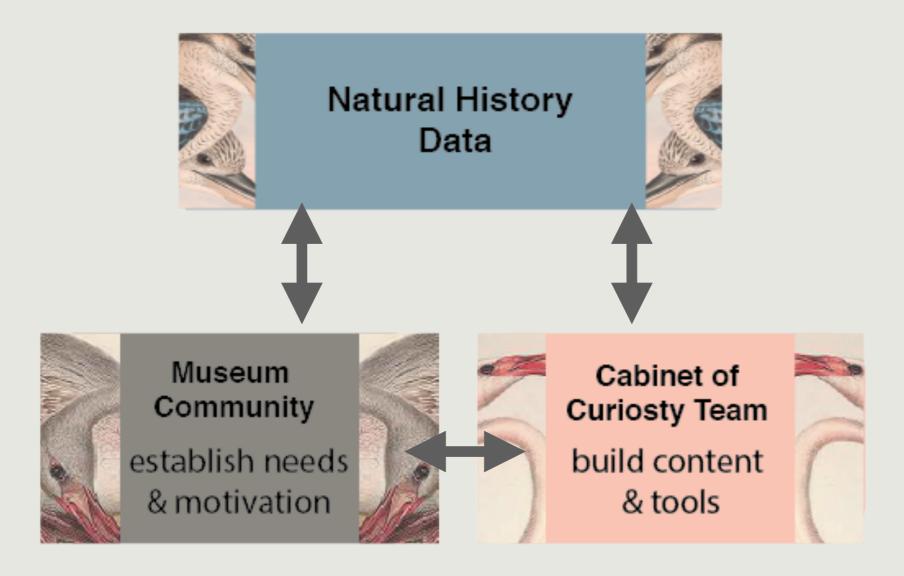






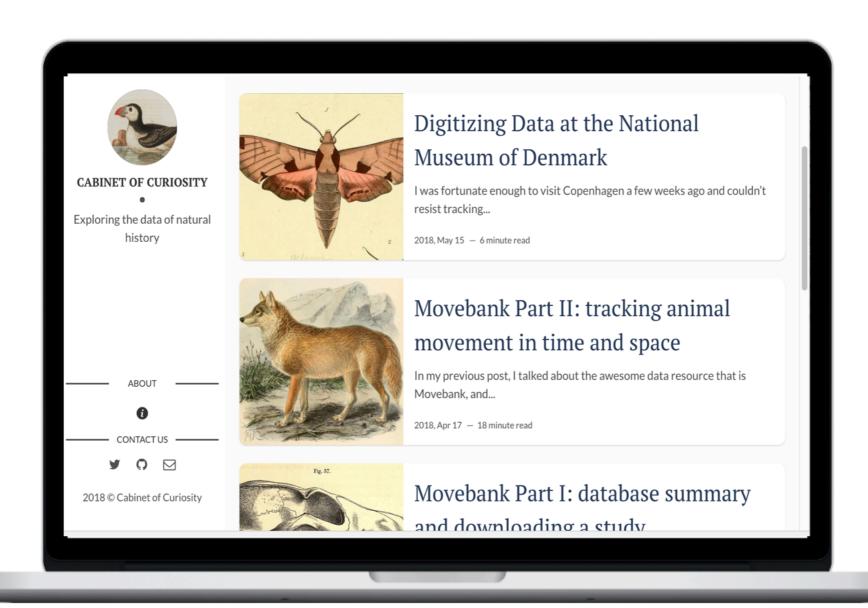
Mozilla Project Goals

- 1. Empower programmers to build tools to help researchers use data.
- 2. Create tutorials, curriculum, and data standards for Natural History Data community and classrooms.
- 3. Reinforce and support continuation and sustainability of digizitation efforts.

