

# R for Computational Sciences

Part 1. getting started, EDA, data wrangling

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# R for computational sciences

quickStart: Projects, data wrangling, EDA, viz

## Flipped Workshop

Aug 26, 10am to Noon

1. Did you already **complete** the pre-workshop **survey**? (check your email)
2. **You watched the videos** (part 1a and 1b) and have questions
3. We will start exercises and answer questions as the countdown reaches zero...

<https://JohnLittle.info>  
<https://Rfun.library.duke.edu>

Data Science Librarian  
Center for Data & Visualization Sciences  
Duke University Libraries  
[library.duke.edu/data](https://library.duke.edu/data)

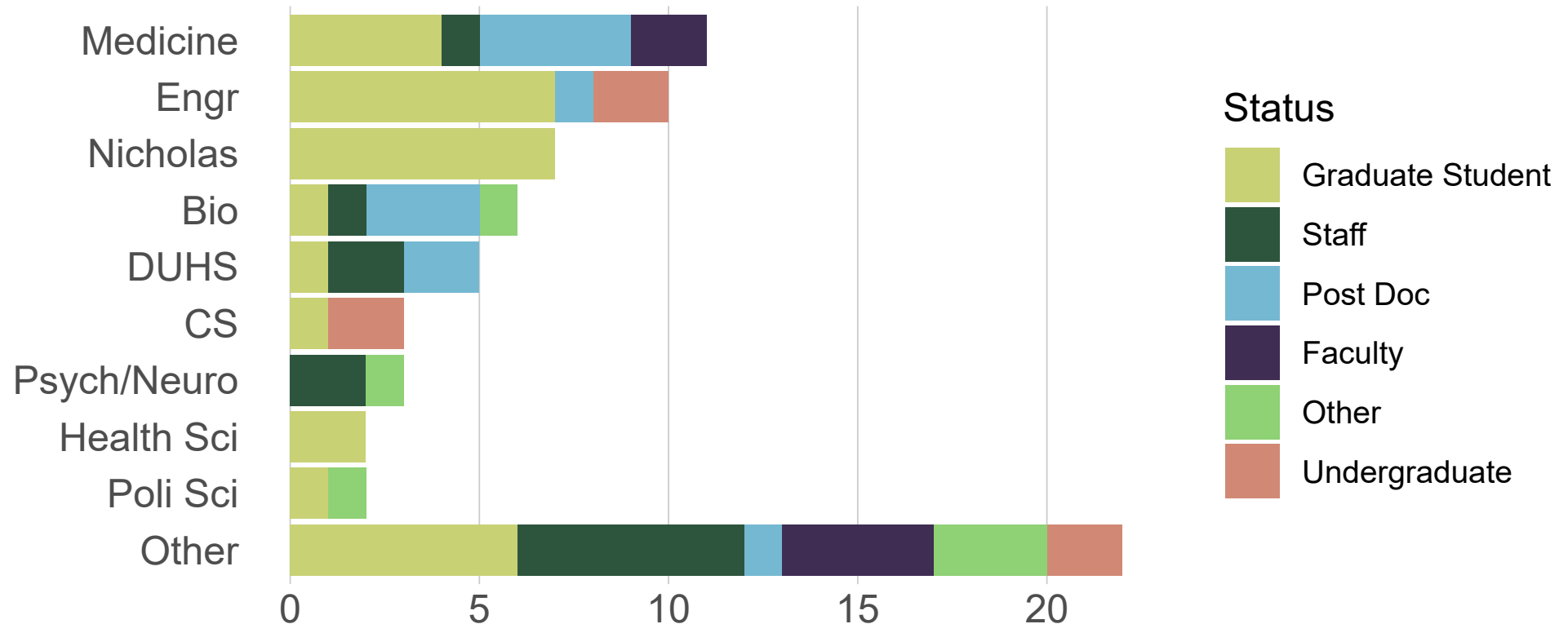
14:17

# Duke University: Land Acknowledgement

I would like to take a moment to honor the land in Durham, NC. Duke University sits on the ancestral lands of the Shakori, Eno and Catawba people. This institution of higher education is built on land stolen from those peoples. These tribes were here before the colonizers arrived. Additionally this land has borne witness to over 400 years of the enslavement, torture, and systematic mistreatment of African people and their descendants. Recognizing this history is an honest attempt to breakout beyond persistent patterns of colonization and to rewrite the erasure of Indigenous and Black peoples. There is value in acknowledging the history of our occupied spaces and places. I hope we can glimpse an understanding of these histories by recognizing the origins of collective journeys.

