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Taking notes? Add them here!

<http://pad.software-carpentry.org/equityjupytercon>

Learning to Code isn't enough.

Training as a pathway to ~~improve diversity.~~

achieve equity.

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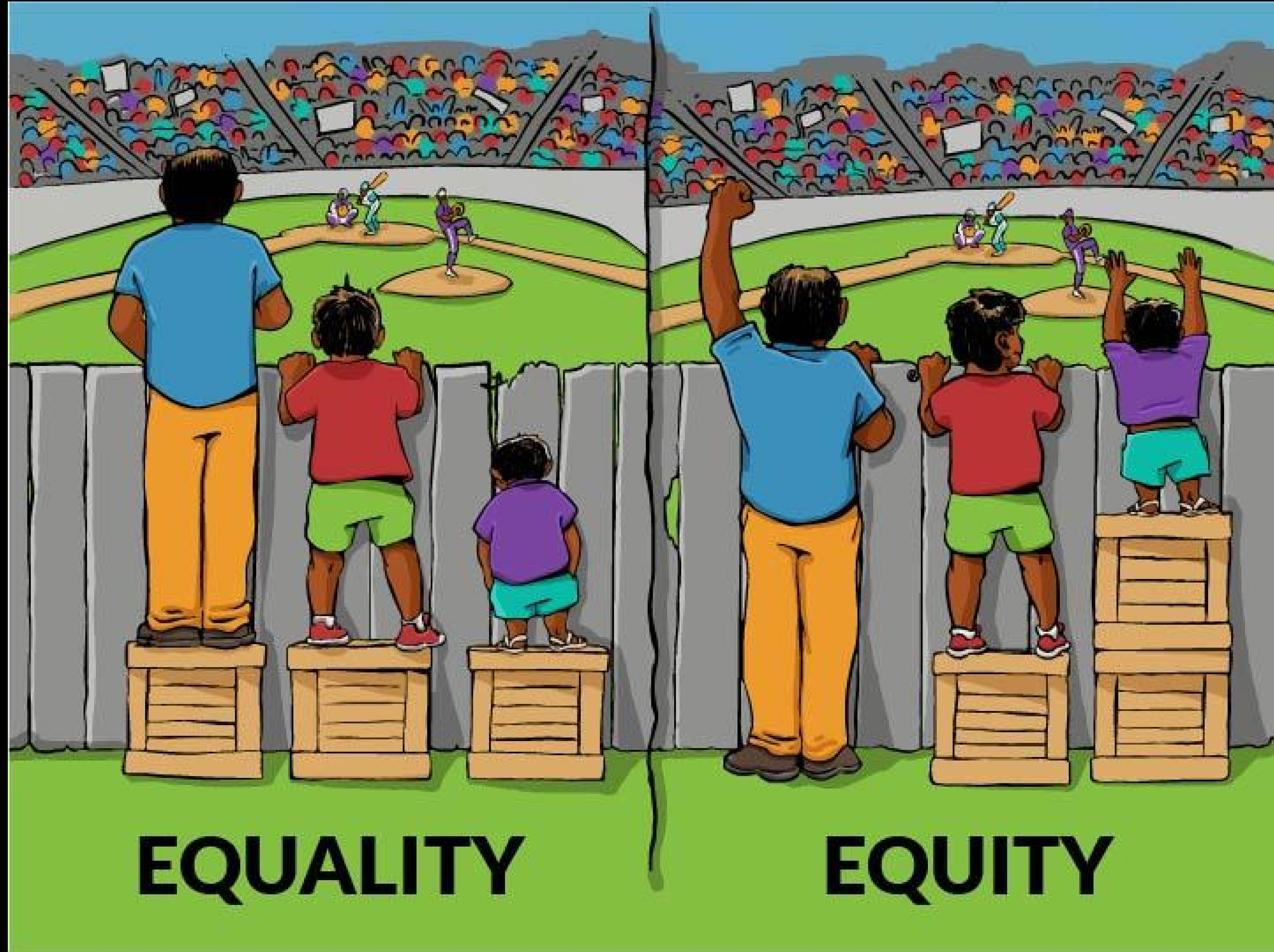
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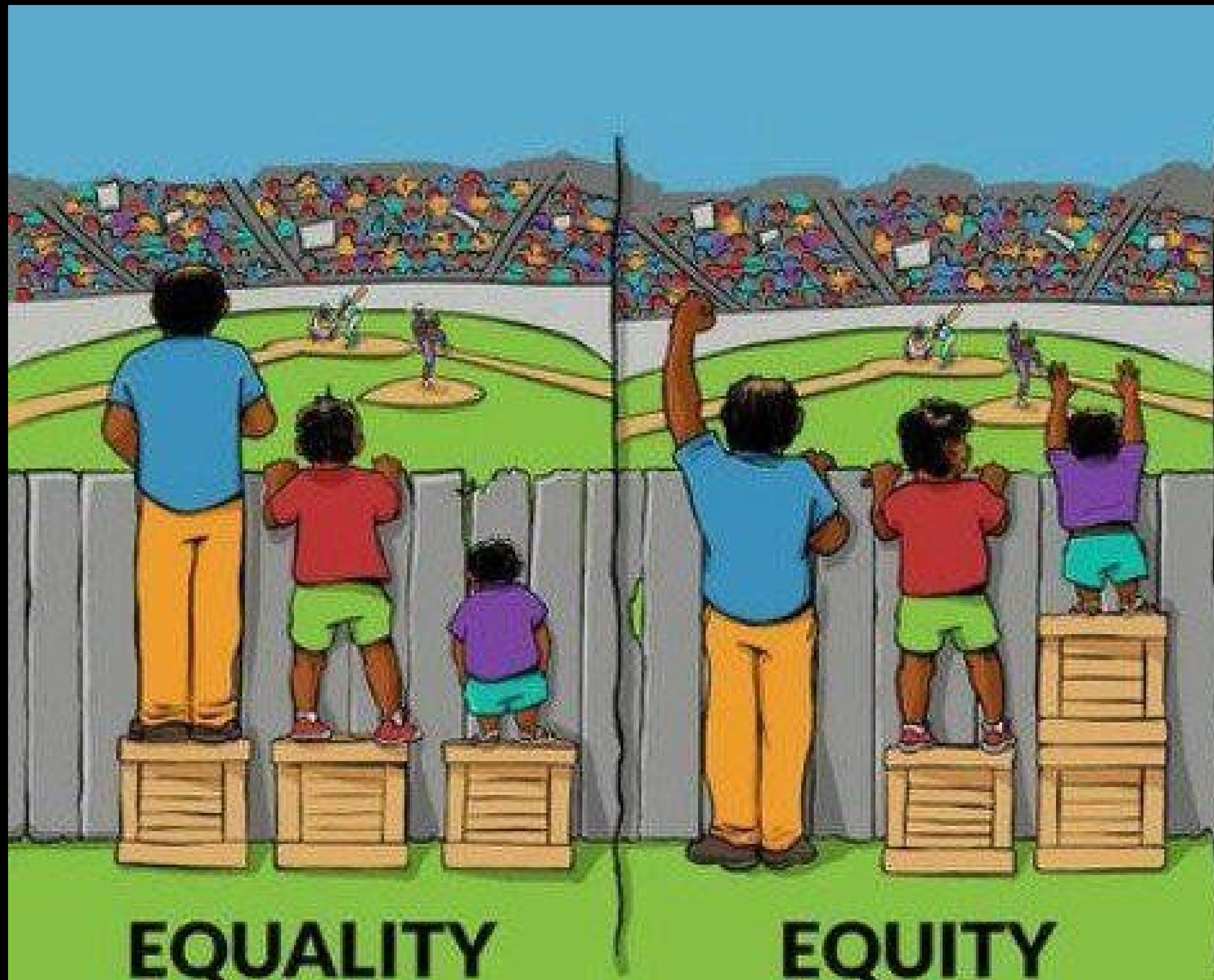