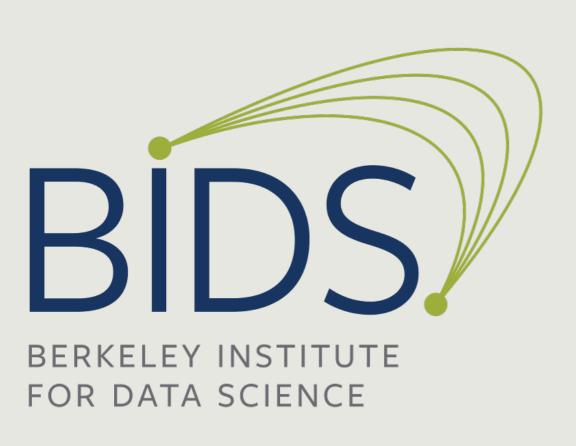


Cabinet of Curiosity

Exploring the data of natural history

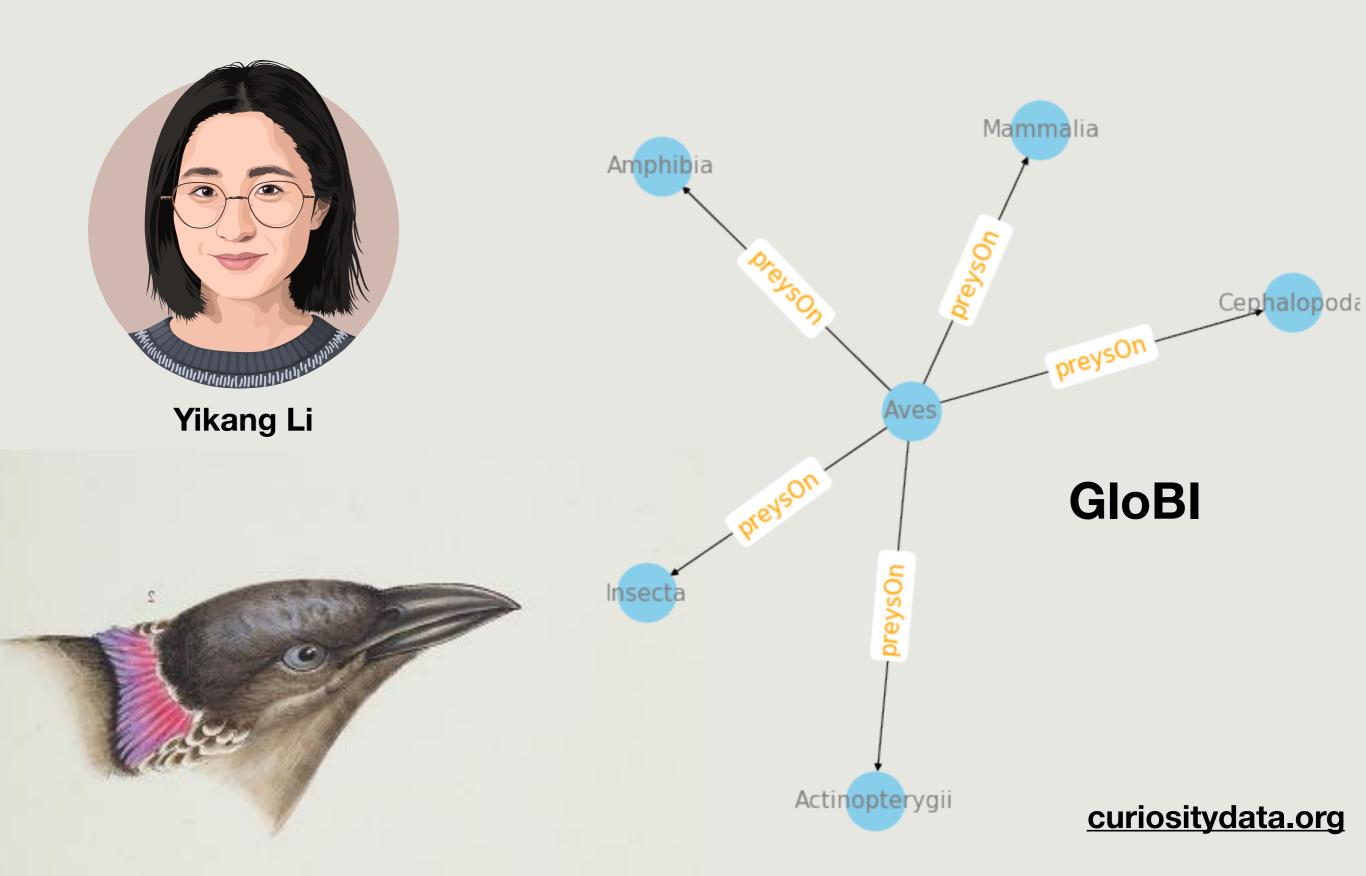


