## Analysis of The Carpentries Long-Term Surveys

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#### Contents

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

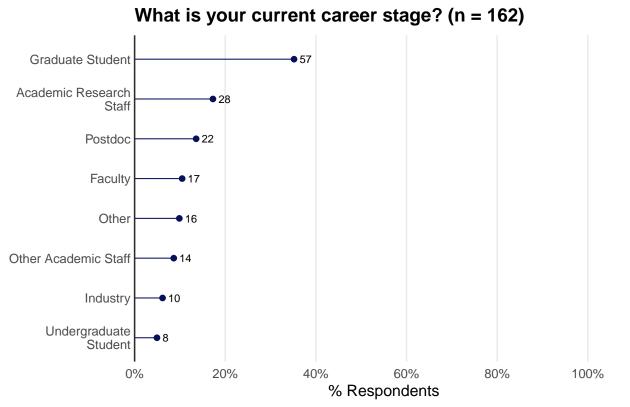
The results included in this report only cover the data collected in 2019 (between November 1st, 2019 and January 2nd, 2020). This report includes the analysis of 176 responses but most questions are optional and specific questions have less answers.

#### **Respondents Career Stage**

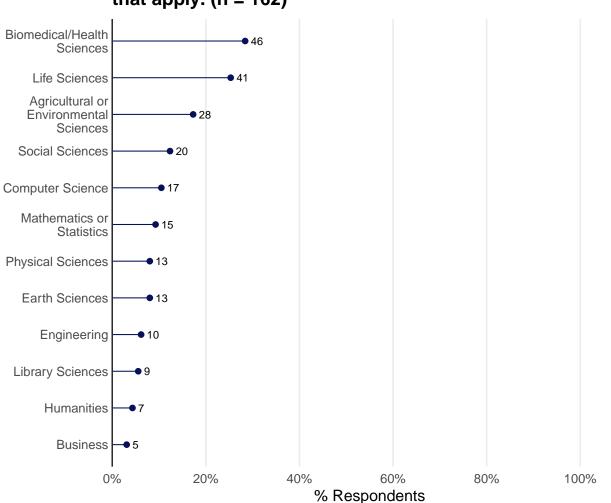
The majority of long-term survey respondents are graduate students. "Other academic staff" includes Librarians, Research Software Engineers, IT Staff, and Government Research Staff.

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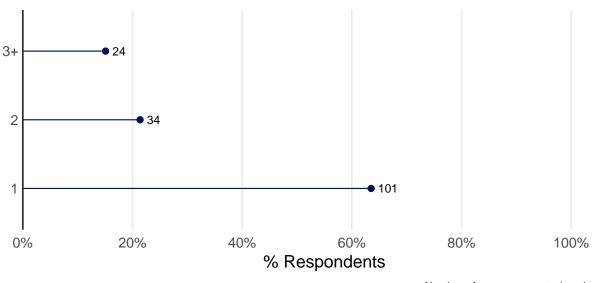




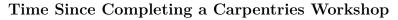
What is your field of research, work, or study? Check all that apply. (n = 162)