Cartoon by Craig Froehle



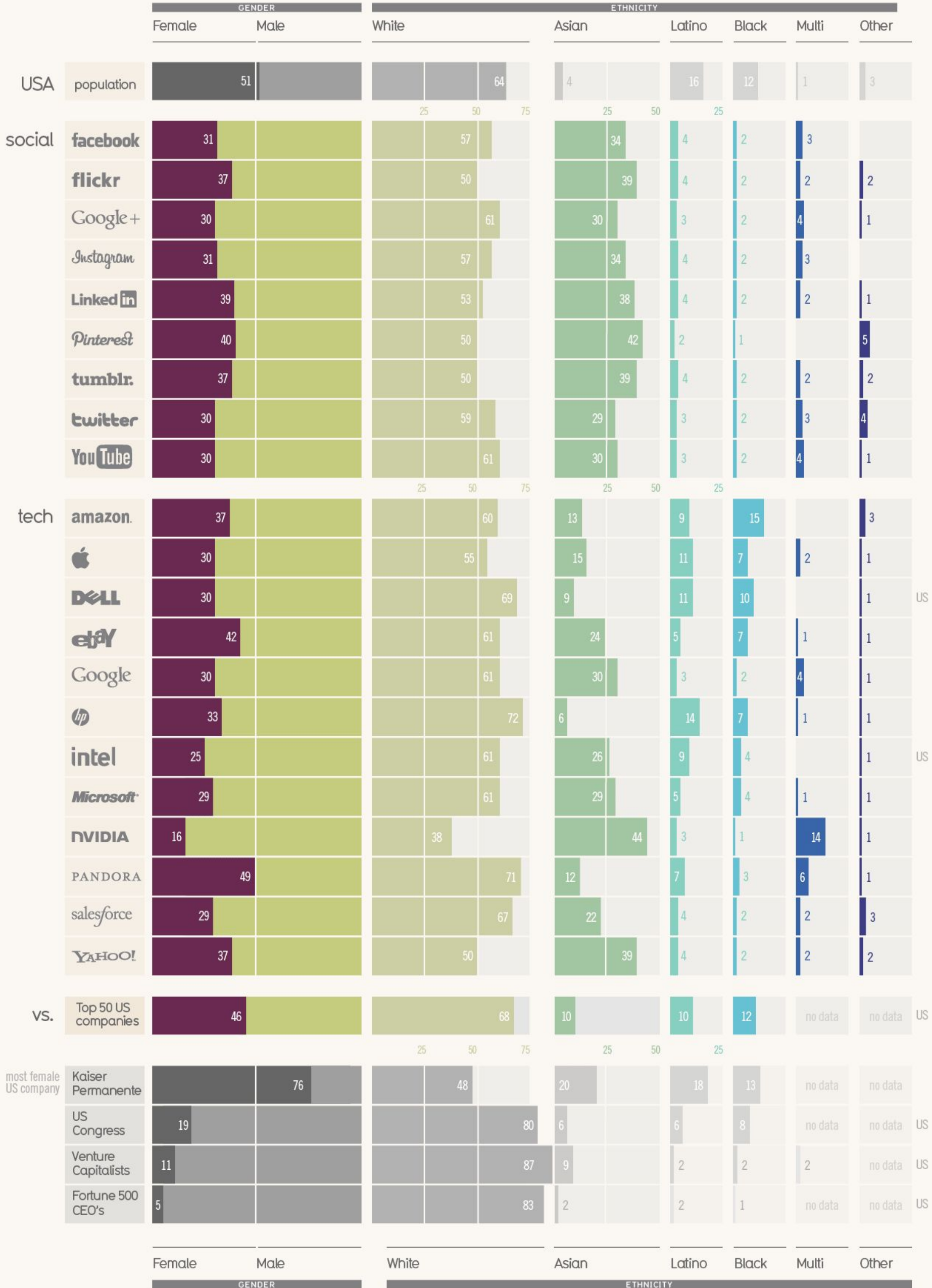
Cartoon by Angus Macguire, adapted from Craig Froehle