curiositydata.org/

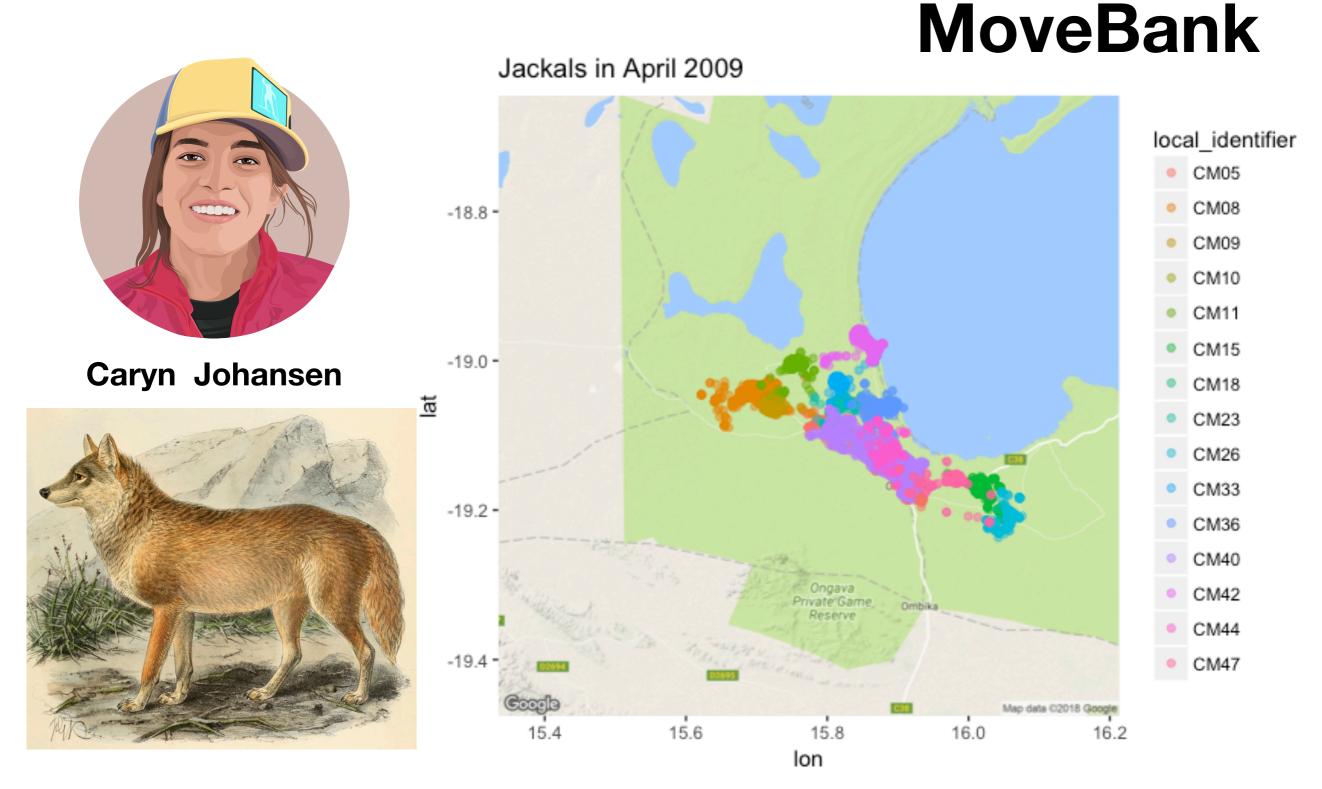




Ask how animals interact with network graph visualization