# Attendance by Discipline

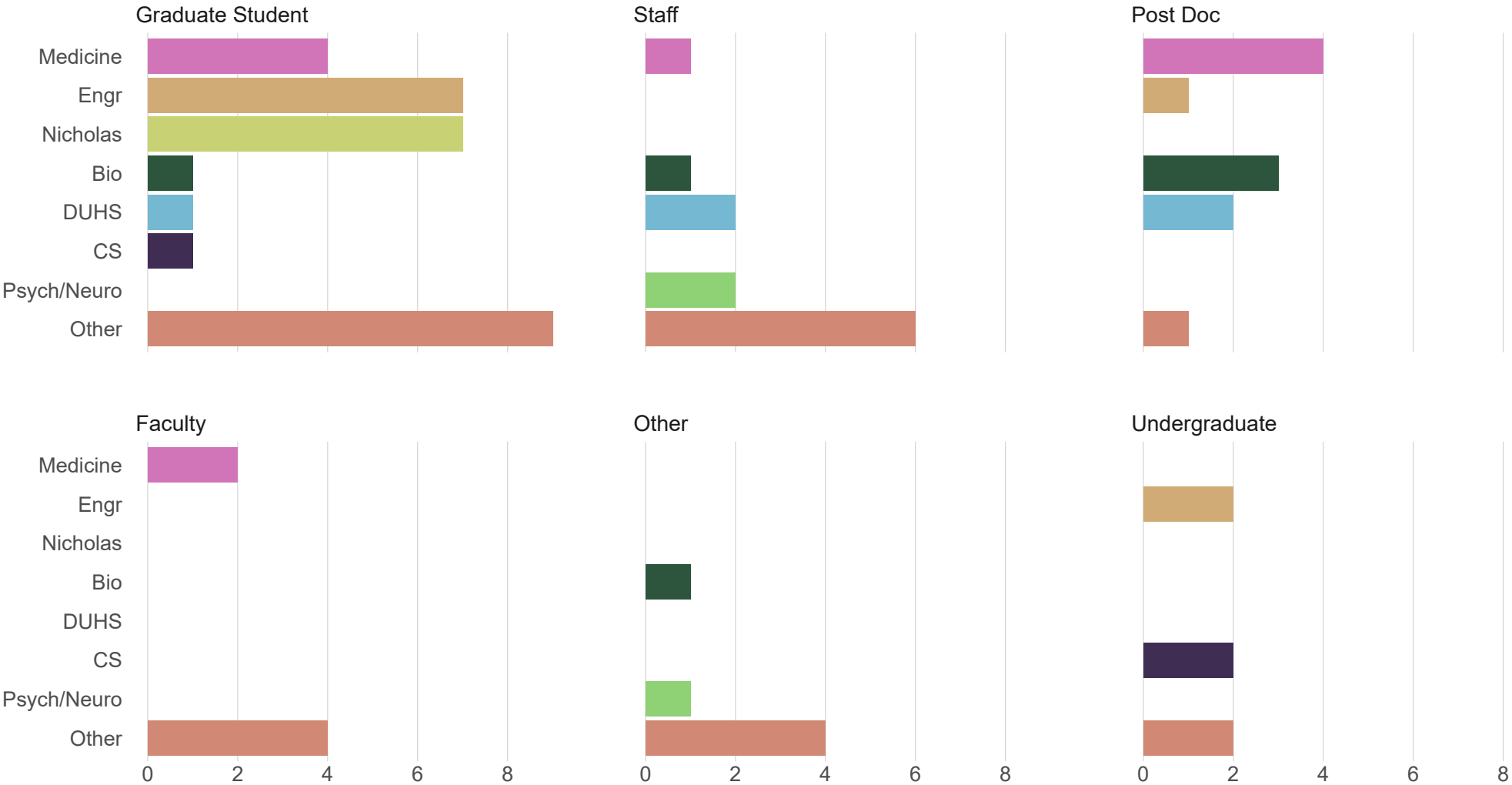
CDVS Workshop: quickStart R Part 1



Source: CDVS Workshop Registration

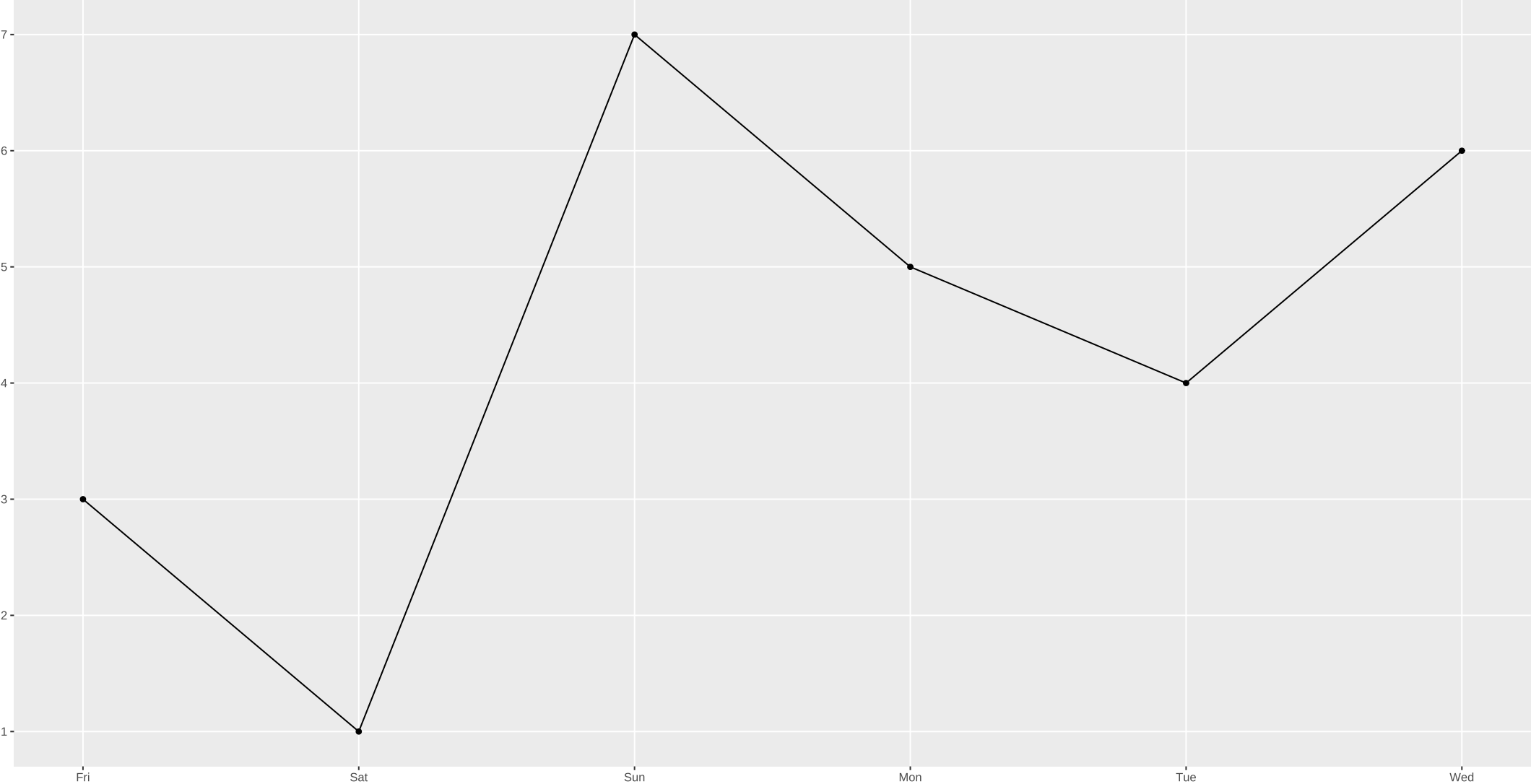
