From learn-R to teach-R:

An expert panel on effective R instruction

- We will start at **6:10pm** to allow everyone to join
- The event will be **recorded** and posted on R-Ladies Philly's Youtube channel!
- While we wait for the event to get started, please head over to **Slido** for a few questions...

slido.com
Event code: **#rladies-philly**

Agenda

6.10-6.20pm: **Introduction**

6.20-6.50pm: **Panel presentations**

5 minute break!

6.55-7.40pm: **Discussion and Q&A**

Thursday, Feb 18, 2021

Live-tweet this event: @RLadiesPhilly, #RLadies

Worldwide organization

...that promotes **gender diversity** in the **R community**

...via **meetups** and **mentorship**

...in a **friendly** and **safe** environment

rladies.org/code-of-conduct/

Announcements

- Mentor/Speaker directory: rladiesphilly.shinyapps.io/mentorship/
- Our Youtube channel: yt.vu/+rladiesphilly
- Slack: tiny.cc/rladies-phl-slack
- Upcoming R-Ladies Philly events: meetup.com/rladies-philly/
  - **Virtual Happy Hour**, March 4th
  - **Datathon 2021**, March-April
  - **Lightning Talks**, June 15th
- Feedback on **`headliner`**: tiny.cc/headliner-feedback

R LADIES PHILLY

&

Judge Accountability Table

2021 DATATHON

KICKOFF

Wed, 3/17 6-8pm

Exploring judicial patterns in Philadelphia courts

Photo by Tingey Injury Law Firm on Unsplash

Today's event

- Ama Nyame-Mensah, PhD anyamemensah.com
- Cass Wilkinson Saldaña, MSI cassws.net
- Silvia Canelón, PhD silvia.rbind.io

Slido for Q&A
★ Add questions
★ Upvote questions

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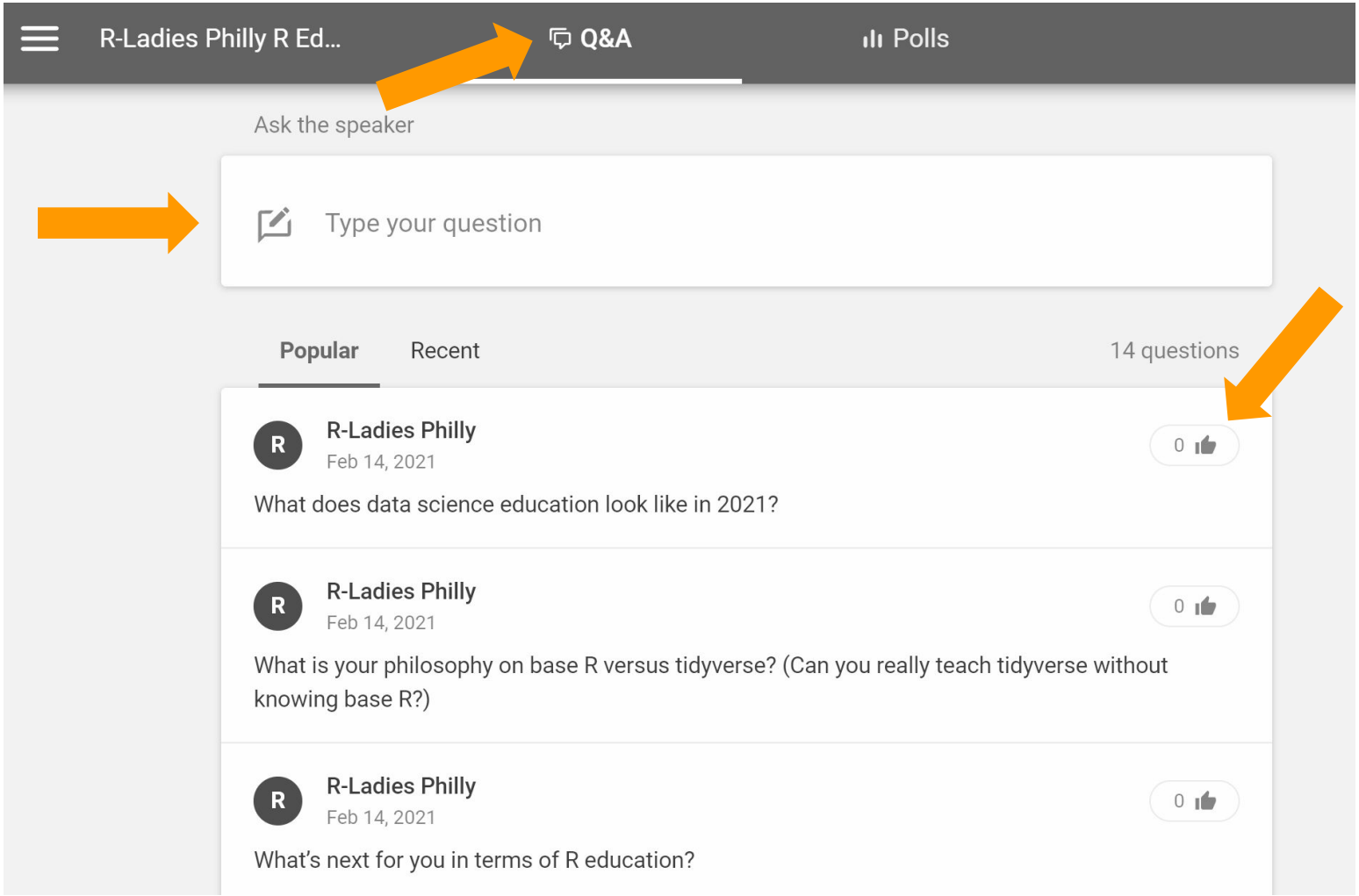
R-Ladies Philly R Ed...
Q&A
Polls
Ask the speaker
Type your question
Popular
Recent
14 questions
R-Ladies Philly
Feb 14, 2021
0
What does data science education look like in 2021?
R-Ladies Philly
Feb 14, 2021
0
What is your philosophy on base R versus tidyverse? (Can you really teach tidyverse without knowing base R?)
R-Ladies Philly
Feb 14, 2021
0
What's next for you in terms of R education?