Number of Carpentries Workshops Completed

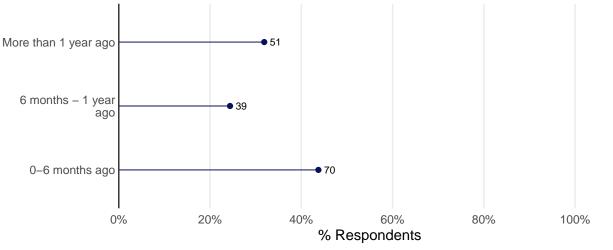


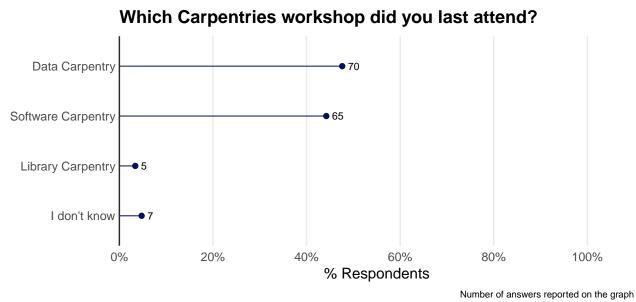


Number of answers reported on the graph



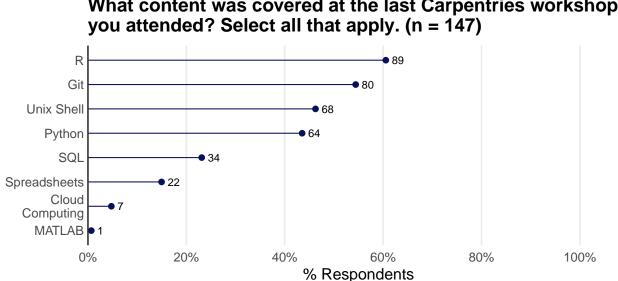






#### Last Carpentries Workshop Attended

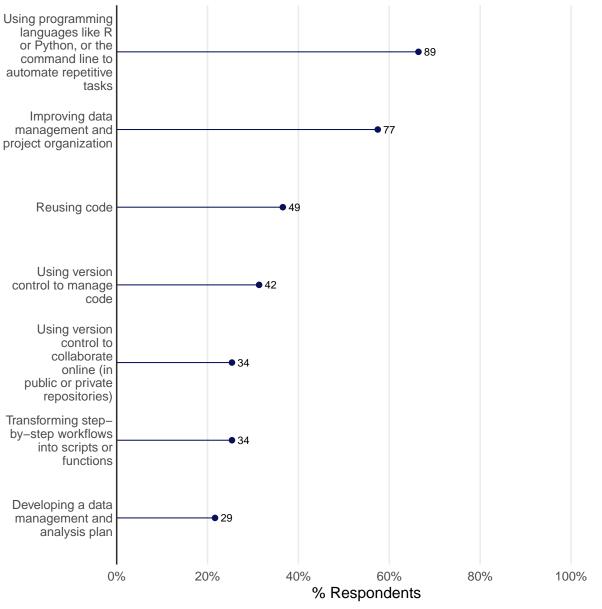




What content was covered at the last Carpentries workshop

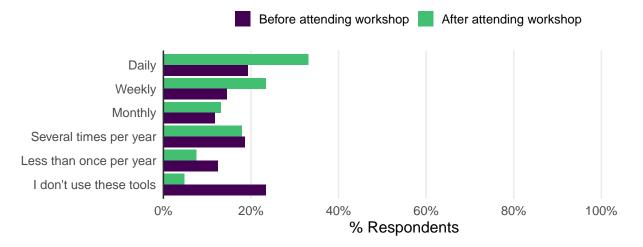
#### **Behaviors Adopted**



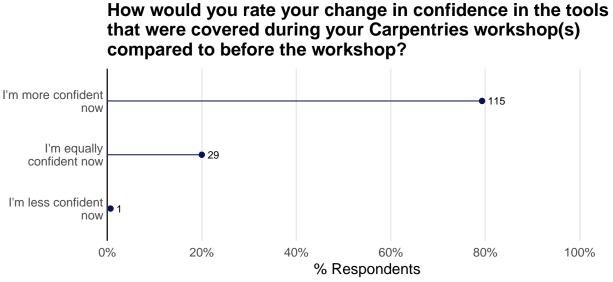


#### Comparison of Programming Usage Pre- and Post-Carpentries Workshop

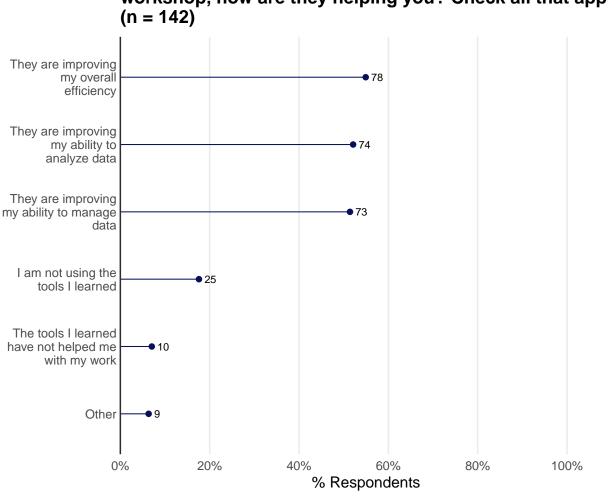
### How has the frequency of usage of programming languages, databases, version control and/or the shell, changed before and after the workshop?



