

```
# Load packages -----
```

```
library(here)
```

here() starts at /Users/sok-anton/Documents/repos/basketball-coaching-teams

```
library(readr)
```

```
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

filter, lag

The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

```
library(tidyr)
```

```
library(ggplot2)
```

```
library(forcats)
```

```
library(tidytext)
```

```
library(hrbrthemes)
```

NOTE: Either Arial Narrow or Roboto Condensed fonts are required to use these themes.

Please use `hrbrthemes::import_roboto_condensed()` to install Roboto Condensed and

if Arial Narrow is not on your system, please see <https://bit.ly/arialnarrow>

```
library(forcats)
```

```
extrafont::loadfonts(quiet = TRUE)
```

```

# Set parameters -----

theme_set(
  theme_ipsum(
    axis = FALSE,
    grid = FALSE,
    grid_col = "Gray50",
    plot_margin = margin(5, 5, 5, 5),
    # base_size = 14,
    # strip_text_size = 20,
    # subtitle_size = 20,
    subtitle_margin = 0
  ) +
  theme(
    panel.border = element_rect(color = "Gray50", fill = NA),
    strip.text = element_text(vjust = 0, margin = margin(0,0,5,0)),
    panel.spacing.x = unit(1.5, "lines"),
    panel.spacing.y = unit(1.5, "lines"),
  )
)

## Color scale
col_scale <- c("Höjning" = "#1b9e77", "Samma" = "#7570b3", "Sänkning" = "#d95f02")

# Read data ----
pre_post_data_raw <- read_csv(here("data/prepost.csv"))

```

Rows: 90 Columns: 74

```

-- Column specification -----
Delimiter: ","
chr  (5): participant_id, staff, time, participate_last_year, contact_pre
dbl (69): season, coach_nr_years_head, coach_nr_years_head_alone, coach_nr_y...

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```

```

data_dict <- read_csv(here("data/basketball_season1_prepost_codebook.csv")) |>
  select(human_name, variable) |>
  tibble::deframe()

```

Rows: 62 Columns: 5

-- Column specification -----

Delimiter: ","

chr (3): variable, human_name, full_question

dbl (2): year_2022, year_2023

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```
# Prepare data ----
```

```
## Post data ----
```

```
post_data <- pre_post_data_raw |>
  filter(time == "post") |>
  drop_na(psych_safety) |>
  group_by(staff) |>
  filter(n() > 1)
```

```
## Change data ----
```

```
pre_post_data_clean <- pre_post_data_raw |>
  arrange(season, participant_id, desc(time)) |>
  mutate(
    time = factor(time, levels = c("pre", "post"), labels = c("Före", "Efter")),
    season = factor(season, ordered = TRUE),
  ) |>
  group_by(participant_id) |>
  mutate(
    across(
      where(is.numeric),
      \(x) if_else(any(is.na(x)) == 1, NA, last(x) - first(x)),
      .names = "{.col}_change"
    ),
    across(
      where(is.numeric),
      \(x) {
        case_when(
          between(x, -1, 1) ~ "Samma",
          x >= 1 ~ "Höjning",

```

```

      x <= 1 ~ "Sänkning"
    )
  },
  .names = "{.col}_cat"
)
) |>
select(where(~!all(is.na(.x)))) |>
ungroup()

```

Resultat

Antal deltagande coachaer

Erfarenhet

```

pre_post_data_clean |>
  filter(time == "Före") |>
  select(season, starts_with("coach"), -contains(c("change", "cat"))) |>
  pivot_longer(starts_with("coach")) |>
  mutate(
    name = fct_recode(
      name,
      "Headcoach" = "coach_nr_years_head",
      "Headcoach utan ass coach" = "coach_nr_years_head_alone",
      "Headcoach med ass coach" = "coach_nr_years_head_with_ass",
      "Ass coach" = "coach_nr_years_ass",
      "Delat ledarskap" = "coach_nr_years_shared_leadership",
    )
  ) |>
  ggplot(aes(x = season, y = value)) +
  geom_point() +
  facet_wrap(~name) +
  labs(
    title = "Antal säsongers coacherfarenhet",
    y = NULL,
    x = NULL
  )

```

Warning: Removed 20 rows containing missing values (`geom_point()`).

Antal säsongers coacherfarenhet

