

# Figure 3

## Overview

This script ingests a table produced by importance\_plots.qmd and produces figure 3 for the paper.

## Import packages and utilities

```
project_root <- here::here() # requires that you be somewhere in the
# project directory (not above it)
# packages
suppressMessages(source(file.path(project_root, "scripts/packages.R")))
# functions and objects used across scripts
suppressMessages(source(file.path(project_root, "scripts/utils.R")))
```

## Load data

```
# This poorly named function from utils.R
# is basically just read.csv with my data path in there
more_than_mod <- load_qualtrics_data(file.path("data_for_plots/importance.tsv"))
```

Reorder factor levels

```

more_than_mod$job_category <- gsub(
  "Non-research Staff",
  "Non-research\\nstaff",
  more_than_mod$job_category
)

more_than_mod$job_category <- factor(
  more_than_mod$job_category,
  levels = c(
    "Teachers",
    "Researchers",
    "Non-research\\nstaff",
    "Students"
  )
)

more_than_mod$importance_area <- factor(
  more_than_mod$importance_area,
  levels = c(
    "Learning",
    "Professional Development",
    "Teaching",
    "Research",
    "Job"
  )
)

```

```

p <- ggplot(
  more_than_mod,
  aes(
    x = job_category,
    y = pct,
    fill = importance_area
  )
) +
  geom_col(position = position_dodge(width = 0.8), width = 0.7) +
  geom_hline(yintercept = 80, linetype = "dashed", color = "black") +
  ggtitle("Perceived Importance of Open Source\\nfor Different Kinds of Work") +
  labs(
    y = "Percent of Respondents Who Said OS\\nIs above Moderate Importance"
  ) +
  scale_y_continuous(labels = function(x) paste0(x, "%"))

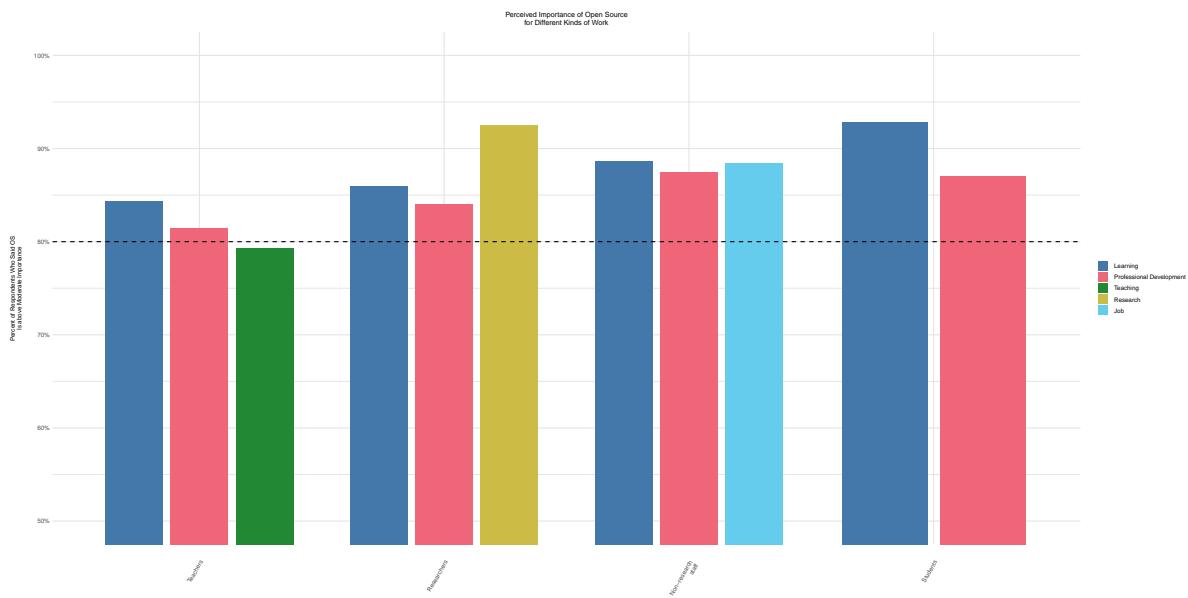
```

```

coord_cartesian(ylim = c(50, 100)) +
theme(
  axis.title.x = element_blank(),
  axis.title.y = element_text(size = 6),
  axis.text.x = element_text(
    angle = 60,
    vjust = 1,
    hjust = 1,
    size = 6,
    margin = margin(t = 12)
  ),
  axis.text.y = element_text(
    size = 6,
    margin = margin(l = 8)
  ),
  axis.ticks.x = element_blank(),
  axis.ticks.y = element_blank(),
  legend.title = element_blank(),
  legend.text = element_text(size = 6),
  legend.key.size = unit(0.75,"line"),
  panel.background = element_blank(),
  plot.title = element_text(hjust = 0.5, size = 7),
  plot.margin = unit(c(0.1, 0.1, 0.1, 0.1), "cm"),
  panel.grid = element_line(linetype = "solid", color = "gray90")
) +
#https://srонpersonalpages.nl/~pault/
scale_fill_manual(
  values = c(
    '#4477AA',
    '#EE6677',
    '#228833',
    '#CCBB44',
    '#66CCEE'
  )
)

```

p



```
ggsave(
  filename = file.path(FIGURE_PATH, "test.tif"),
  plot = p,
  device = "tiff",
  width = 4.5, height = 2.63, units = "in",
  dpi = 450,
  compression = "none",
  bg = "white"
)
```