# Attendance by Discipline

CDVS Workshop: quickStart R Part 1



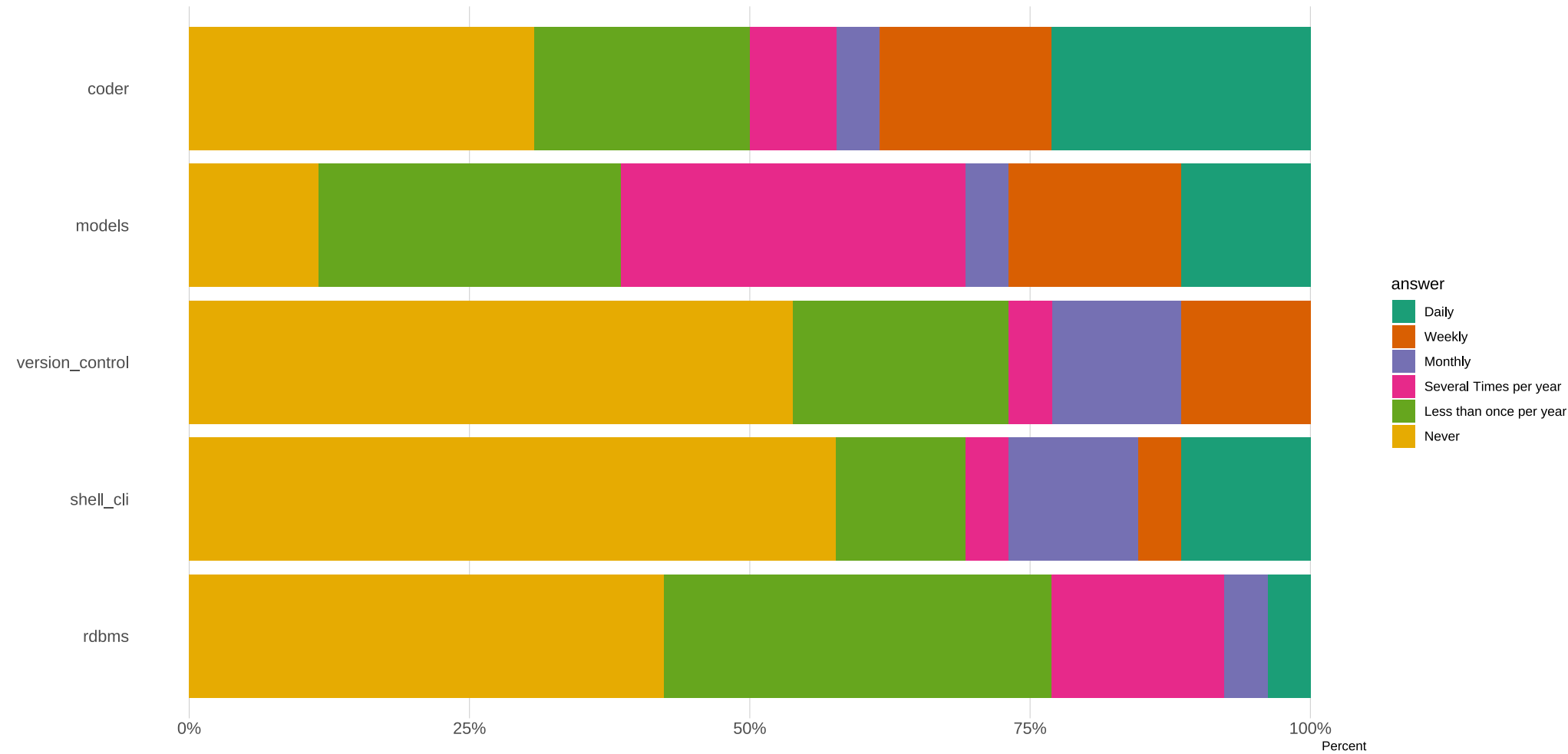
Source: CDVS Workshop Registration

