

# Ben F orgers

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```
library(tidyverse)
```

```
options(HTTPUserAgent = "iandgow@gmail.com")

t <- "FirmFilings.zip"
url <- "https://pcaobus.org/assets/PCAOBFiles/FirmFilings.zip"
path <- file.path("data", t)

if (!file.exists(path)) {
  download.file(url, path)
}
```

```
fix_names <- function(names) {
  names <- tolower(gsub("\\s+", "_", names))
  names <- gsub("<", "lt", names)
  names <- gsub(">", "gt", names)
  names <- gsub("[](_)+", "_", names)
  names
}

form_aps <-
  read_csv(path, guess_max = Inf, show_col_types = FALSE) |>
  rename_with(fix_names)

combine_names <- function(names) {
  names <- str_replace_na(names, "")
  names <- str_c(names, collapse = " ")
  names <- str_replace_all(names, "\\s+", " ")
  names
}
```

```

most_common_name <-
  form_aps |>
  count(engagement_partner_id,
        engagement_partner_last_name,
        engagement_partner_middle_name,
        engagement_partner_first_name,
        name = "n_forms") |>
  group_by(engagement_partner_id) |>
  arrange(desc(n_forms)) |>
  filter(row_number() == 1) |>
  rowwise() |>
  mutate(engagement_partner_name =
    combine_names(c(engagement_partner_first_name,
                    engagement_partner_middle_name,
                    engagement_partner_last_name))) |>
  select(engagement_partner_id, engagement_partner_name)

names_df <-
  form_aps |>
  distinct(engagement_partner_id,
           engagement_partner_last_name,
           engagement_partner_middle_name,
           engagement_partner_first_name) |>
  count(engagement_partner_id, name = "n_names") |>
  inner_join(most_common_name, by = "engagement_partner_id")

names_df |>
  filter(n_names >= 6) |>
  arrange(desc(n_names))

```

```

# A tibble: 13 x 3
  engagement_partner_id n_names engagement_partner_name
  <chr>                <int> <chr>
1 0504100001          14 Ben F Borgers
2 0596811101           9 OLAYINKA TEMITOPE OYEBOLA
3 0271600002           8 Yong Yun Lee
4 0616700001           8 Thomas Michael O'Neal
5 0053600002           7 Louis V Esposito
6 0625500001           7 kian kok wong
7 0028700001           6 Derek Webb
8 0045763853           6 Richard J Fleischman
9 0057200001           6 Corey Eric Fischer
10 0117100608           6 Patrick Wong

```

11	0611700001	6	Kristofer Heaton
12	0619707588	6	Jaslyn Huynh
13	0626800001	6	SAU JONG LIM

```
names_df |>
  count(n_names, name = "count") |>
  ggplot(aes(x = n_names, y = count)) +
  geom_col()
```

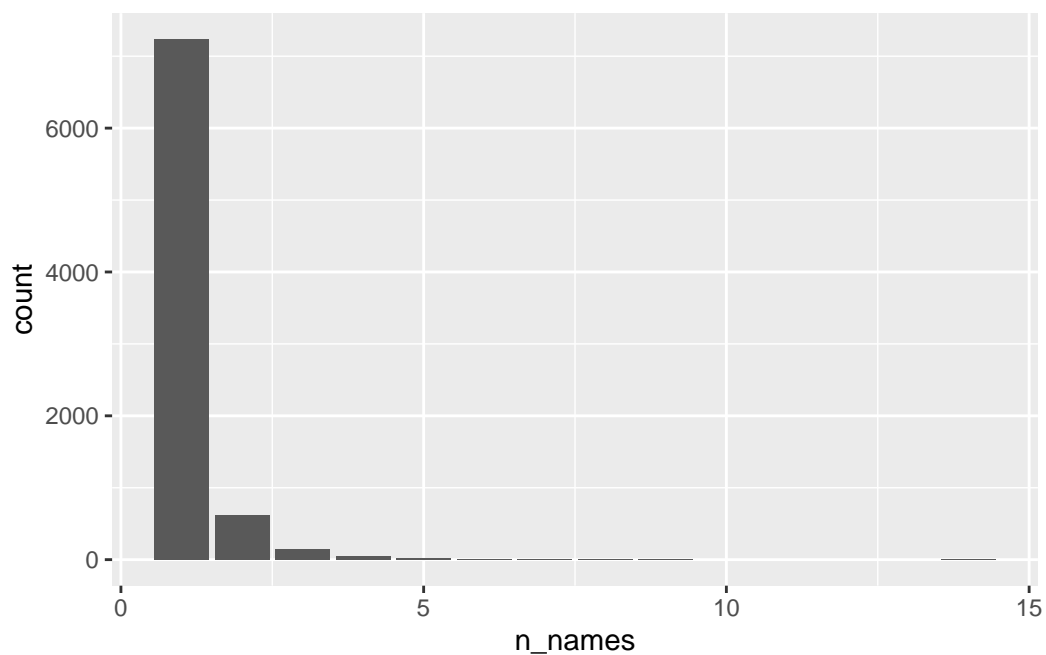


Figure 1: Distribution of auditors by number of reported spellings

```
names_df |>
  count(n_names, name = "count") |>
  ggplot(aes(x = n_names, y = count)) +
  geom_col() +
  scale_y_continuous(transform = "log1p")
```

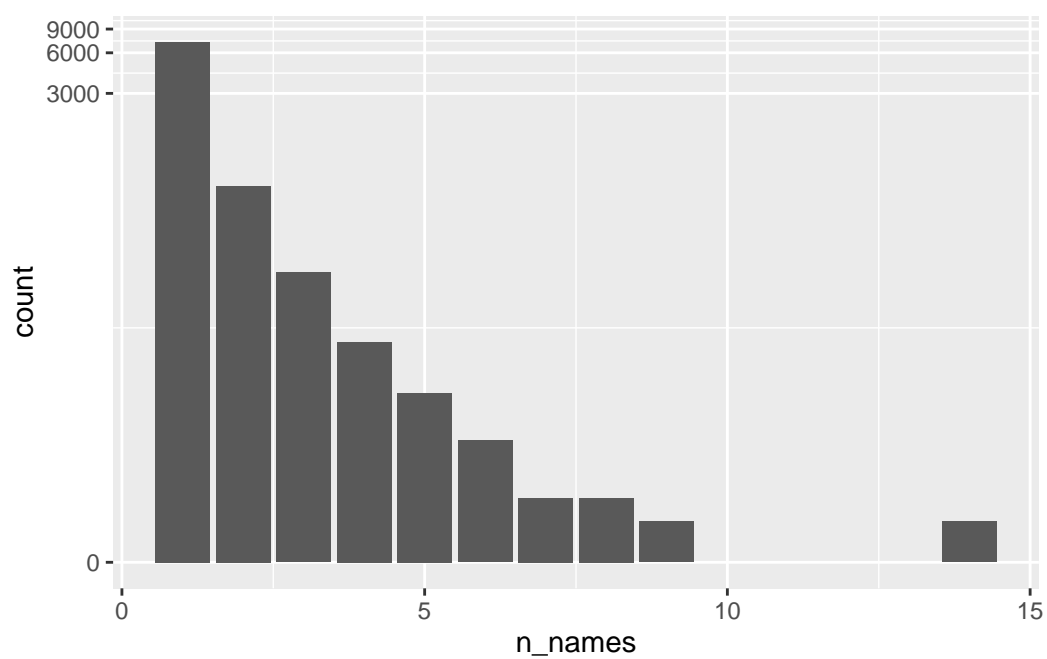


Figure 2: Distribution of auditors by number of reported spellings ( $\log(1 + y)$ )