

# Analysis of The Carpentries Long-Term Surveys

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## Contents

Respondents Career Stage . . . . .	1
Respondents Field of Research, Work, or Study . . . . .	3
Number of Carpentries Workshops Completed . . . . .	4
Time Since Completing a Carpentries Workshop . . . . .	4
Last Carpentries Workshop Attended . . . . .	5
Content Covered at Last Carpentries Workshop . . . . .	5
Behaviors Adopted . . . . .	6
Comparison of Programming Usage Pre- and Post-Carpentries Workshop . . . . .	7
Change in Confidence in Tools Covered at Workshop . . . . .	7
How Tools Help Respondents . . . . .	8
Carpentries Workshop Contributing to Research . . . . .	9
Potential Impact on Respondents . . . . .	10
Involvement in Carpentries Community Post-Workshop . . . . .	11
Respondents Participating in Learning Activities . . . . .	12
Respondents Who Recommended a Carpentries Workshop . . . . .	13
Recommendation and Net Promoter Scores . . . . .	13
Respondents' Gender Identity . . . . .	14
Respondents' Racial/Ethnic Identity . . . . .	14

In the fourth quarter of 2019 The Carpentries collected feedback from community members who took a Carpentries workshop within six months. Find more information about this data collection period on our blog. We are excited to release the results of our long-term survey, and invite community members to use this data to champion The Carpentries far and near.

We released our first long-term survey results in October 2017. You can find the report and its source in the assessment GitHub repository.

The results included in this report only cover the data collected in 2019 (between November 1st, 2019 and January 2nd, 2020). This report includes the analysis of 176 responses but most questions are optional and specific questions have less answers.

## Respondents Career Stage

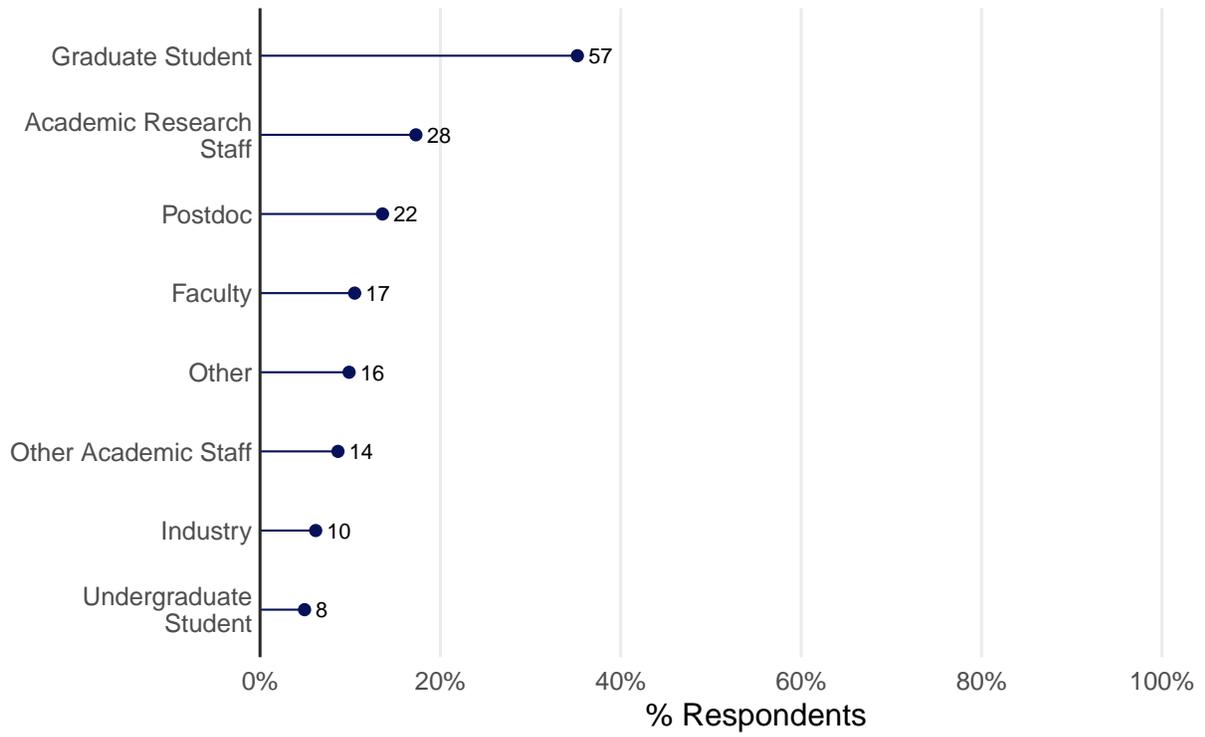
The majority of long-term survey respondents are graduate students. “Other academic staff” includes Librarians, Research Software Engineers, IT Staff, and Government Research Staff.

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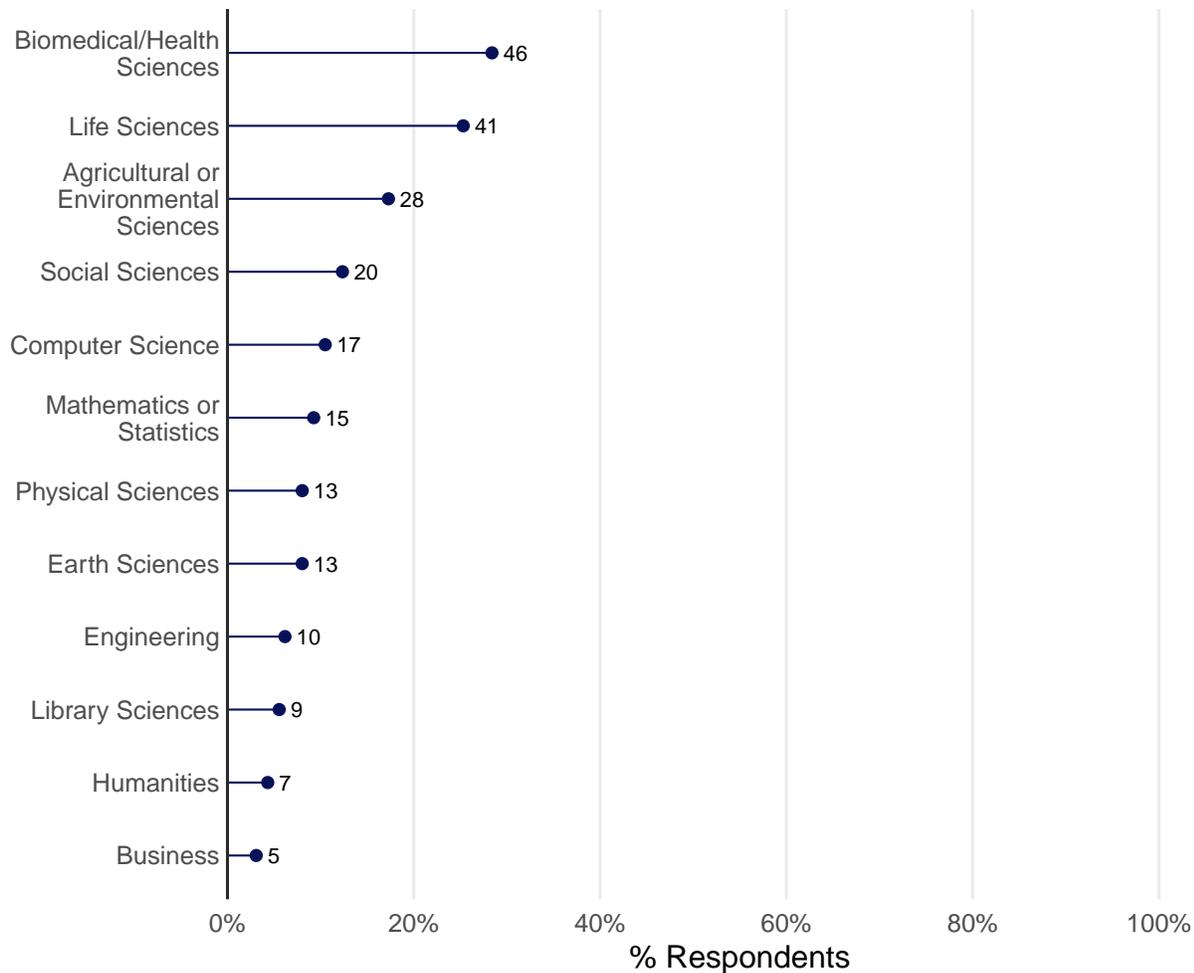
### What is your current career stage? (n = 162)