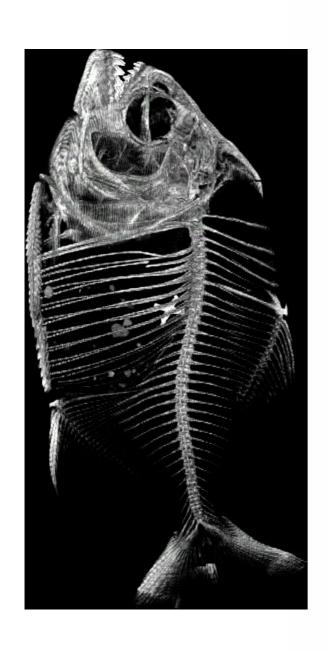


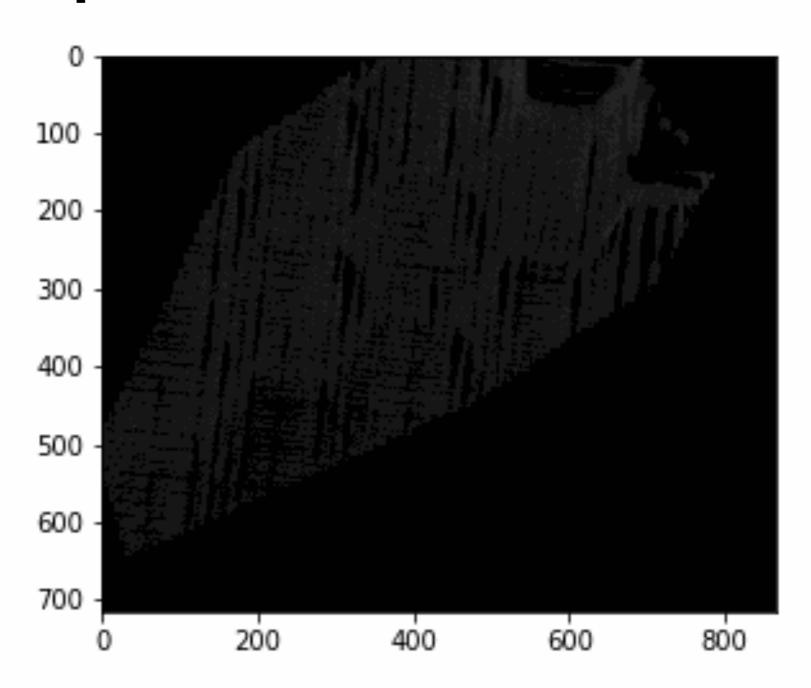
Tracking animal movement in time and space