Today's event

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Ama Nyame-Mensah

Postdoctoral Fellow & Data Consultant

```
Ama %>%
    learn(econ, policy, welfare) +
    education(UDEL, UPENN) +
    work(CRA) +
    work(UPENN) +
    work(Consultant)
```

Programming

A creative process

Teaching R

My "pedagogy"

- Show don’t (just) tell
- Explain the context not (just) the code
- Encourage active learning and play

We are all learners-educators!

Tips for engaging with data science learning communities

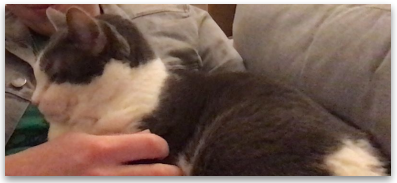
Cass Wilkinson Saldaña, M.S.I

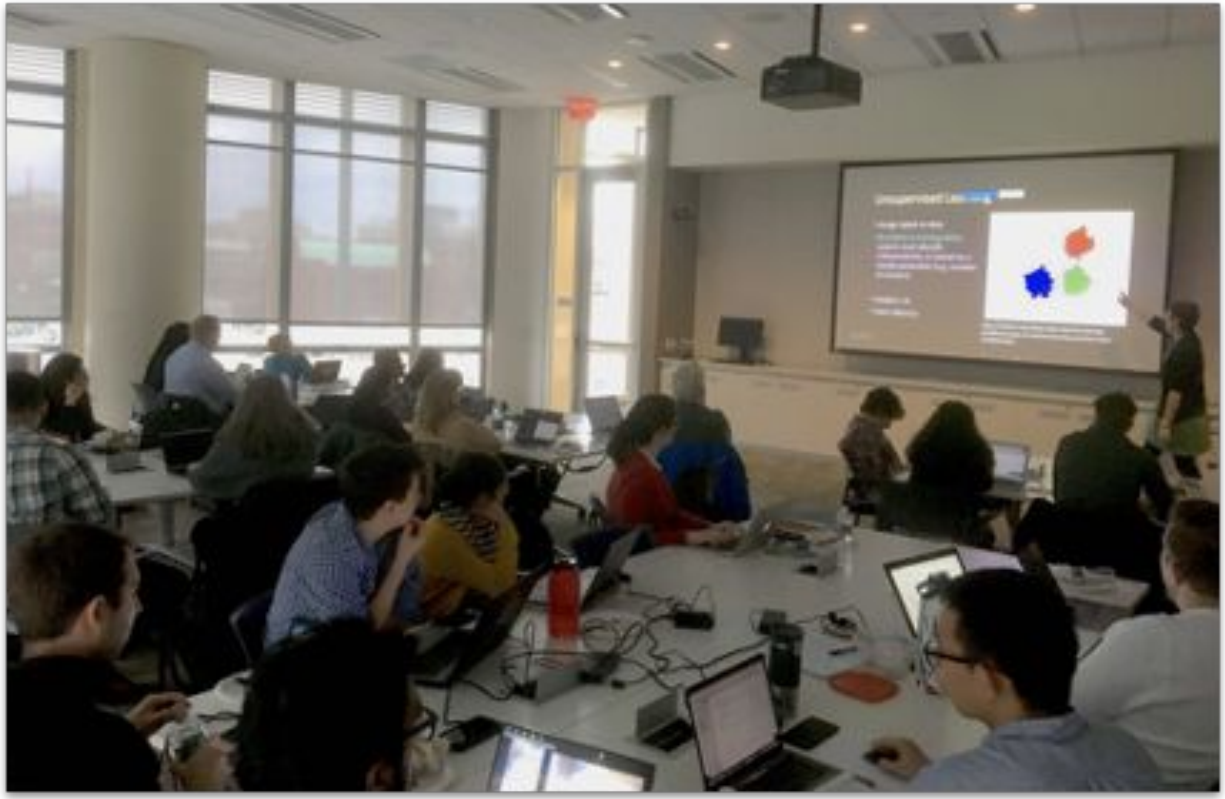
Hello!

Data Instructional Specialist at the **Children's Hospital of Philadelphia**

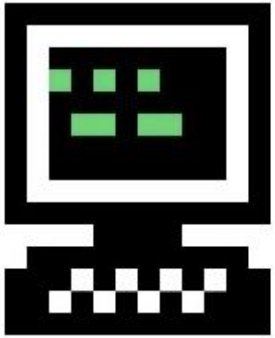
First computer class taught as an **AmeriCorps service member** in the Saint Paul Public Library

Enjoys: **pinball, games**, **cats!**





My communities of practice



Recurse Center

What are some strategies to help you approach data communities as **both a learner and educator?**

Ask questions in community spaces - asking help grow relationships + community

Share your curiosity (not just your expertise!) when possible in blog posts + talks

Reach out one-on-one - and maybe try **pair programming!**

(Isabella Velásquez's amazing blog: ivelasq.rbind.io/blog/vscode-live-share/)

Welcome newcomers into the community

Silvia Canelón, PhD

silvia.rbind.io • @spcanelon

Postdoctoral Research Scientist