Multiple answers allowed

### Respondents Field of Research, Work, or Study

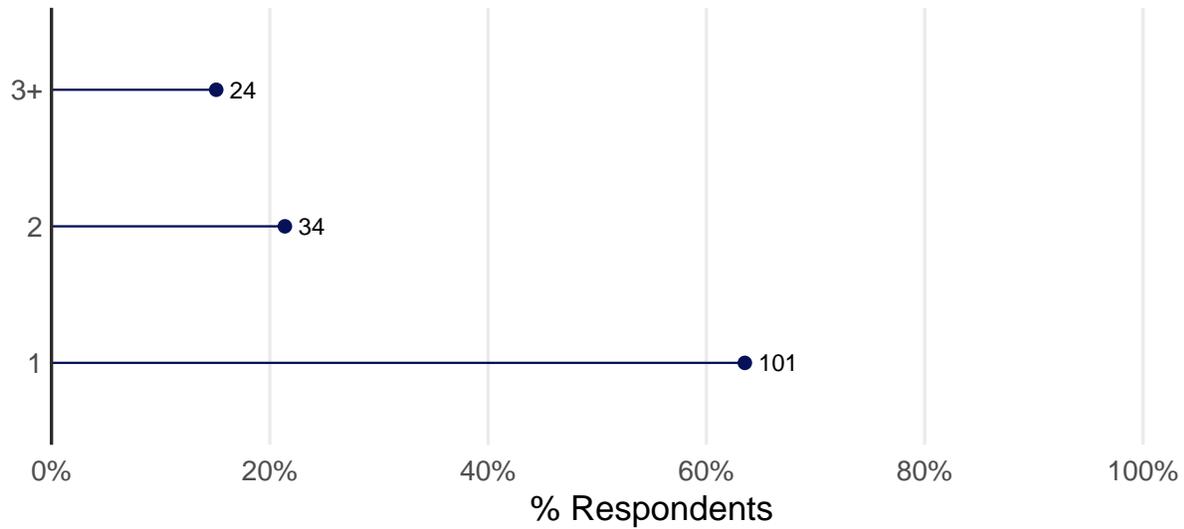
**What is your field of research, work, or study? Check all that apply. (n = 162)**



Multiple answers allowed

### Number of Carpentries Workshops Completed

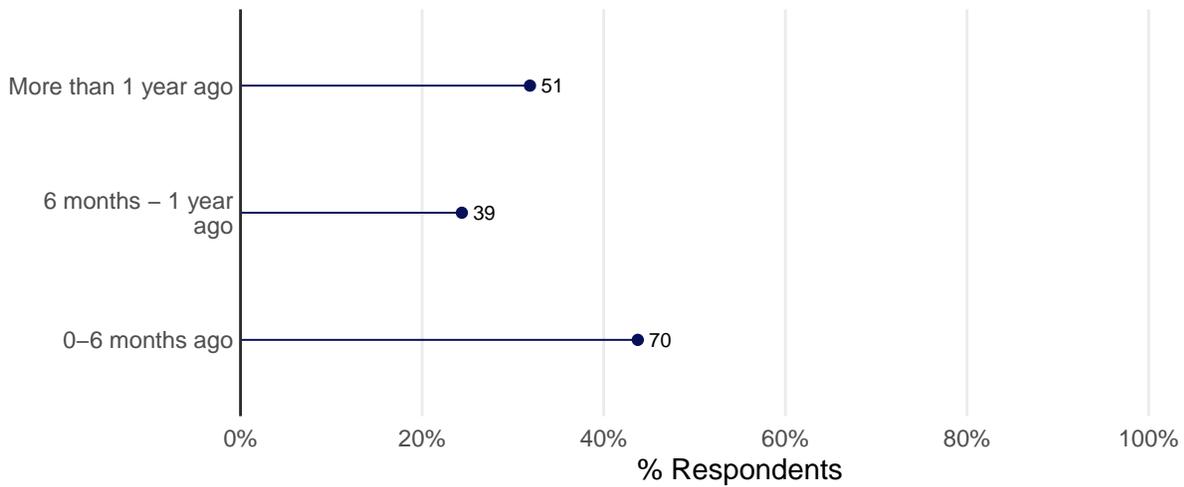
**How many Carpentries (Software, Data, Library) workshops have you completed as a learner?**