#### Change in Confidence in Tools Covered at Workshop



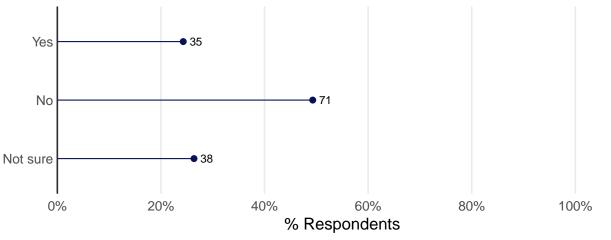
#### How Tools Help Respondents



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

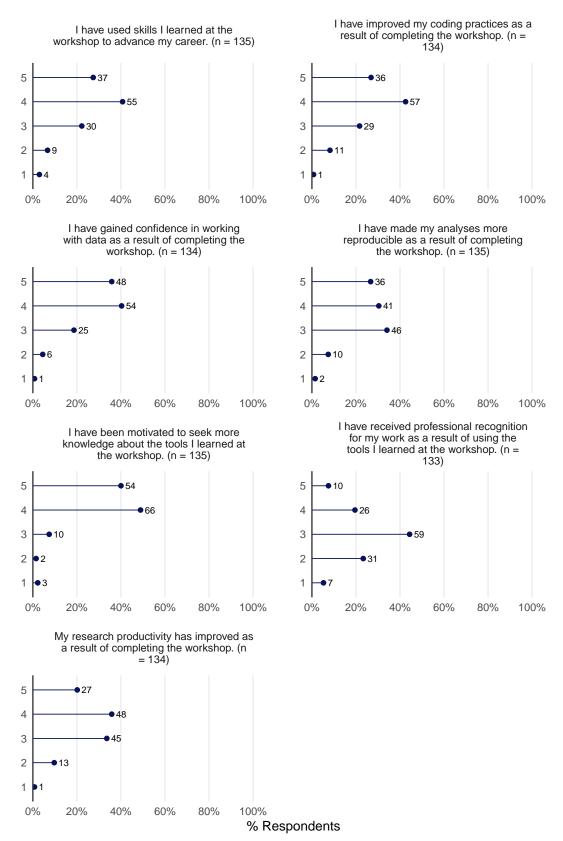
Carpentries Workshop Contributing to Research

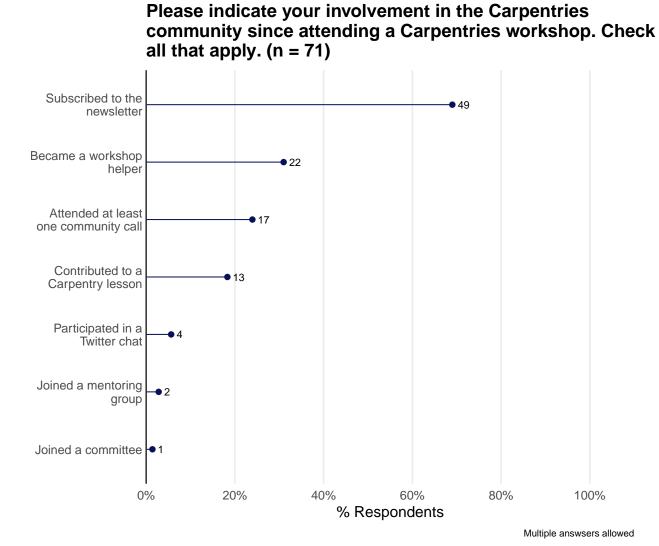
Has attending a Carpentries workshop contributed to your writing of a research article, thesis, dissertation, or grant proposal?



