Connectome 2023 reproducibility sentiment analysis

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Load packages

```
# list packages
pkg <- c("tidyverse", "here", "gt", "viridis")
# install any missing packages and load them
lapply(pkg, function(pkg) {
   if (!require(pkg, character.only = TRUE)) {
     install.packages(pkg)
     library(pkg, character.only = TRUE)
   } else {
     library(pkg, character.only = TRUE)
   }
})</pre>
```

Read in data

```
# read in data
df <-
    readr::read_csv(
    here::here(
        "03_data/001_connectome_2023/2023-10-13_reproducibility-sentiment-analysis.csv"
    ),
    show_col_types = FALSE
    )
gt::gt(df)</pre>
```

question	unfamilar	aware	experienced	actively_using
Version control	2	11	2	14
Unit Tests	16	7	2	3
Containerisation	13	3	2	8
Virtual Environments	2	11	1	14
Workflow Managers	12	7	2	7
CI/CD	20	3	1	3

```
# pivot to long format
df_long <- df %>%
    pivot_longer(cols = -question, names_to = "experience", values_to = "count")
gt::gt(head(df_long))
```

question	experience	count
Version control	unfamilar	2
Version control	aware	11
Version control	experienced	2
Version control	actively_using	14
Unit Tests	unfamilar	16
Unit Tests	aware	7

```
# Create the ggplot with dodged bars and colourblind-friendly palette
ggplot(df_long, aes(x = question, y = count, fill = experience)) +
  geom_col(position = "dodge") +
  scale_fill_viridis_d() + # Use viridis colour palette
  labs(x = "Question", y = "Count", title = "Ordered Plot") +
  theme_bw() +
  # Rotate x-axis labels by 45 degrees
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

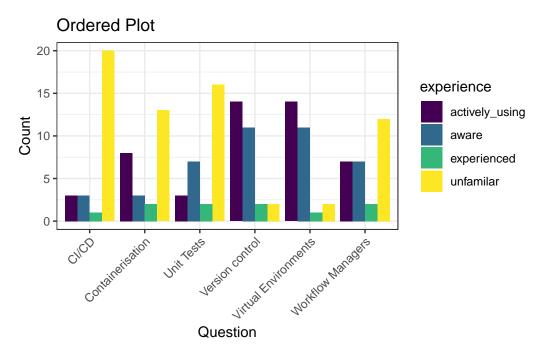


Figure 1: Counts of responses to reproducibility questions gathered at connectome 2023.

Seems like most folk aren't familiar with CI/CD, containers, unit tests and workflow managers (Figure 1). Most people are aware off/actively using version control and virtual environments though. One wonders to what extend they're fully utilising even those though!