R Bootcamp: Pre-Class Survey

DEOHS Bootcamp 2016

Sept. 16, 2016

Contents

1 Initial Setup

- Install and load R packages as needed.
- Disable the code display. The embedded R code will not be echoed in the report.
- Create the `data` folder. It will be created if it does not already exist.
- User-defined functions will be used to help parse the text of survey results.

2 Data Import and Cleanup

Data source: DEOHS Bootcamp - R, UW Catalyst (CSV file)

2.1 Data Import

The steps to read in the data files(s) are as follows:

- Check for existence of data file(s). Abort if they are not found.
- Read the data file(s), count respondents, and set column names.
- Read the questions from a text file.

The survey had a total of 11 respondents.

2.2 Data Clean-up

The steps to prepare the data for analysis are as follows:

- Replace missing values ('999', 'N/A', 'n/a', 'not applicable', and '') with NA.
- Calculate the answer rate (AR) for all questions.
- Remove the 'blank' (empty) column included in the original data file.

3 Additional Processing

3.1 Yes/No Questions

The results for the Yes/No questions are further processed as follows:

- Count the frequency of answers for each of the Yes/No questions.
- Link the question text to the responses by question ID.
- Clean up row and column names.
- Calculate percentages of response counts per number of responses.
- Format question column for better display.

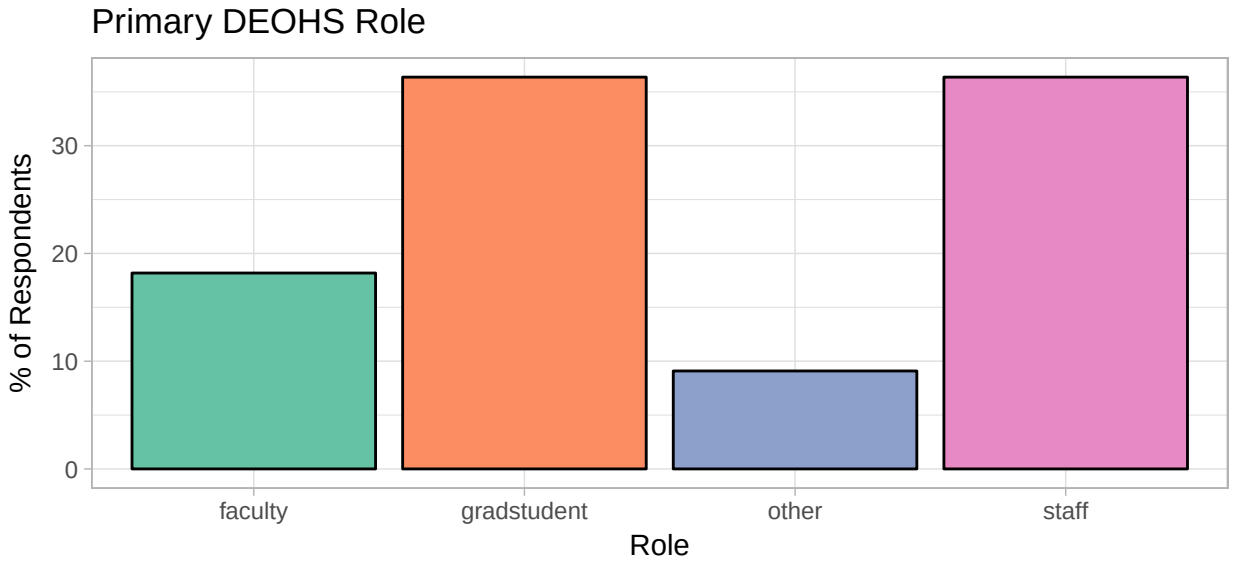
4 Results

4.1 Primary DEOHS Role

Question: *First Name*

Table 1: Primary DEOHS role frequency counts.

Role	Count	% of Counts	% of Respondents
gradstudent	4	36	36
staff	4	36	36
faculty	2	18	18
other	1	9	9