Number of answers reported on the graph

### Time Since Completing a Carpentries Workshop

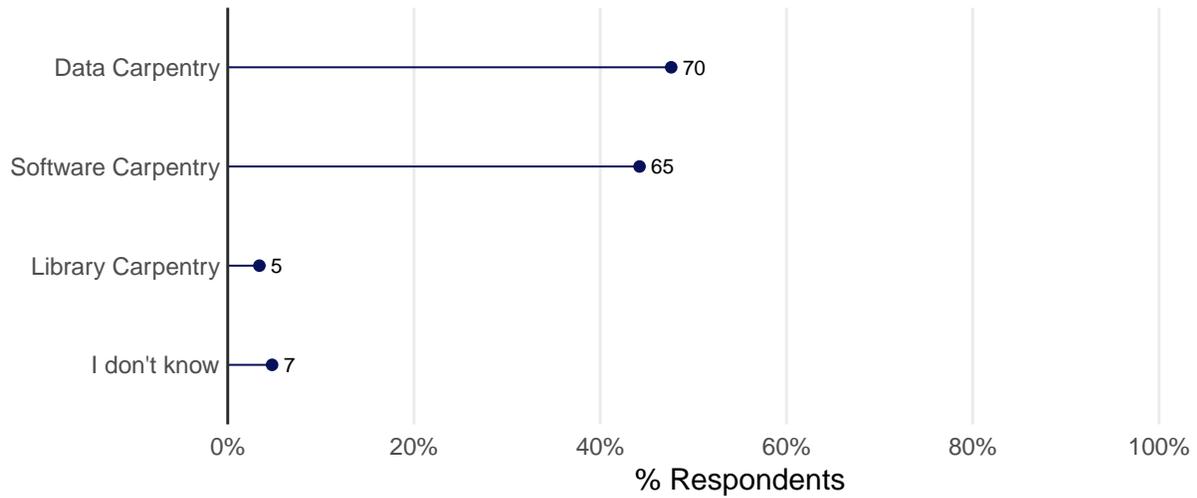
**How long ago did you last complete a Carpentries workshop?**



Number of answers reported on the graph

## Last Carpentries Workshop Attended

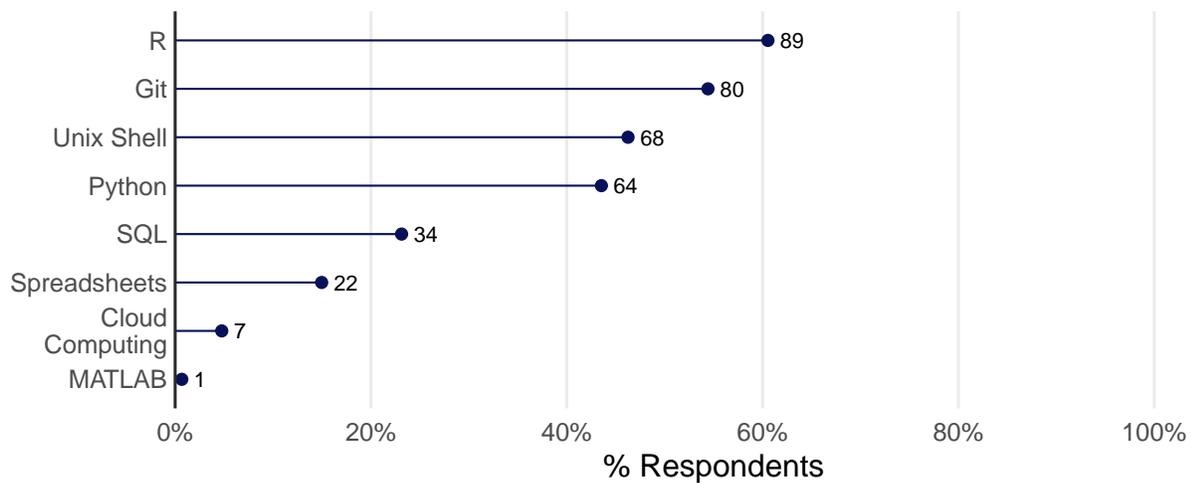
### Which Carpentries workshop did you last attend?



Number of answers reported on the graph

## Content Covered at Last Carpentries Workshop

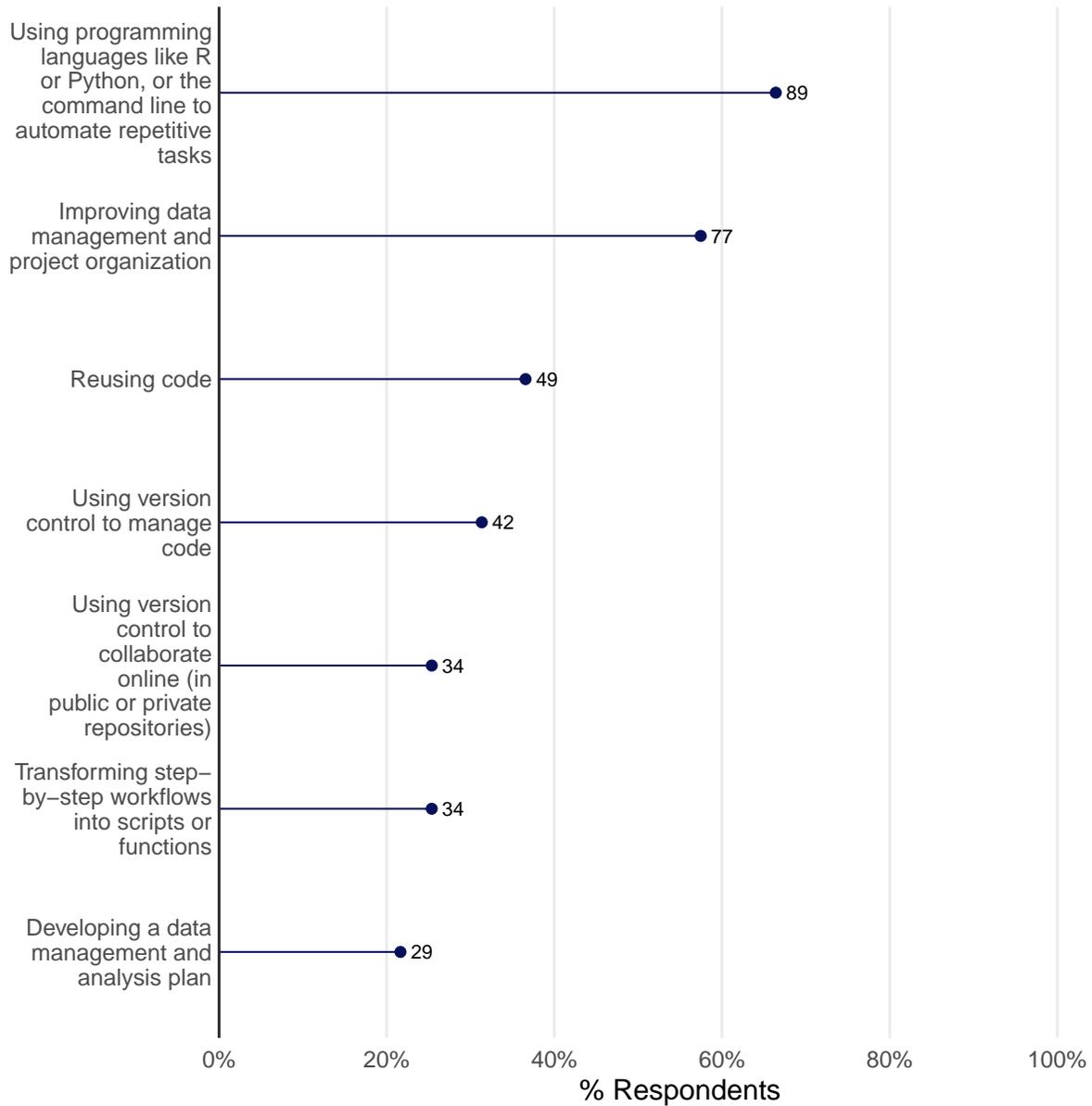
### What content was covered at the last Carpentries workshop you attended? Select all that apply. (n = 147)