Diversity in Tech

Employee breakdown of key technology companies

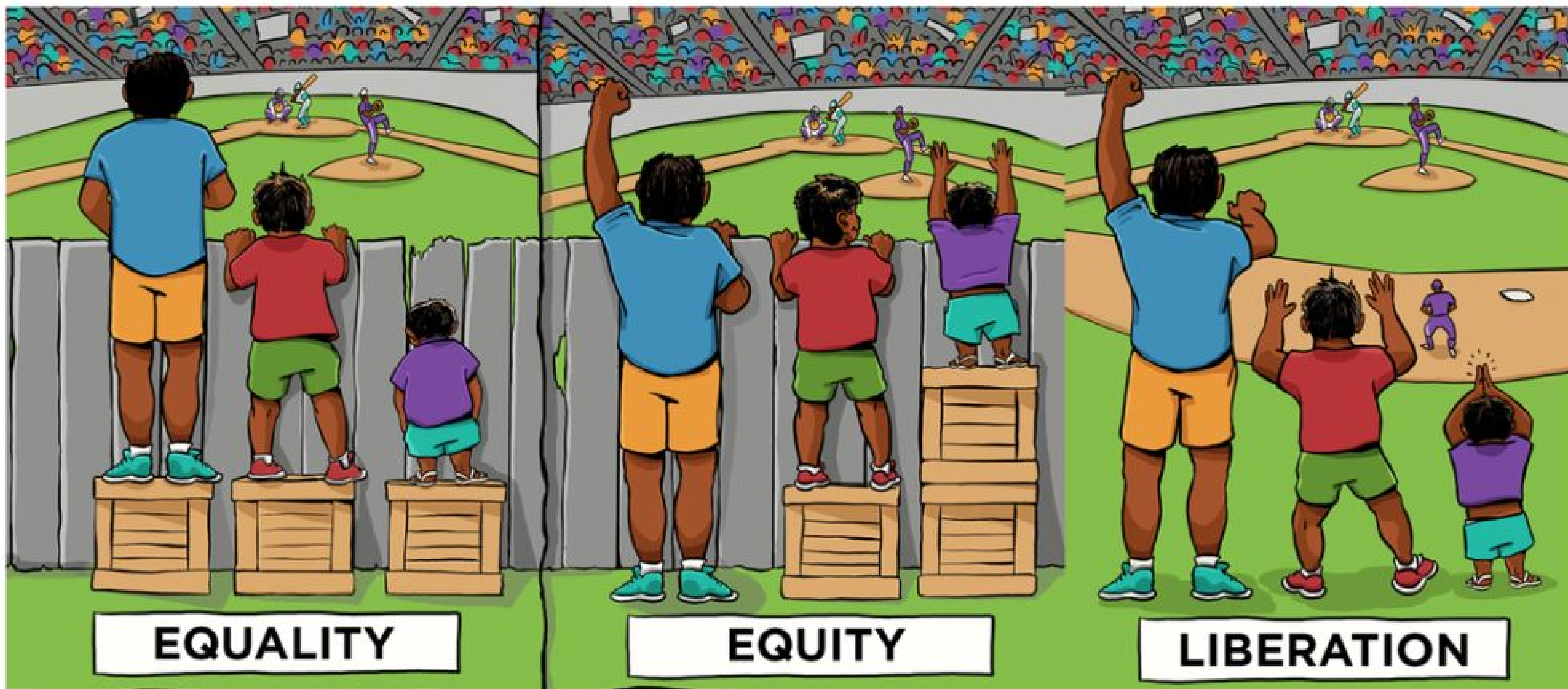


Design & Concept: David McCandless // v1.1 // Dec 2014
Research: Miriam Quick // Additional Design: Fabio Bergamaschi

InformationIsBeautiful.net

sources: company & press reports
global figures unless otherwise stated, data: bit.ly/KIB_DiversityTech

part of project: Knowledge is Beautiful



How can we drive usage of Jupyter notebooks in broader communities?



Training eliminates barriers!



Software Carpentry

Teaches basic lab skills for scientific computing so that researchers can do more in less time and with less pain.

Co-Founded by Greg Wilson in 1998.



Data Carpentry

Teaches basic concepts, skills, and tools for working more effectively with data. Workshops are designed for people with little to no prior computational experience.

Founded as a sibling organization of Software Carpentry in 2014. Currently undergoing a merger.





Reproducible Research using Jupyter Notebooks: Workshop Overview

☀ Prerequisites

The course is aimed at graduate students, postdocs, and other researchers who perform computational analysis or work. The material uses basic Python for teaching and illustrating the key concepts. Advanced knowledge of Python is not needed, but some familiarity with Python will aid in absorbing the material.

Workshop Overview

This document provides basic information about Reproducible Science with Jupyter Notebook workshops for instructors:

- general outline of a Reproducible Science workshop;
- location of materials;
- learning goals for each module;
- instructor skills needed for each module;
- [examples of previous workshops](#).

All of our material is on GitHub with a [CC0](#) copyright waiver: [Reproducible Science Curriculum on GitHub](#)