Response rate over time  
n = 26 ; 35% response rate



# Self-reported tool usage

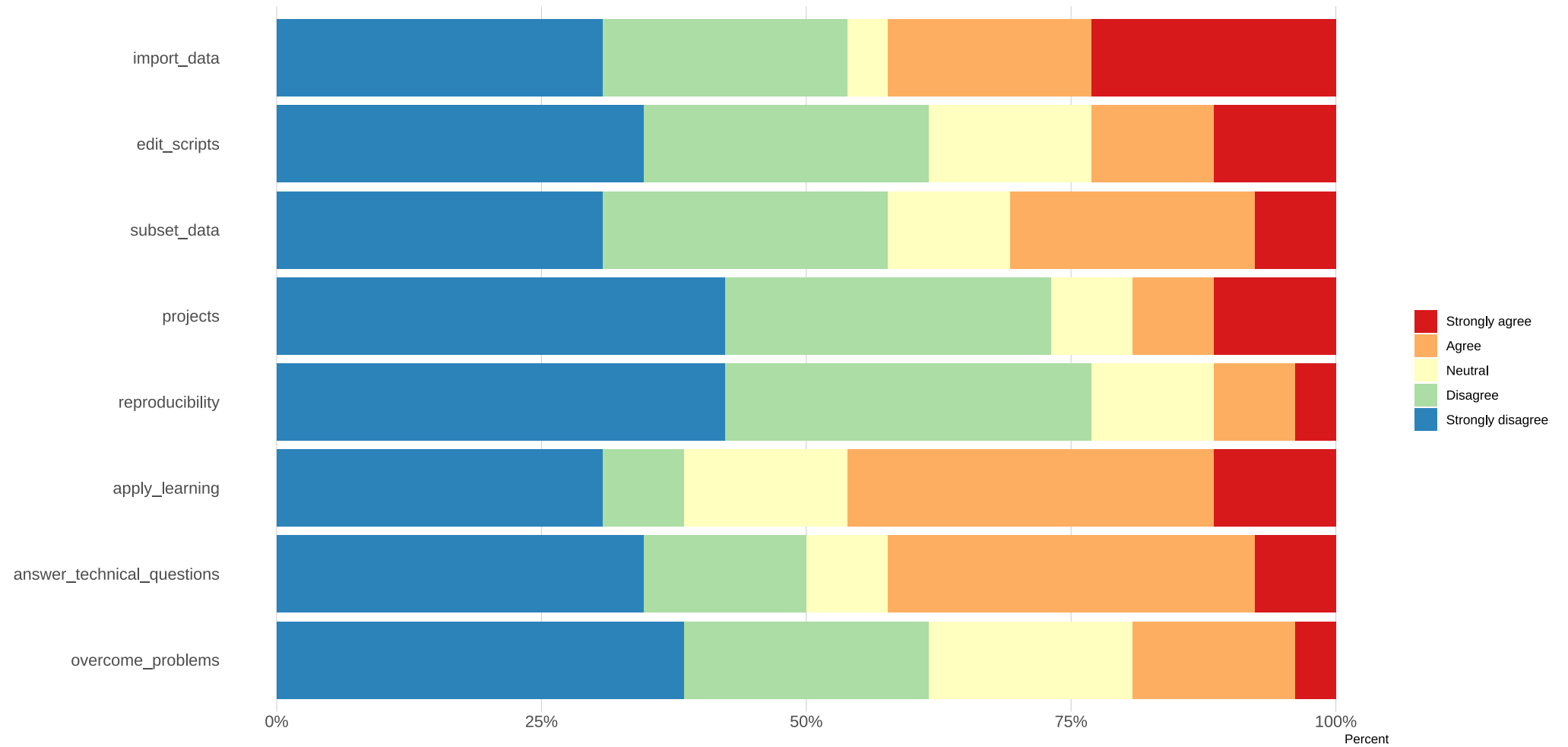
Respondent's use of a tool / technology / technique