curiositydata.org

Soon: Explore 3D animal skeletons using Python Morphosource



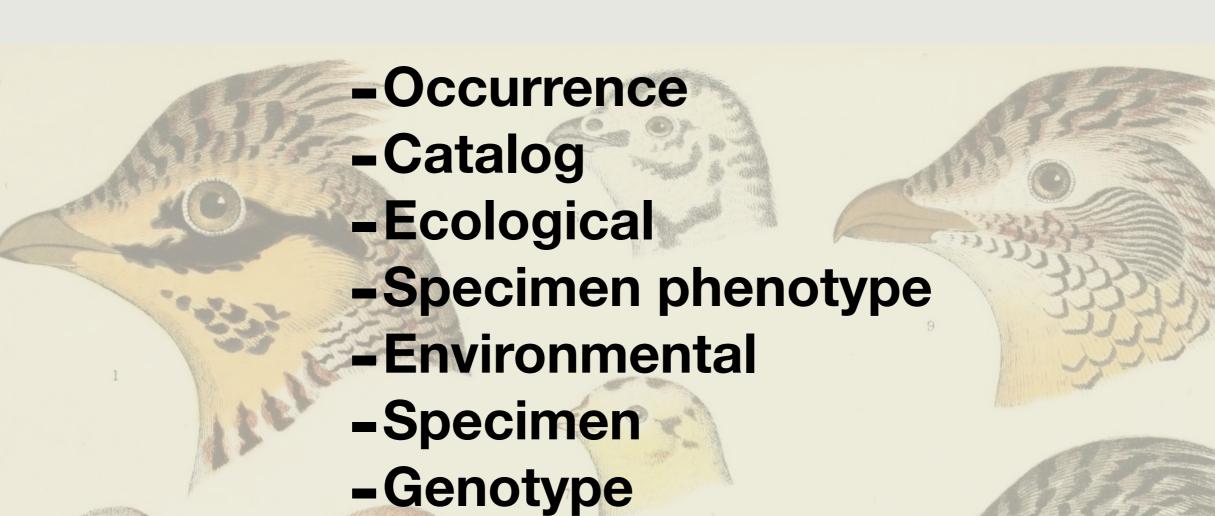


Other data

- Occurrence
- Catalog
- Ecological
- Specimen phenotype
- Environmental
- Specimen
- Genotype

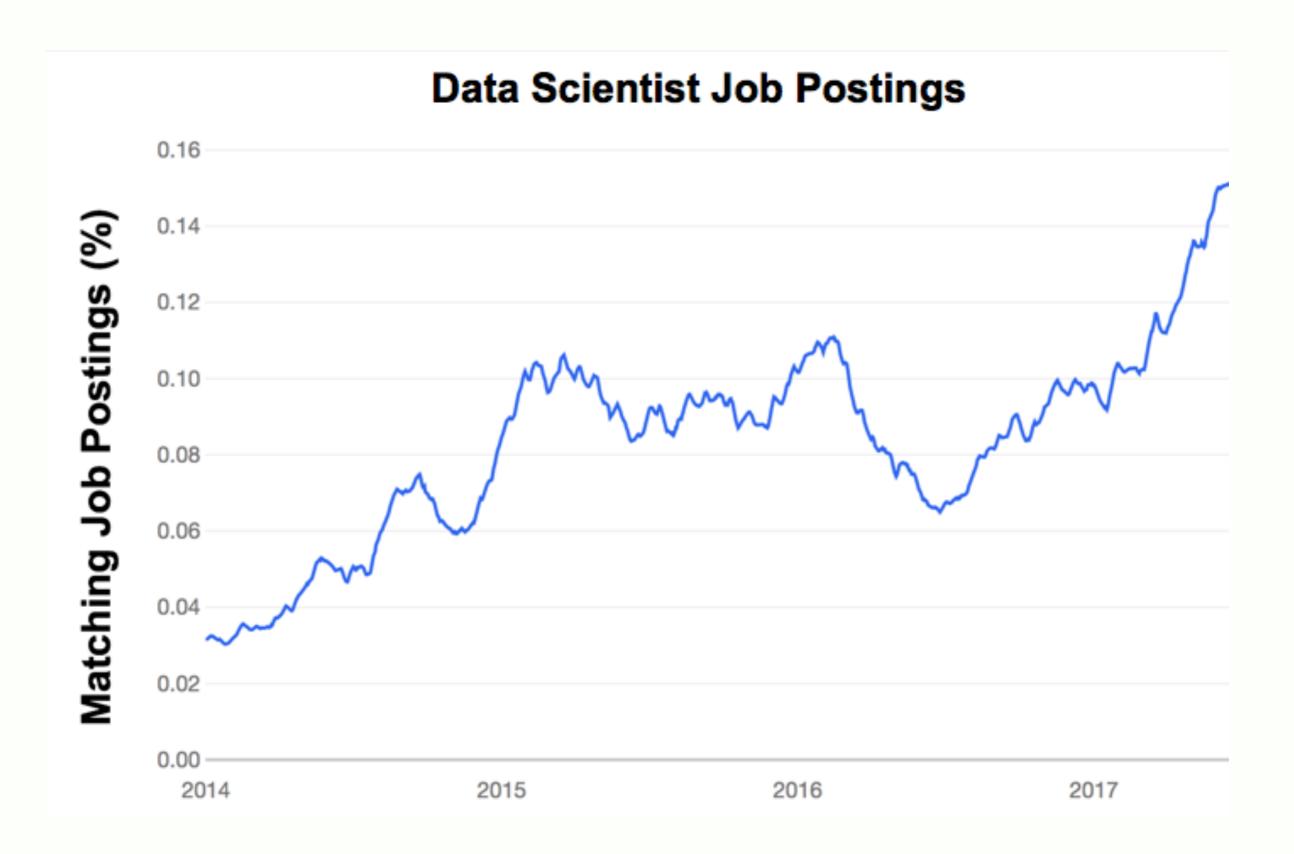
List of Databases with free data: bit.ly/data_list