Multiple answers allowed

## Behaviors Adopted

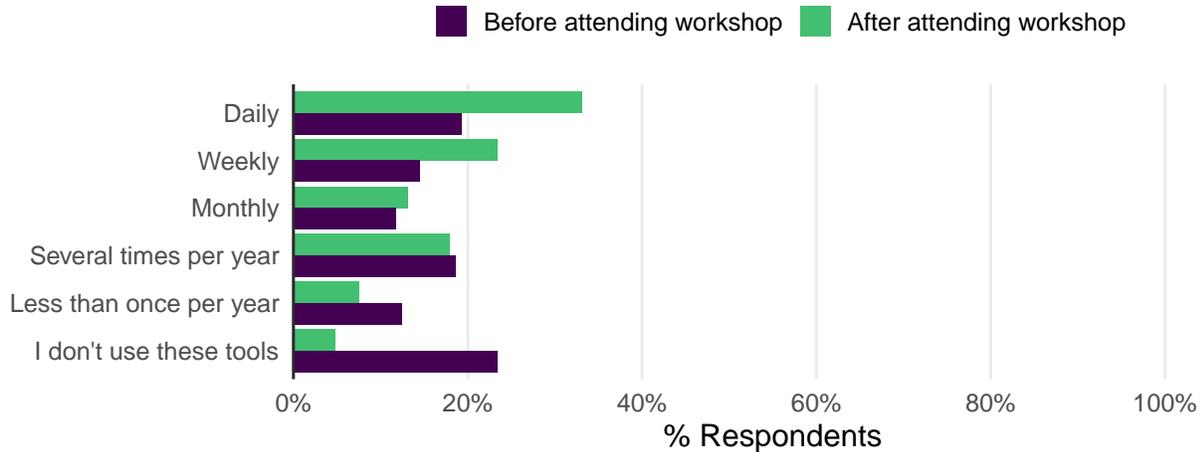
Which of the following behaviors have you adopted as a result of attending a Carpentries workshop? Check all that apply. (n = 134)



Multiple answers allowed

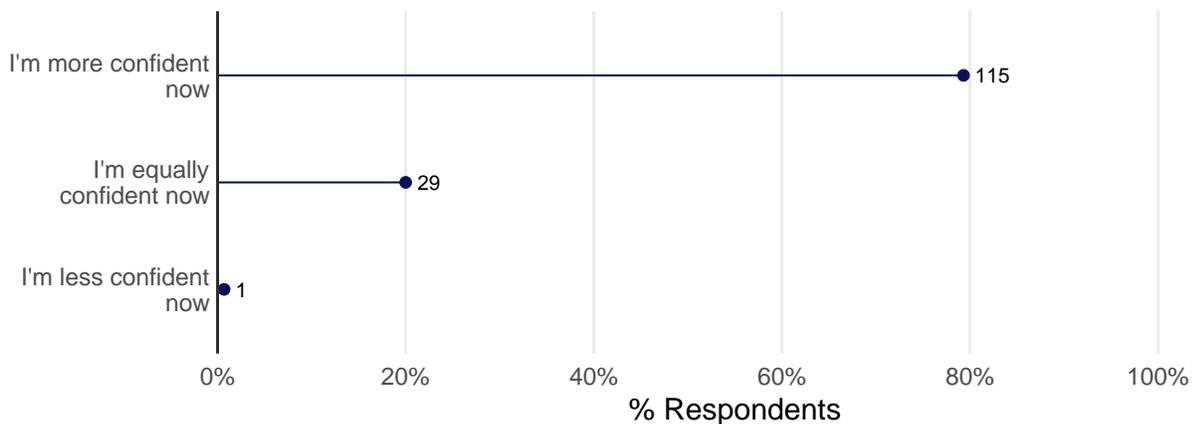
## Comparison of Programming Usage Pre- and Post-Carpentries Workshop

**How has the frequency of usage of programming languages, databases, version control and/or the shell, changed before and after the workshop?**



## Change in Confidence in Tools Covered at Workshop

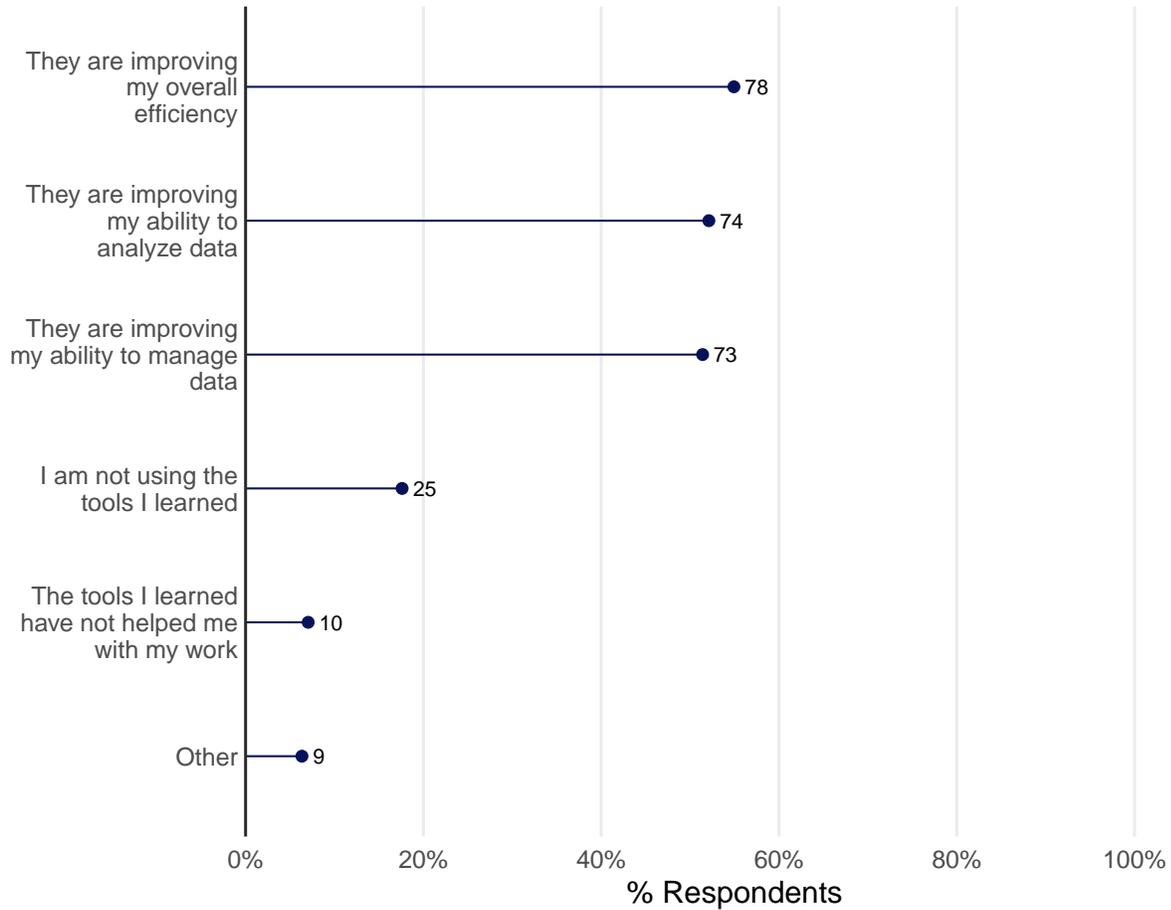
**How would you rate your change in confidence in the tools that were covered during your Carpentries workshop(s) compared to before the workshop?**