Source: CDVS Pre-workshop survey

## Self-reported R skills

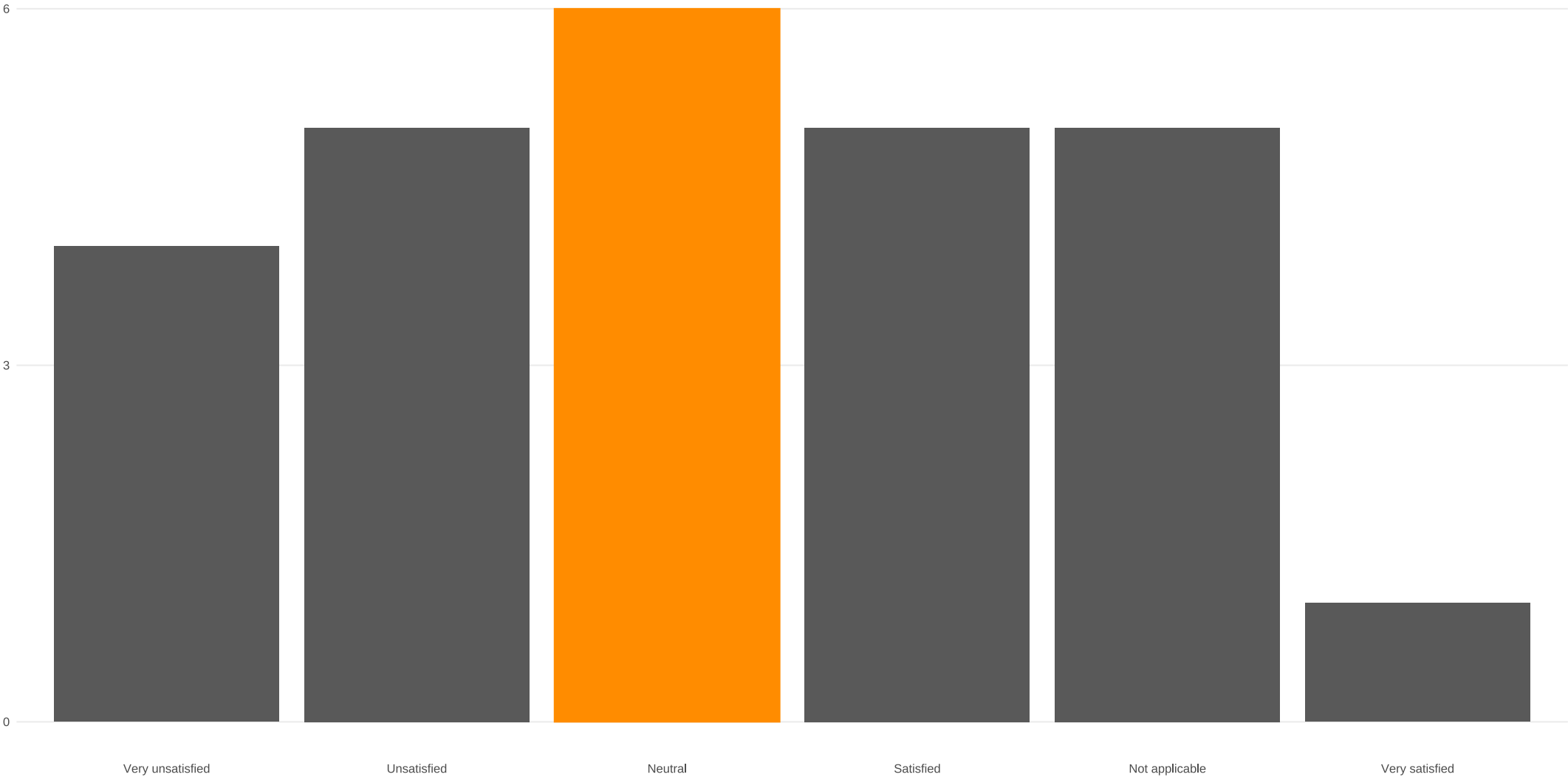
Respondents feel capable of completing a Tidyverse task