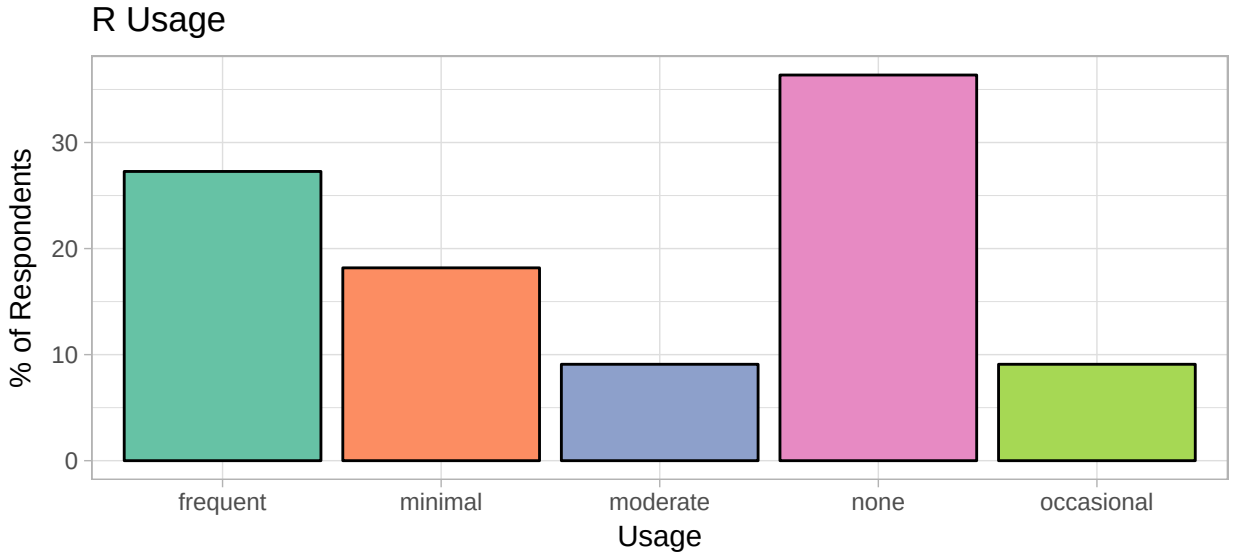


4.2 R Usage

Question: *Email Address*

Table 2: R usage frequency counts.

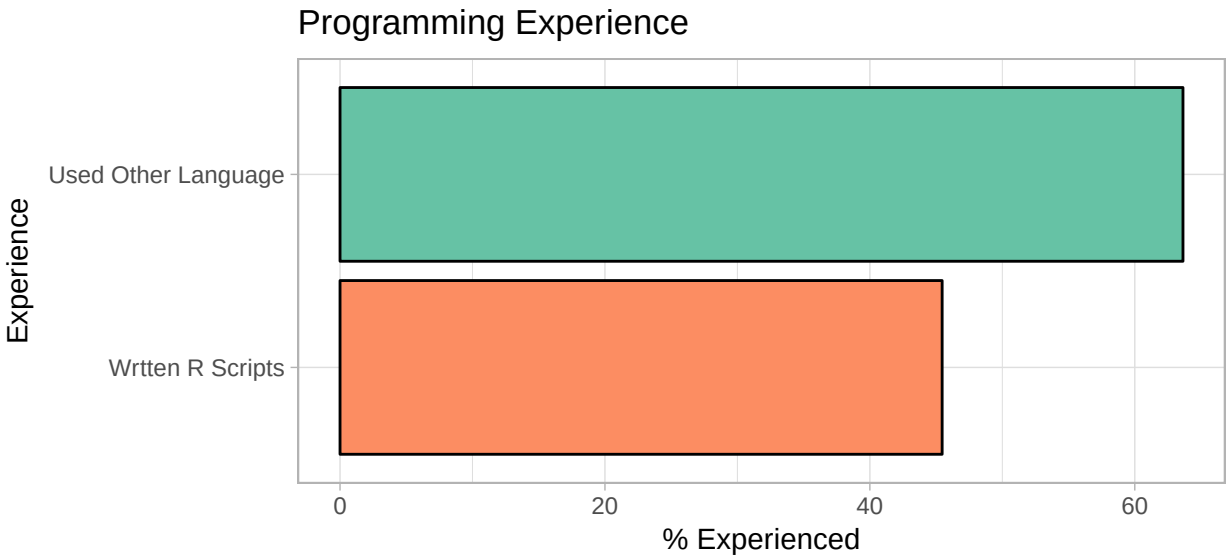
Usage	Count	% of Counts	% of Respondents
none	4	36	36
frequent	3	27	27
minimal	2	18	18
occasional	1	9	9
moderate	1	9	9



4.3 Programming Experience

Table 3: R scripting and other programming languages

Question	Yes	No	Sum	% AR	% Yes	% No
Participant ID	5	6	11	100	45	55
Start Date	7	4	11	100	64	36



4.4 Participant Goals

Question: *Finish Date*

These are all of the responses for this question:

Tab

Response
Become more comfortable with R
learn how to use the software and why it would be useful
better organized in using R, more efficient
Basic R skills
Hopefully gain some useful knowledge so I can better help others.
using R
Learn some tips and tricks as well as packages to use R more efficiently
Introduction to programming in R and data management
a story
More experience with a great open-source tool. Ideally, a listserv and regular meetings would be good too. Very grateful for
Better understanding and deeper appreciation for all the awesome work Brian has done