Number of answers reported on the graph

## How Tools Help Respondents

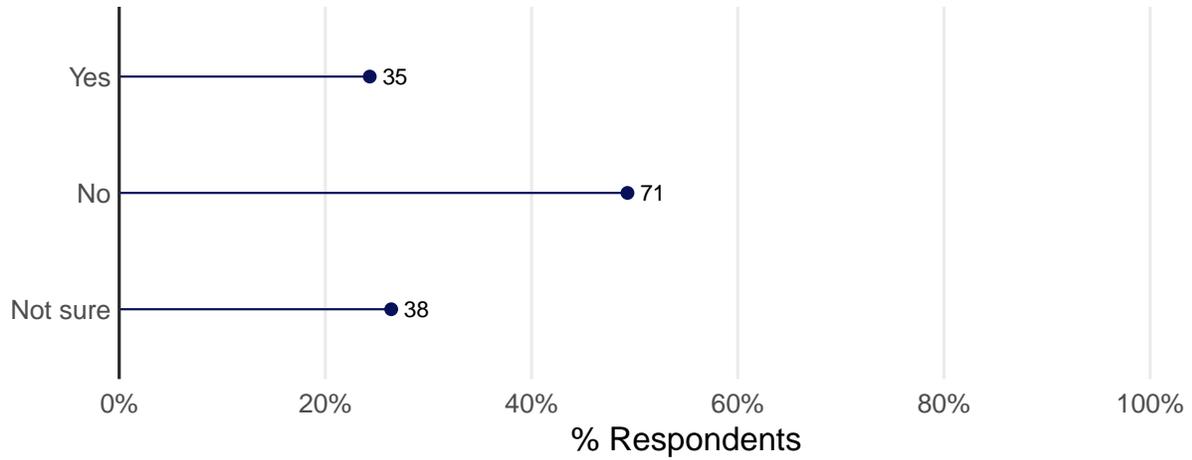
**If you are using the tools you learned in a Carpentries workshop, how are they helping you? Check all that apply. (n = 142)**



Multiple answers allowed

## Carpentries Workshop Contributing to Research

**Has attending a Carpentries workshop contributed to your writing of a research article, thesis, dissertation, or grant proposal?**

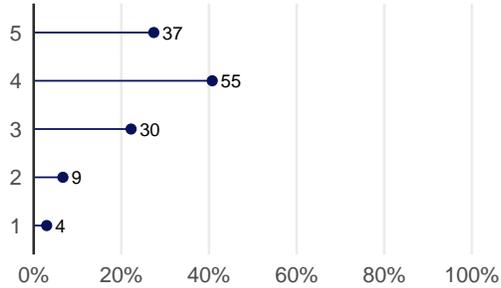


Number of answers reported on the graph

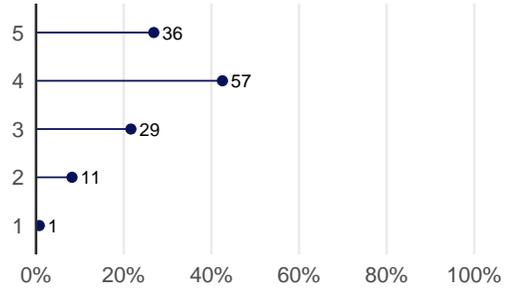
## Potential Impact on Respondents

(1: Strongly disagree, 3: Neutral, 5: Strongly agree)

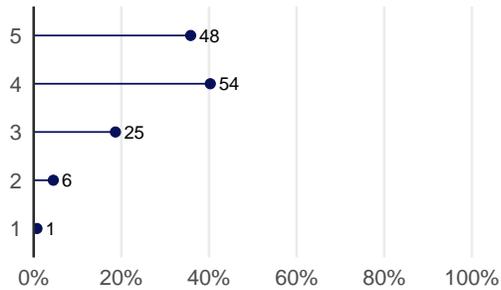
I have used skills I learned at the workshop to advance my career. (n = 135)



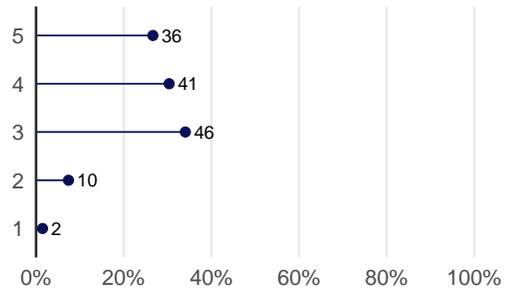
I have improved my coding practices as a result of completing the workshop. (n = 134)



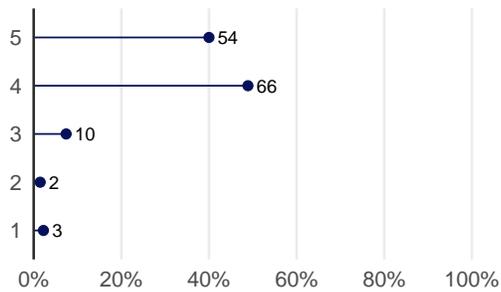
I have gained confidence in working with data as a result of completing the workshop. (n = 134)