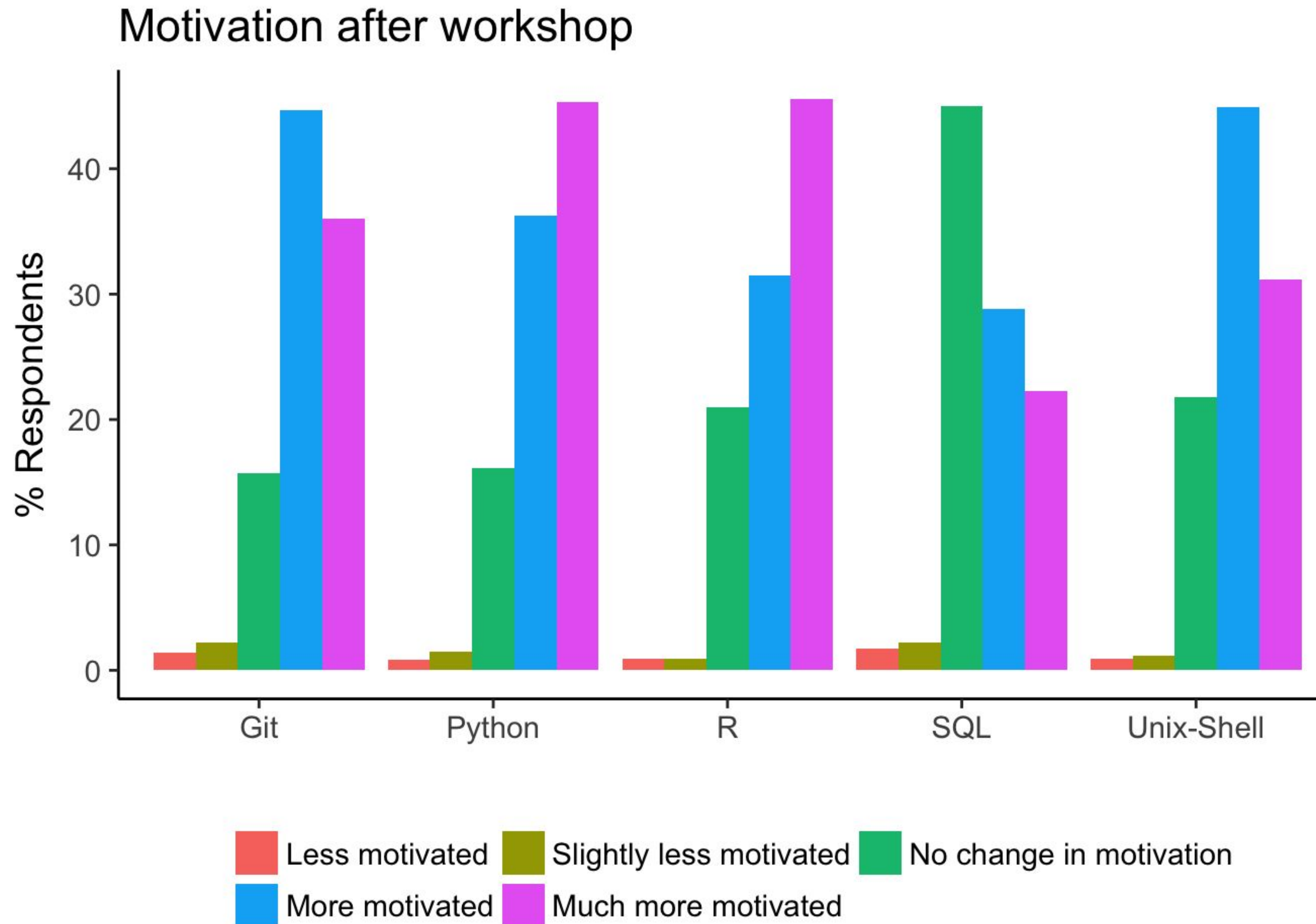
Learning Objectives

The following are the overarching learning objectives for the curriculum.