Source: CDVS Pre-workshop survey



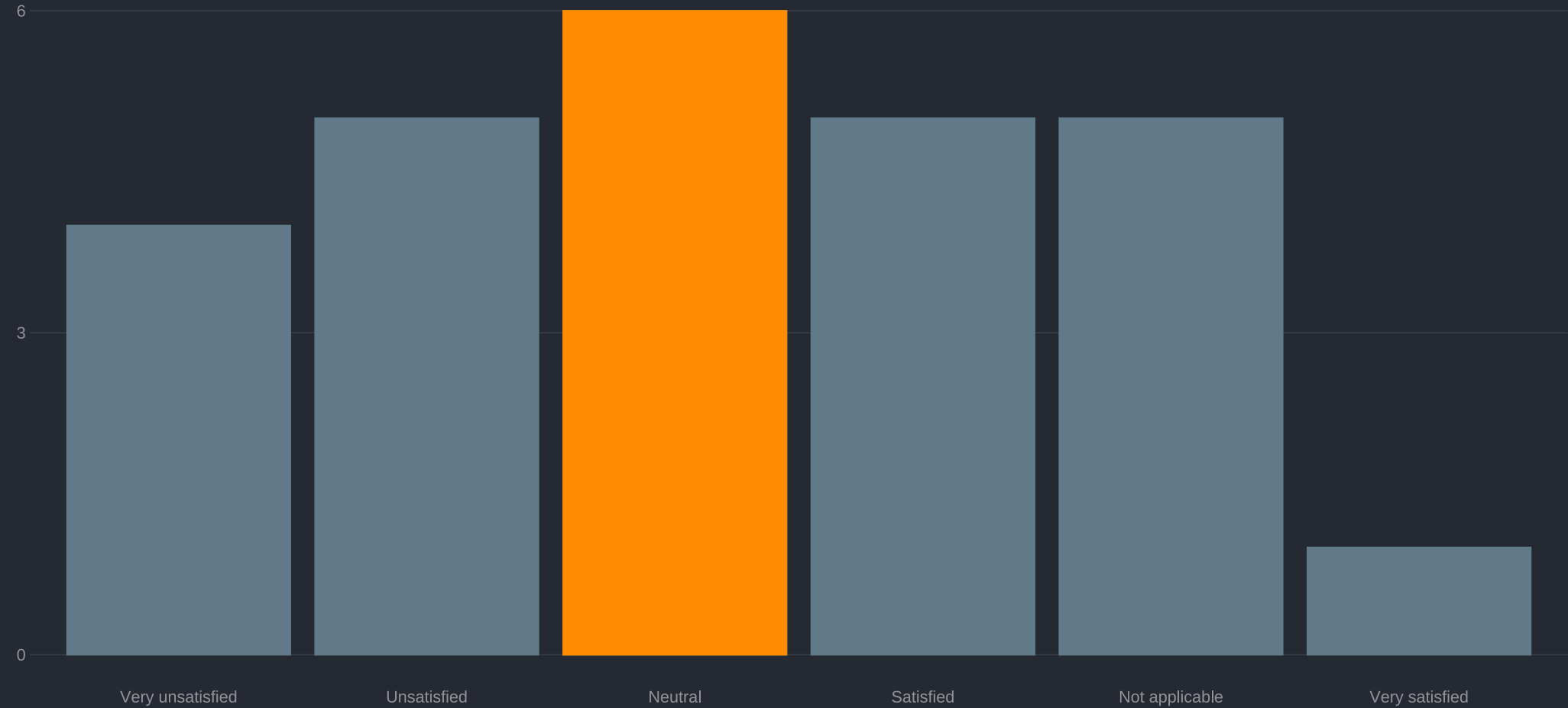
Satisfaction with current Data Management workflow  
self reported