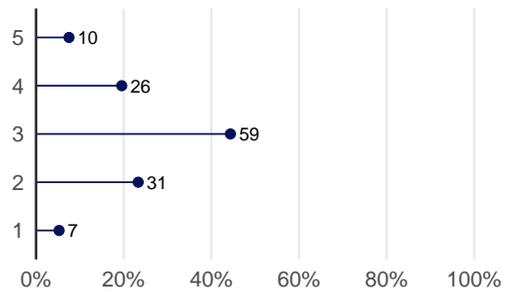
I have made my analyses more reproducible as a result of completing the workshop. (n = 135)



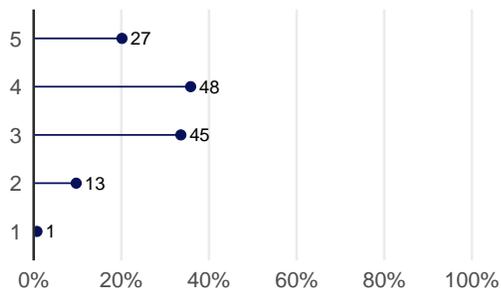
I have been motivated to seek more knowledge about the tools I learned at the workshop. (n = 135)



I have received professional recognition for my work as a result of using the tools I learned at the workshop. (n = 133)



My research productivity has improved as a result of completing the workshop. (n = 134)