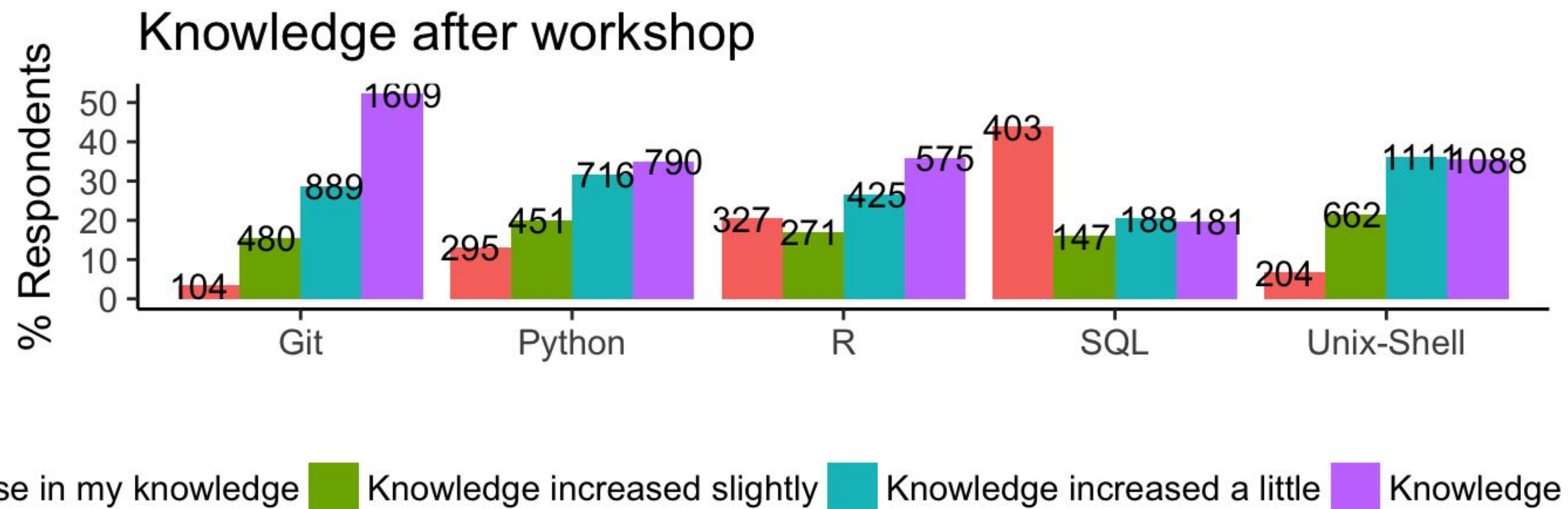
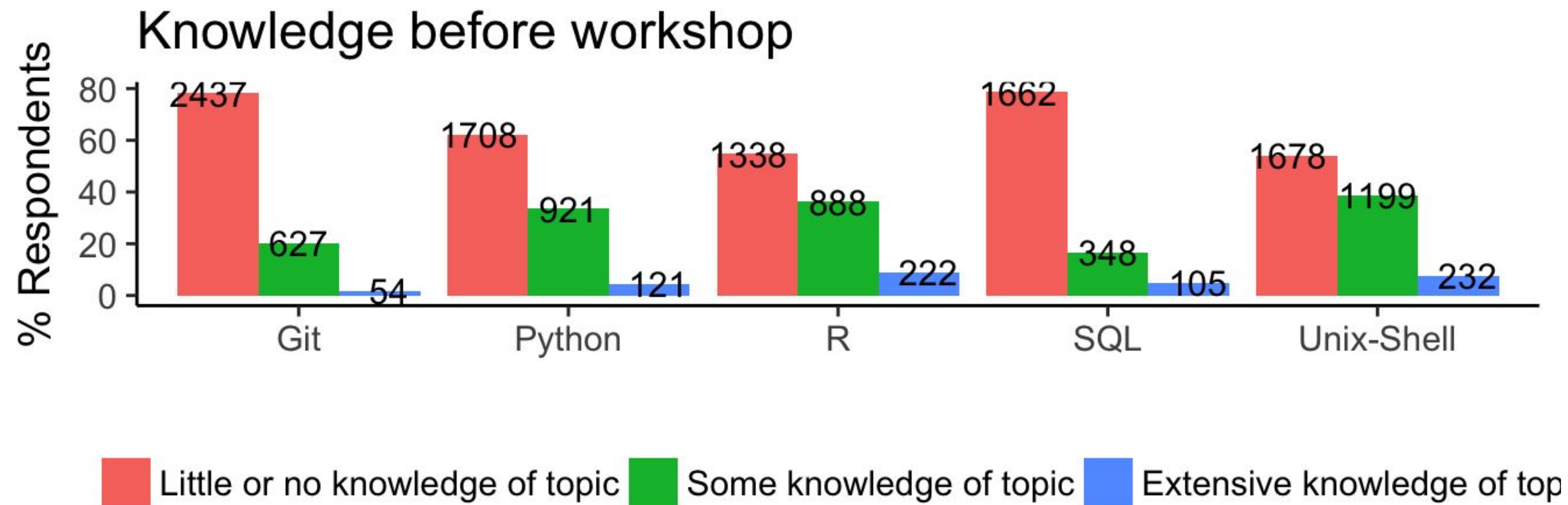
- Understand the value of reproducible research practices for more effective research for current and future you.
- Understand the value of reproducible research practices for advancing research as a whole.
- Understand what is meant by making your research more reproducible.
- Know practices to make your research more reproducible, in particular by using Jupyter Notebooks, and have the skills to do so.
- Have the confidence and foundation to continue improving reproducibility of your research.
- Understand what's possible and they still can learn to be more effective with reproducible research.

2-Day Workshops Impact Novices, Competent Practitioners, and Experts!