Source: CDVS Pre-workshop survey

Satisfaction with current Data Management workflow

self reported



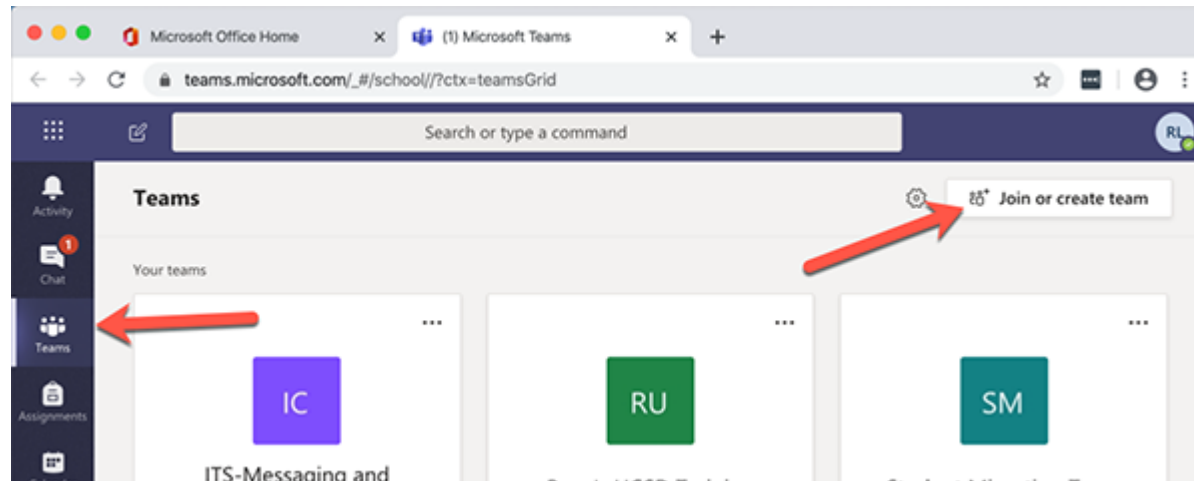
Source: CDVS Pre-workshop survey

# Microsoft Teams: Rfun

Rfun on MS Teams is a professional learning community for Duke U.

*Teams like Slack*

Join with code **ko8ovx2**



Or, [https://is.gd/rfun\\_teams](https://is.gd/rfun_teams)

# So let's chat

We're happy to consult with you. We can make the details relevant to your project

Title	URL
Schedule me for consultations	<a href="https://is.gd/littleconsult">https://is.gd/littleconsult</a>
Consulting & <a href="mailto:AskData@Duke.edu">AskData@Duke.edu</a>	<a href="https://library.duke.edu/data/consulting">https://library.duke.edu/data/consulting</a>