#### **Potential Impact on Respondents**

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



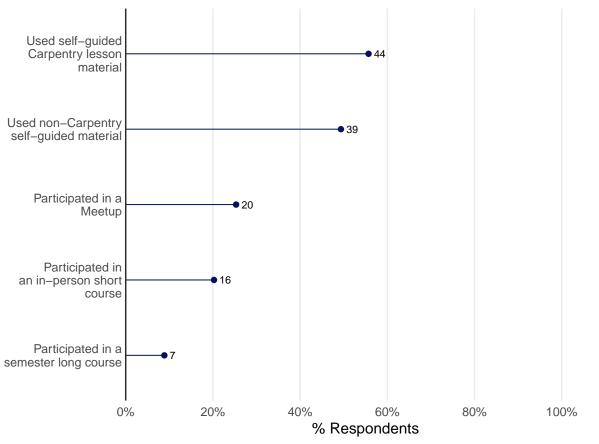


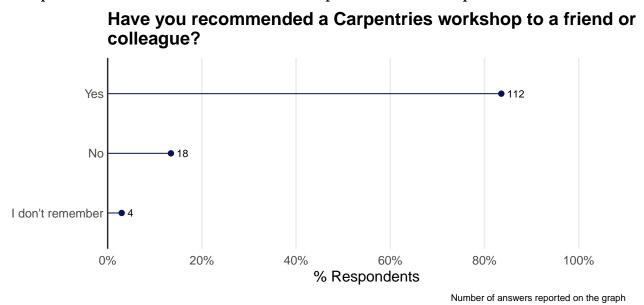
#### Involvement in Carpentries Community Post-Workshop

11

#### **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)

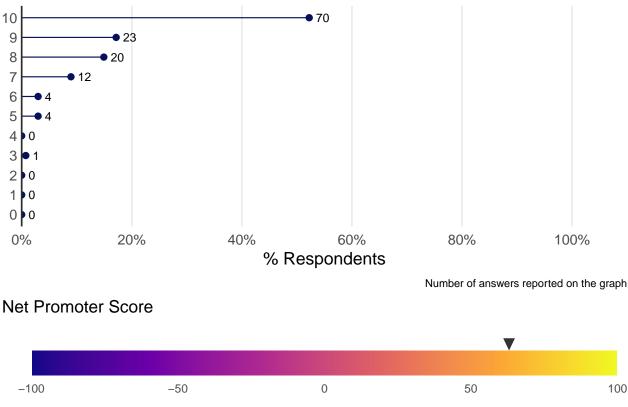




**Respondents Who Recommended a Carpentries Workshop** 

Recommendation and Net Promoter Scores

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

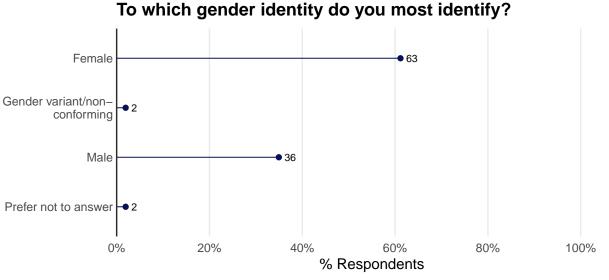


The Net Promoter Score (NPS) for our workshops according to the long-term survey is 63. The NPS varies between -100 and +100. It is calculated by substracting the percentage of respondents who are considered "Promoters" (rating of 9 or 10) and the percentage of respondents who are considered "Detractors"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

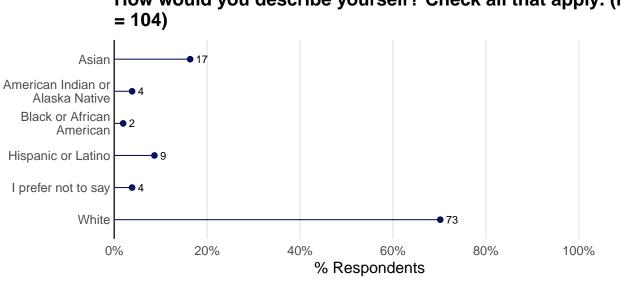
Note: Gender identity responses apply to U.S. survey respondents only.



#### Number of answers reported on the graph

#### **Respondents' Racial/Ethnic Identity**

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



# How would you describe yourself? Check all that apply. (n

Label on Plot	Description in Survey
I prefer not to say White	I prefer not to say 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.)