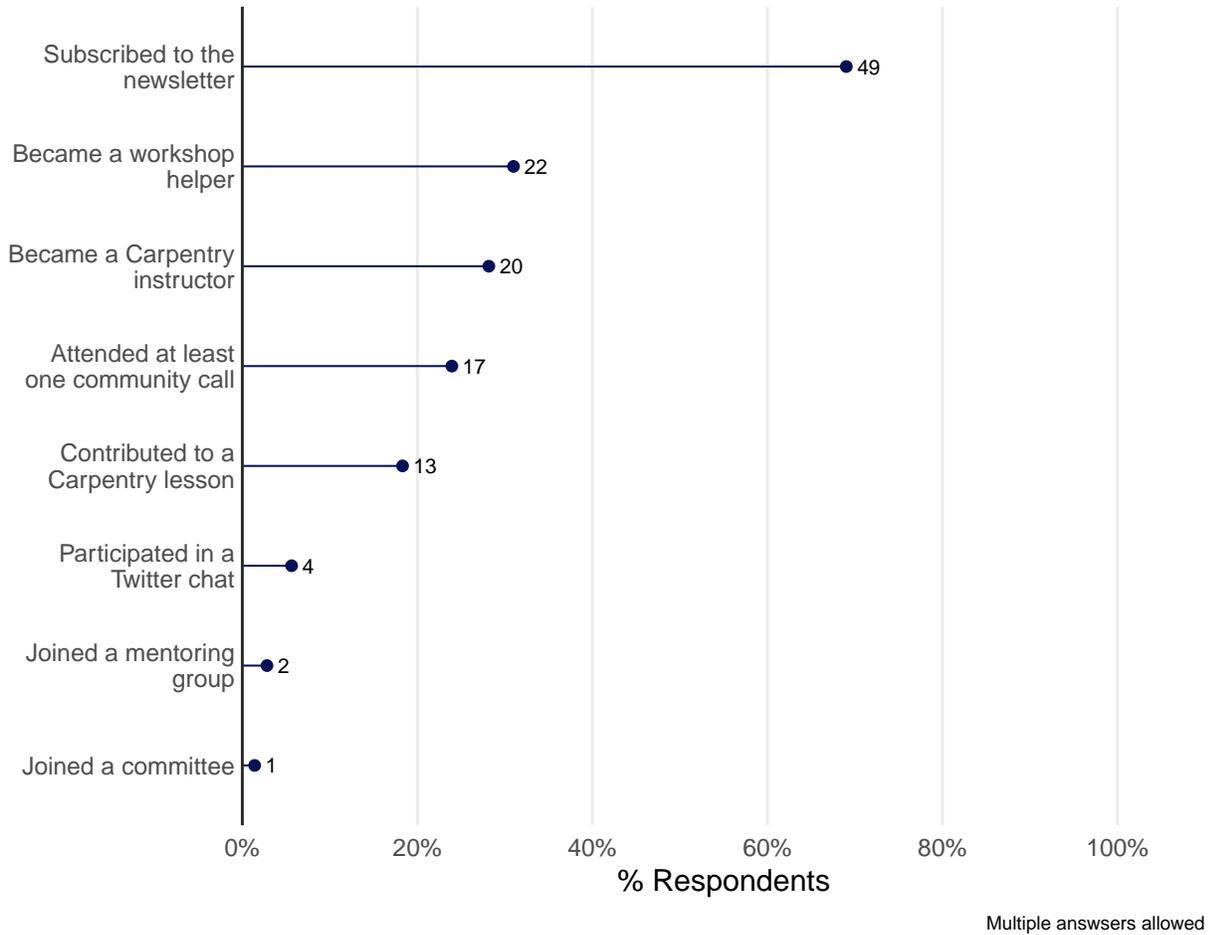


% Respondents

Number of answers reported on the graph

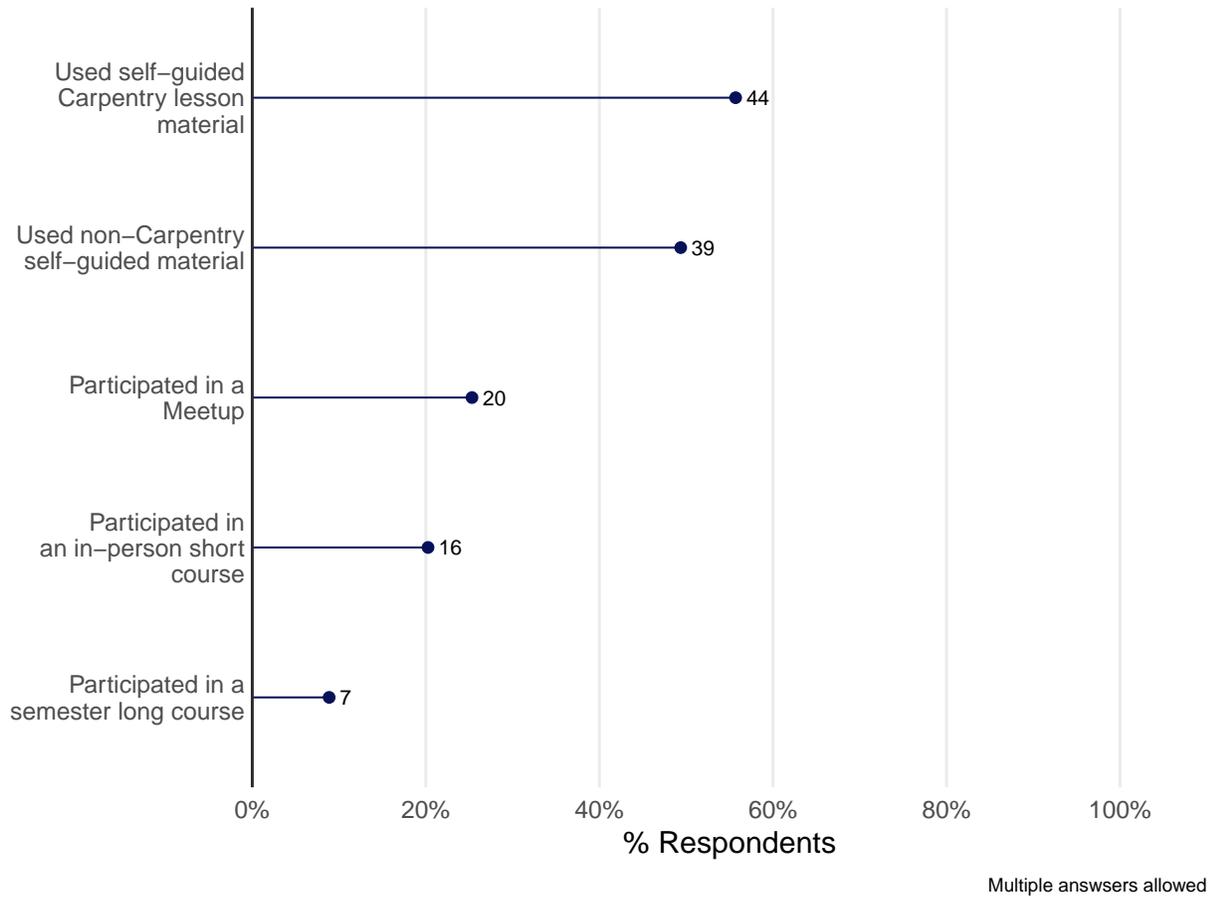
## Involvement in Carpentries Community Post-Workshop

**Please indicate your involvement in the Carpentries community since attending a Carpentries workshop. Check all that apply. (n = 71)**



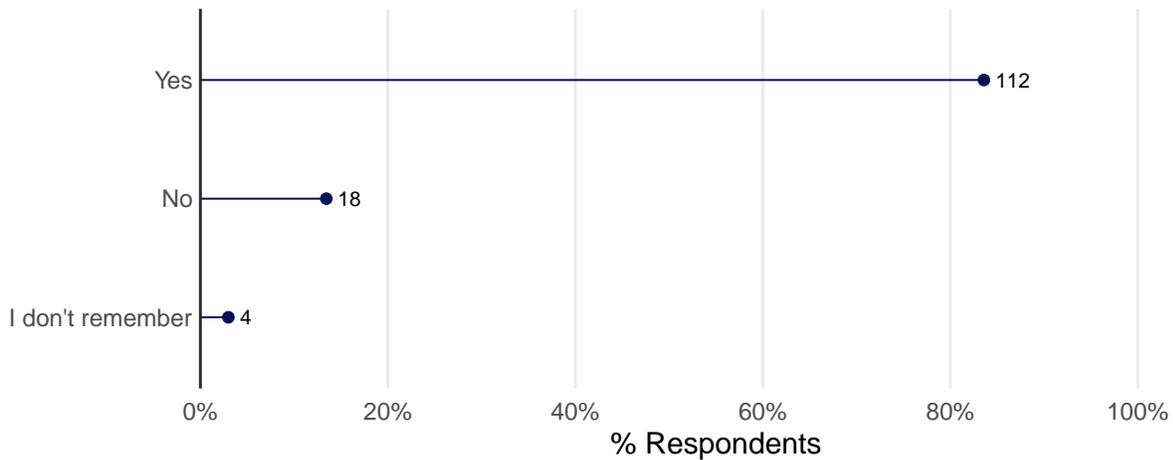
## Respondents Participating in Learning Activities

**Which of the following learning activities (for data management and analysis) have you participated in since attending a Carpentries workshop? Check all that apply. (n = 79)**



## Respondents Who Recommended a Carpentries Workshop

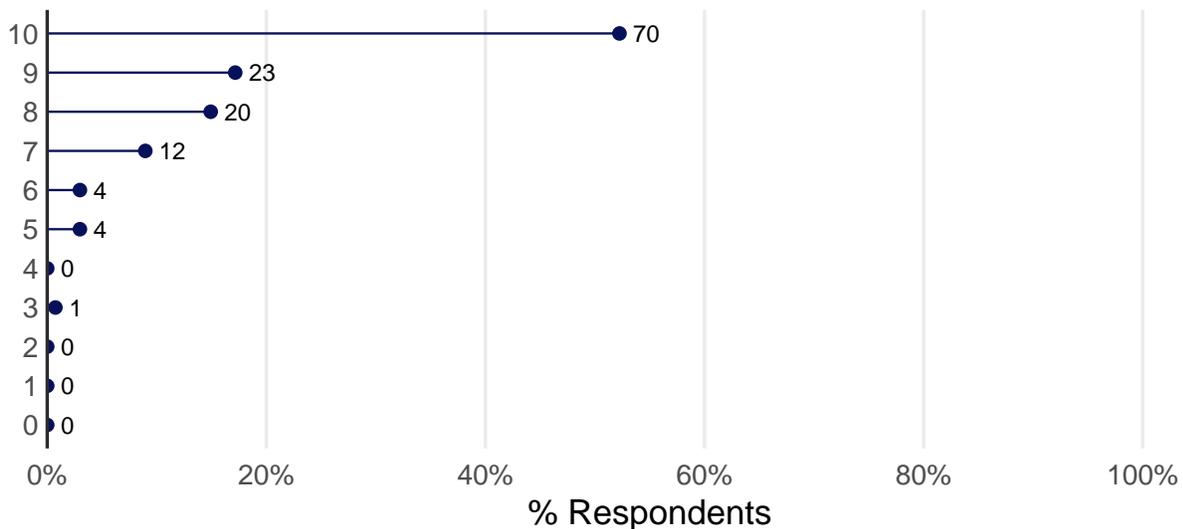
**Have you recommended a Carpentries workshop to a friend or colleague?**