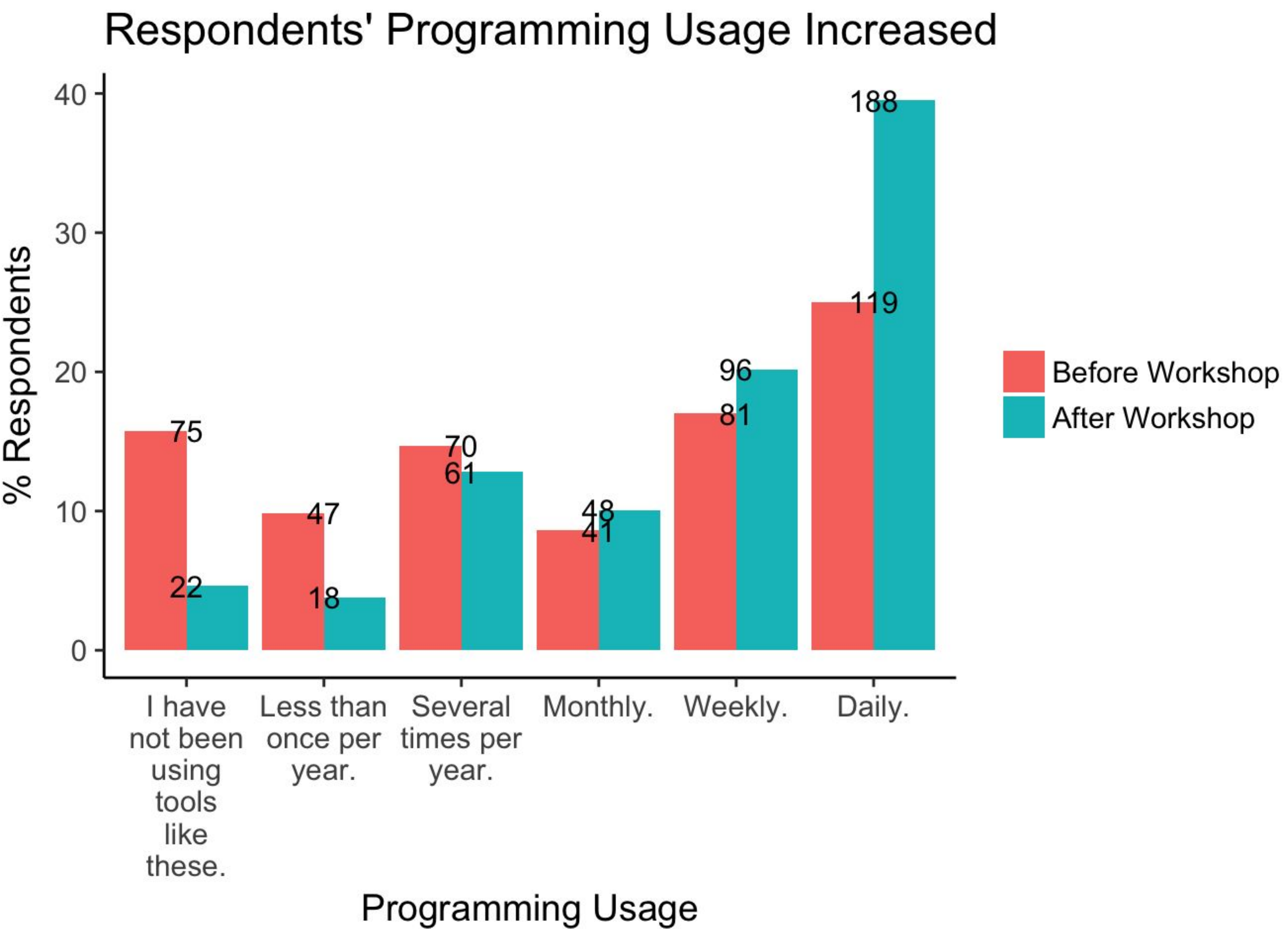
Motivation Post-Workshop



Self-Reported Knowledge Increase (Pre/Post)



Programming Usage 6+ months post-workshop



How is Project Jupyter being shared?