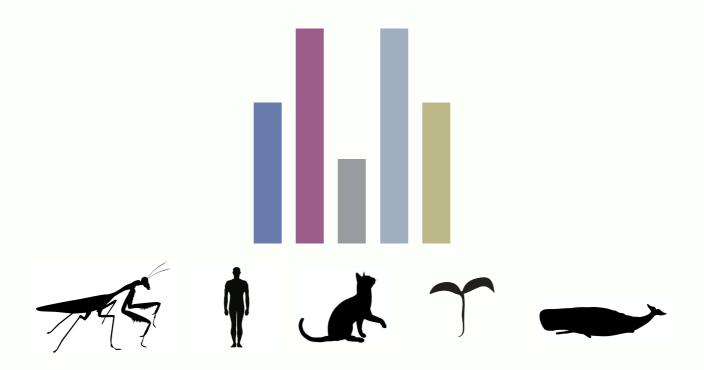
Other data



List of Databases with free data: bit.ly/data_list

Become a Data Scientist





Find me at



@cierareports



@iamciera

cieramartinez.org

Mozilla project

curiositydata.org

mozillasciencefellows.org

How to contribute: bit.ly/coc_homebase

Who am !?

- Sara Stoudt
- PhD Candidate in Statistics at UC Berkeley
- Berkeley Institute for Data Science Fellow
- @sastoudt
- https://sastoudt.github.io/
- **Coming Soon**: LA Times Data Desk Intern
- **Coming Soon**: Communicating with Data: The Art of Writing for Data Science (with Deb Nolan)

Why work in the open?

My experience blogging about #rstats

Get Motivated

Confessions of a Tidyverse Straggler

PUBLISHED ON APR 18, 2018

These are my confessions...



Obligatory Usher Reference

I learned R before the tidyverse (shout out to @BaumerBen's Multiple Regression class Fall 2016) and have failed to update my skills. There, I said it. I'm a statistics PhD student whose code is riddled with dollar signs (pull Sara!) and the occassional loop that I've never wrangled into a proper apply statement (which should now be switched to purrr?). And although I have picked up some ggplot2 and dplyr (I'm not THAT much of an R hermit), I really don't know what new functionality is available. This prevents my code from keeping up with the times. It has always been on my to-do list to work through the tidyverse documentation so that I can start using the packages in my own work, but I've always prioritized "done" over "pretty".