at the University of Pennsylvania

RStudio Certified Tidyverse Instructor

Teaching experiences so far

As the instructor

- August 2020: R-Ladies Chicago
  An Antarctic Tour of the Tidyverse
- November 2020: NHS-R Community Conference
  Sharing Your Work with xaringan
- December 2020: R-Ladies Xalapa
  Introducción al Paquete xaringan

As a teaching assistant

- August 2020: R Medicine Conference
  - Dr. Stephan Kadauke
    101: Intro to R for Clinicians
  - Dr. Alison Presmanes Hill
    201: Intro to Machine Learning with Tidymodels
- October & December 2020
  - Dr. Stephan Kadauke
    CHOP R 101: Intro to R for Clinical Data

R-Ladies learning experiences so far

This list is much longer! There's always something to learn :)

- Data Science Lightning talks (R-Ladies Philly)
- Machine Learning Workshop (R-Ladies Philly)
- Cómo preparar una propuesta de presentación para una conferencia/meetup sobre R (R-Ladies Santiago)
- First steps in spatial data handling and visualisation (R-Ladies Johannesburg)
- Workshop: Mapas interactivos con R para la Gestión en Salud Pública (R-Ladies Lima)
- Your first R package in 1 hour: Tools that make R package development easy (R-Ladies Philly)
- Blogging with RMarkdown (R-Ladies Johannesburg)
- Web Scraping in R (R-Ladies Tunis)
- Getting the most out of text - Using supervised & unsupervised approaches in NLP (R-Ladies Tunis)
- Expresiones regulares para la limpieza y transformación de datos (R-Ladies Tunis)