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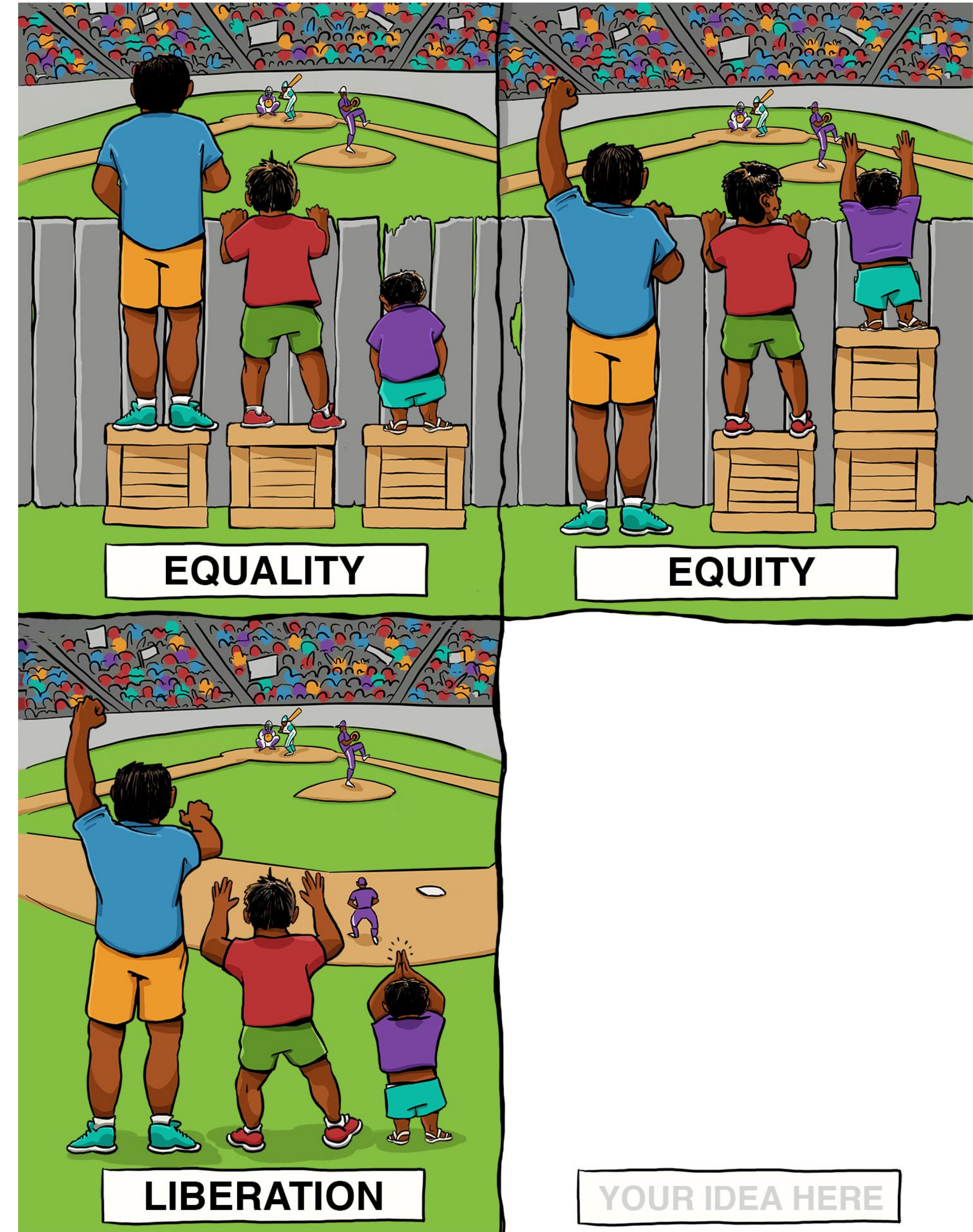
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Share Project Jupyter

- Identify **one person** to mentor/tutor who is **~10 years younger/older than you**.
- Organize a **JupyterDay** in a community that's **brand new** to you.
- Start an **employee resource group** for Jupyter at your place of employment.
- Share your Jupyter Notebooks on **LinkedIn**.
- Organize **Jupyter Meetups** to solve problems in your community or a developing community.
- Become a Software/Data Carpentry instructor and teach Reproducible Research using Jupyter Notebooks
- Submit a Jupyter workshop proposal/tutorial to one of the following organizations/conferences:
 - Ladies Learning Code <http://ladieslearningcode.com>
 - Black Girls Code <http://blackgirlscode.com>
 - National Society of Blacks in Computing <http://diversitycomplete/nsbc>
 - Institute for African-American Mentoring in Computer Science <http://iaamcs.org>
 - Hispanics in Computing <http://hispanicsincomputing.com>
 - Black Women in Computing <http://blackwomenincomputing.org>
 - Girls Who Code <http://girlswhocode.com>

Create your ACTION PLAN

1. Think about the best way you can share Project Jupyter.
2. Pair up with a neighbor and develop 3 actionable steps you'll take in the next month.
3. Share your action plan on the [Etherpad](#).



Share your action plan

<http://pad.software-carpentry.org/equityjupytercon>

THANK YOU!

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Become a member: <http://software-carpentry.org/scf/join>

Get involved: <http://software-carpentry.org/join>

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