But no longer! My plan of attack is to start blogging about my tidyverse immersion, one package at a time. Each week(ish) I will read up on a tidyverse package and ideally, update some gross code from one of my current or previous projects,



Get Help



Tardy #TidyTuesday still in progress... #rstats users give me strength. Can someone please show me how to make the geom_bar fill order match the legend?



sastoudt/tidytuesday

Repo for initial setup of the #tidytuesday visualization project - sastoudt/tidytuesday aithub.com

9:24 PM - 17 May 2018



Get Comfortable



you can teach a base R dog tidy tricks: some reflections on my adventures in tidyverse sastoudt.github.io/blog/2018/09/0 ... Stay tidy my friends!



Home About Blog

STAT 198 Blogging for Data Science

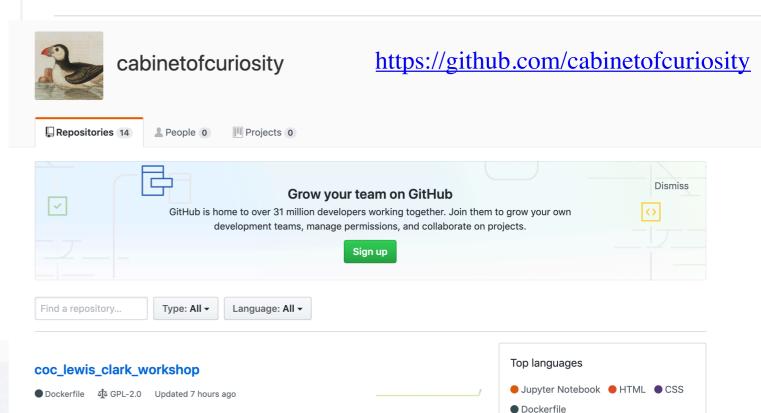
Spring 2018

https://stat198-spring18.github.io/

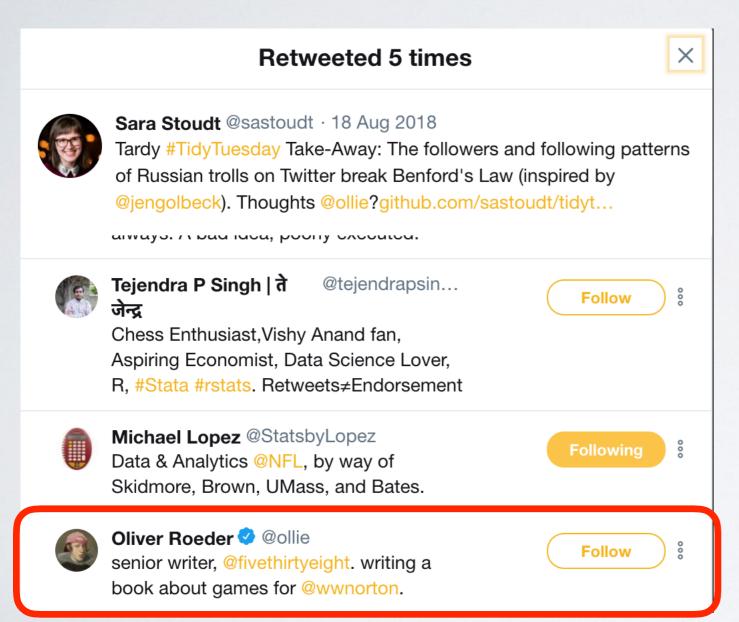
UC Berkeley

Professor Deborah Nolan

Graduate Student Instructor: Sara Stoudt



Get Noticed



- I got my interview and internship offer for the LA Times all in DMs on Twitter.
- My blog and Tidy Tuesday entries served as my data journalism portfolio.

https://sastoudt.github.io/tidytuesday/week20/

Resources

- http://varianceexplained.org/r/start-blog/
- https://alison.rbind.io/post/up-and-running-withblogdown/
- https://github.com/rfordatascience/tidytuesday