Concept Maps: the what

A concept map represents a **mental model** and can be helpful to

- Help teachers figure out what they're trying to teach
- Aid communication between lesson designers
- Aid communication with learners
- For assessment

Material from
Teaching Tech Together
by Greg Wilson

Concept Maps: the how

1. Pick a topic
2. Write down two words associated with that topic
3. Draw a line between the words
4. Label the line to explain how the words are related
5. Ask yourself:
    a. what other things are related in the same way?
    b. what parts make up these other things?
    c. what comes before or after the concepts you wrote on the page?

Material from
Teaching Tech Together
by Greg Wilson

Concept Maps: the why

The average adult's **short-term memory**, or working memory, can hold only 7±2 items at a time

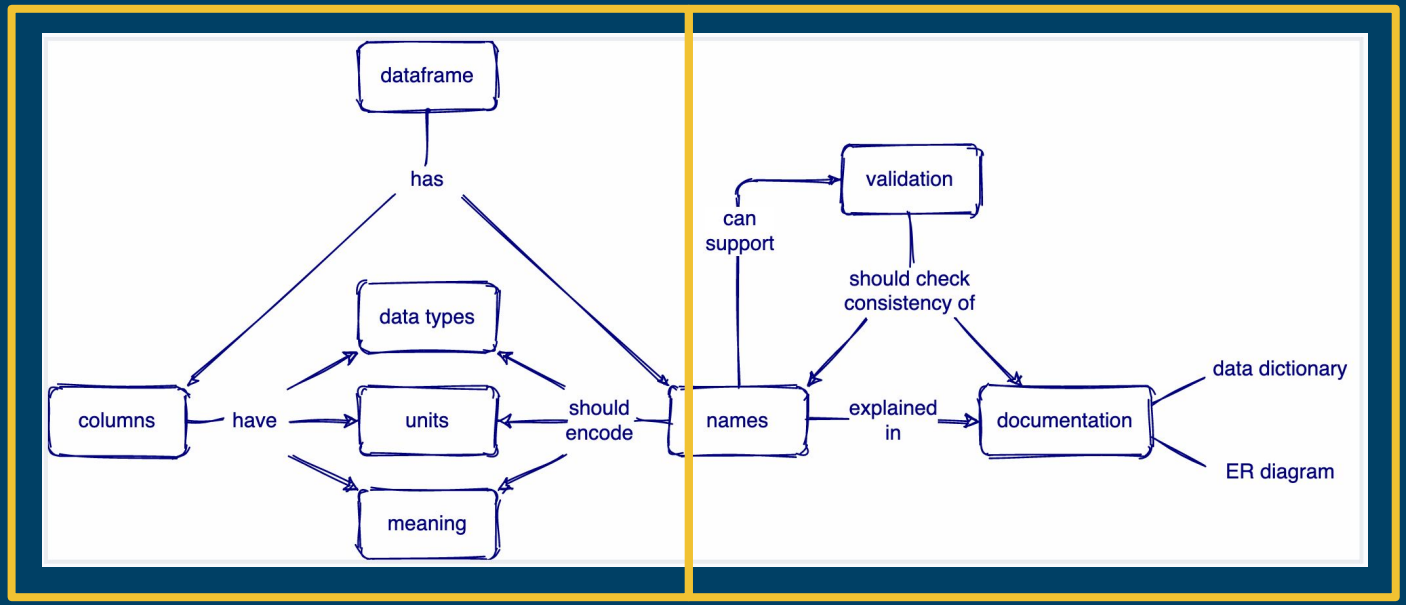
- Short-term knowledge makes it into long-term memory only after being held there and rehearsed
- Too much information too quickly means new information displaces the old information
- A concept map can help ensure a learner's short-term memory won't be overloaded

Material from
Teaching Tech Together
by Greg Wilson

Concept Maps: in practice

- An educator can teach one subsection of the concept map at a time and provide then provide an assessment

Roughly
6 concepts
+ 3 connections
= 9 items



Roughly
3 concepts +
5 connections =
8 items

Column names concept map
by Emily Riederer

Thank you!

We will post the recording on YouTube in the next couple of weeks!