## Resources

It's all online

Title	URL
rfuncodebase	<a href="https://github.com/libjohn/rfuncodebase">https://github.com/libjohn/rfuncodebase</a>
exercises	<a href="https://github.com/libjohn/intro2r_exercises">https://github.com/libjohn/intro2r_exercises</a>
Rfun	<a href="https://rfun.library.duke.edu">https://rfun.library.duke.edu</a>
Center for data & Viz	<a href="https://library.duke.edu/data">https://library.duke.edu/data</a>

# Reprex

*The most efficient way to get help*

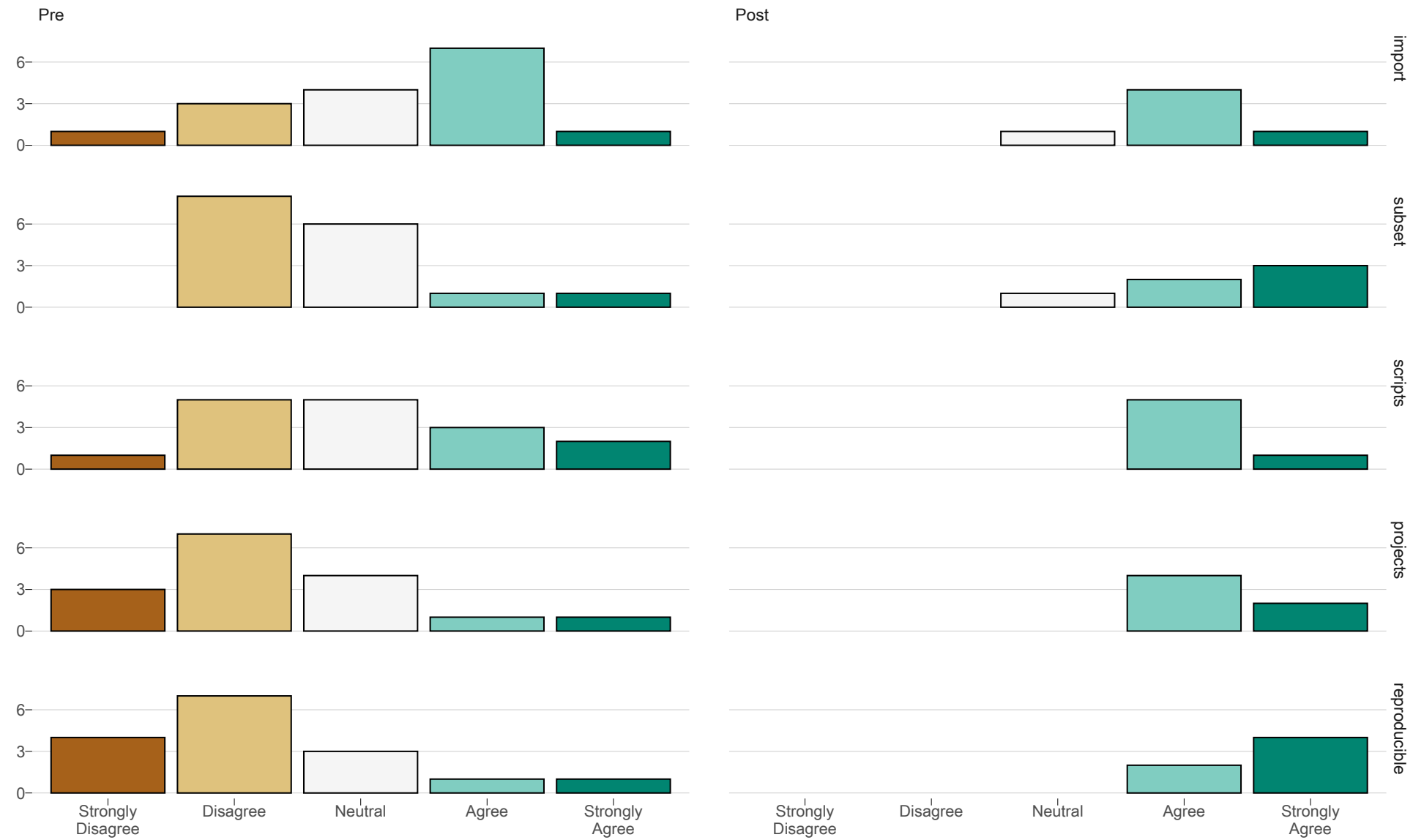
REPRoducible EXample and Code

<https://reprex.tidyverse.org>

Use the smallest, simplest, most built-in data possible

Include commands on a strict “need to run” basis

Comparison of Pre & Post survey results



Source: Registrant surveys at time of workshop