Number of answers reported on the graph

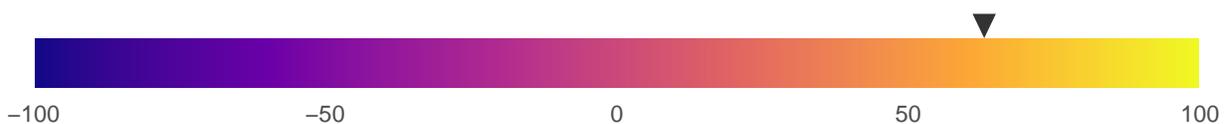
## Recommendation and Net Promoter Scores

**How likely are you to recommend a Carpentries workshop to a friend or colleague?**



Number of answers reported on the graph

## Net Promoter Score

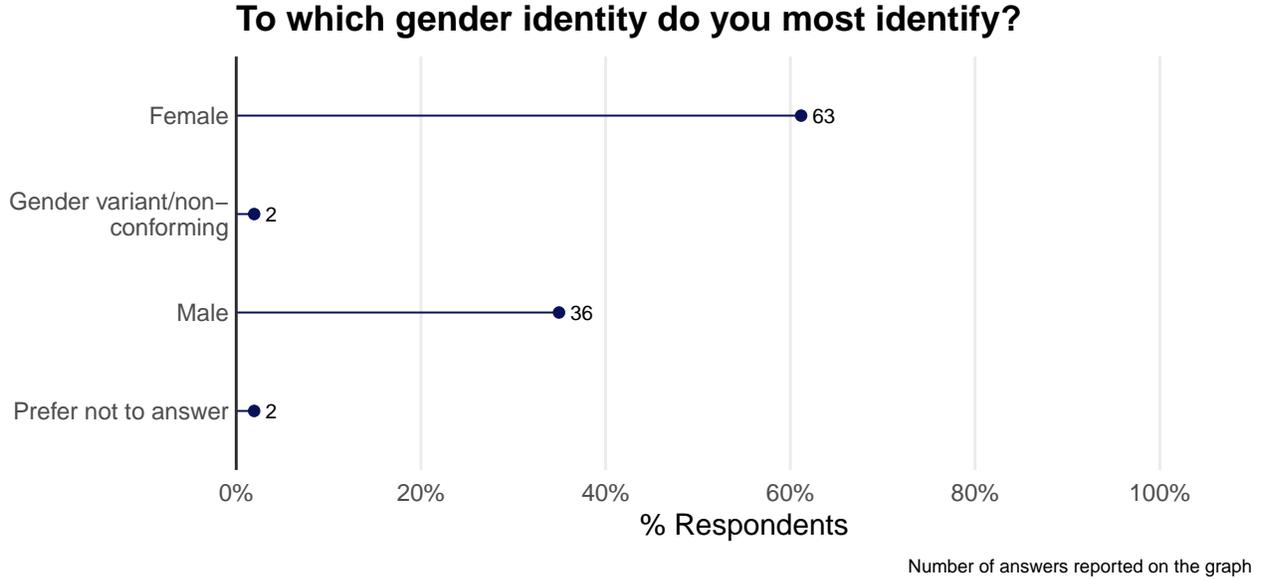


The Net Promoter Score (NPS) for our workshops according to the long-term survey is 63. The NPS varies between -100 and +100. It is calculated by subtracting the percentage of respondents who are considered “Promoters” (rating of 9 or 10) and the percentage of respondents who are considered “Detractors” (rating

equal or below 6). A positive NPS is deemed good, a NPS above 50 is deemed excellent, and an NPS above 70 is exceptional.

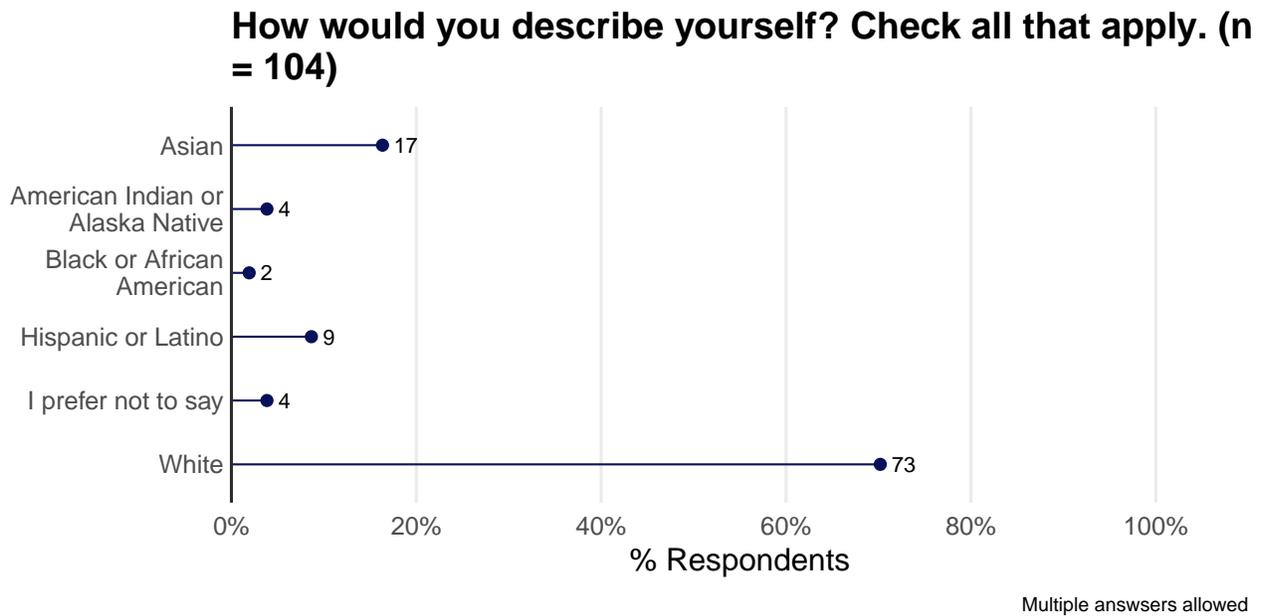
### Respondents' Gender Identity

Note: Gender identity responses apply to U.S. survey respondents only.



### Respondents' Racial/Ethnic Identity

Note: Racial/ethnic identity responses apply to U.S. survey respondents only.



Label on Plot	Description in Survey
I prefer not to say	I prefer not to say
White	White (A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.)
Hispanic or Latino	Hispanic or Latino(a) (A person of Spanish-speaking origin or ancestry and/or Latin American origin or ancestry – includes Portuguese and Brazilians.)
Black or African American	Black or African American (A person having origins in any of the Black racial groups of Africa – includes Caribbean Islanders and other of African origin.)
Asian	Asian (A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.)
American Indian or Alaska Native	American Indian or Alaska Native (A person having origins in any of the original peoples of North and South America (including Central America), and who maintains a tribal affiliation or community attachment.)