

# 2021 olympics

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Import data

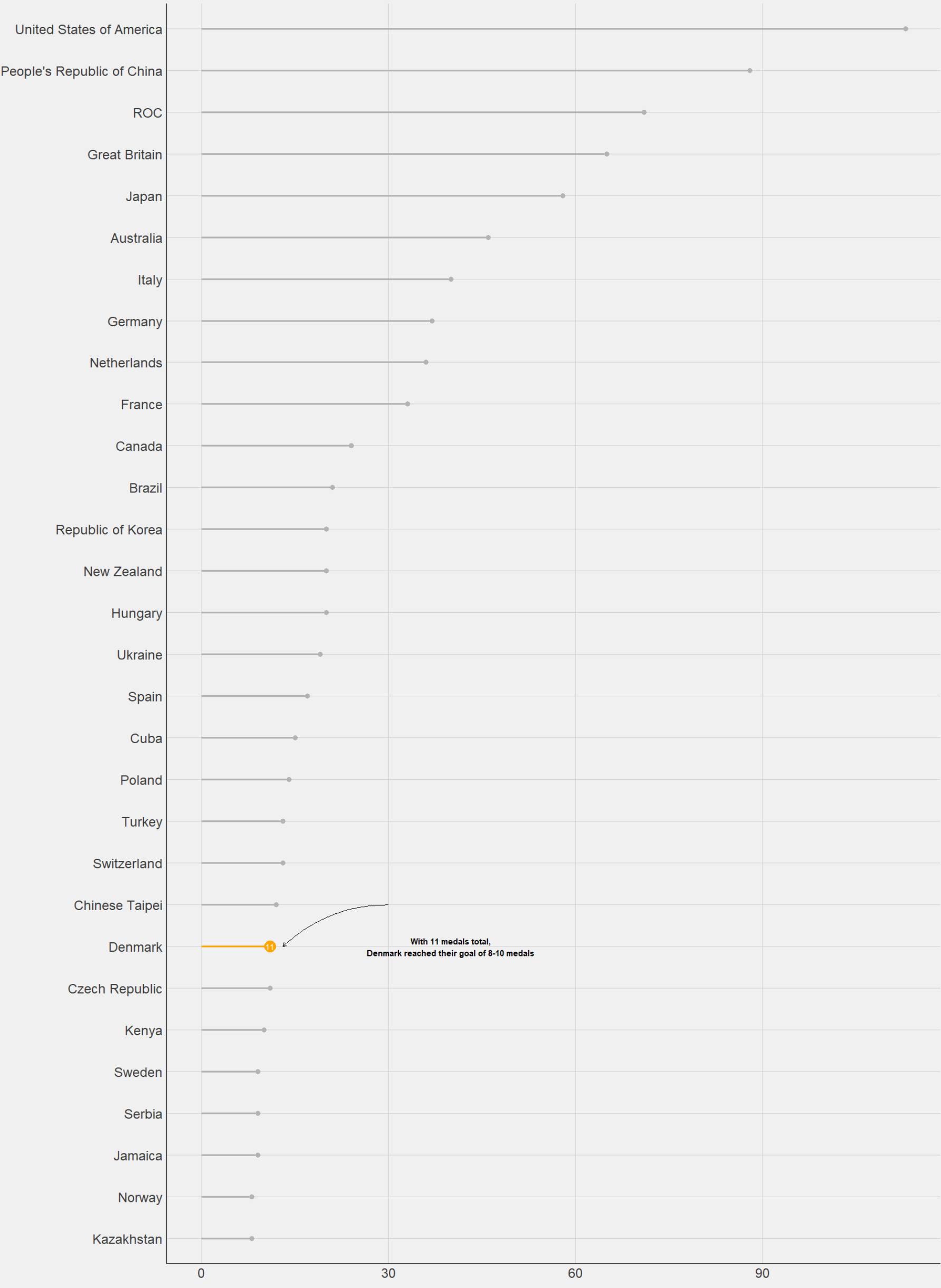
Total medals per country

```
medals_30 <-
  medals %>%
  mutate(
    team_noc = fct_reorder(team_noc, total)
  ) %>%
  slice_max(team_noc, n = 30)

medals_30 %>%
  ggplot(aes(team_noc, total)) +
  geom_segment(aes(x = team_noc, xend = team_noc, y = 0, yend = total),
    color = if_else(medals_30$team_noc == "Denmark", "orange", "grey70"),
    size = 1.2, color = "grey70"
  ) +
  geom_point(aes(team_noc, total),
    color = if_else(medals_30$team_noc == "Denmark", "orange", "grey70"),
    size = if_else(medals_30$team_noc == "Denmark", 7, 3)
  ) +
  geom_text(aes(team_noc, total, label = if_else(team_noc == "Denmark", total, NULL)), color = "white") +
  coord_flip() +
  labs(
    y = NULL,
    x = NULL,
    title = "Toal olympic medals by country: Tokyo 2021",
    subtitle = "The medal race is topped by the usual suspects, USA and China"
  ) +
  annotate("text", x = 8, y = 40, label = "With 11 medals total,\nDenmark reached their goal of 8-10 medals", fontfac
  ) +
  annotate(
    geom = "curve", x = 9, y = 30, xend = 8, yend = 13,
    curvature = .2, arrow = arrow(length = unit(2, "mm"))
  ) +
  theme_fivethirtyeight() +
  theme_custom
```

Toal olympic medals by country: Tokyo 2021

The medal race is topped by the usual suspects, USA and China



Detailed overview in table

```
medals %>%
  datatable() %>%
  formatStyle(
    columns = "gold",
    backgroundColor = "gold"
  ) %>%
  formatStyle("silver", backgroundColor = "silver") %>%
  formatStyle("bronze", backgroundColor = "orange")
```

|    | rank↑↓ | team_noc                   | ↑↓ | gold↑↓ | silver↑↓ | bronze↑↓ | total↑↓ | rank_by_total↑↓ |
|----|--------|----------------------------|----|--------|----------|----------|---------|-----------------|
| 1  | 1      | United States of America   |    | 39     | 41       | 33       | 113     | 1               |
| 2  | 2      | People's Republic of China |    | 38     | 32       | 18       | 88      | 2               |
| 3  | 3      | Japan                      |    | 27     | 14       | 17       | 58      | 5               |
| 4  | 4      | Great Britain              |    | 22     | 21       | 22       | 65      | 4               |
| 5  | 5      | ROC                        |    | 20     | 28       | 23       | 71      | 3               |
| 6  | 6      | Australia                  |    | 17     | 7        | 22       | 46      | 6               |
| 7  | 7      | Netherlands                |    | 10     | 12       | 14       | 36      | 9               |
| 8  | 8      | France                     |    | 10     | 12       | 11       | 33      | 10              |
| 9  | 9      | Germany                    |    | 10     | 11       | 16       | 37      | 8               |
| 10 | 10     | Italy                      |    | 10     | 10       | 20       | 40      | 7               |

Showing 1 to 10 of 93 entries

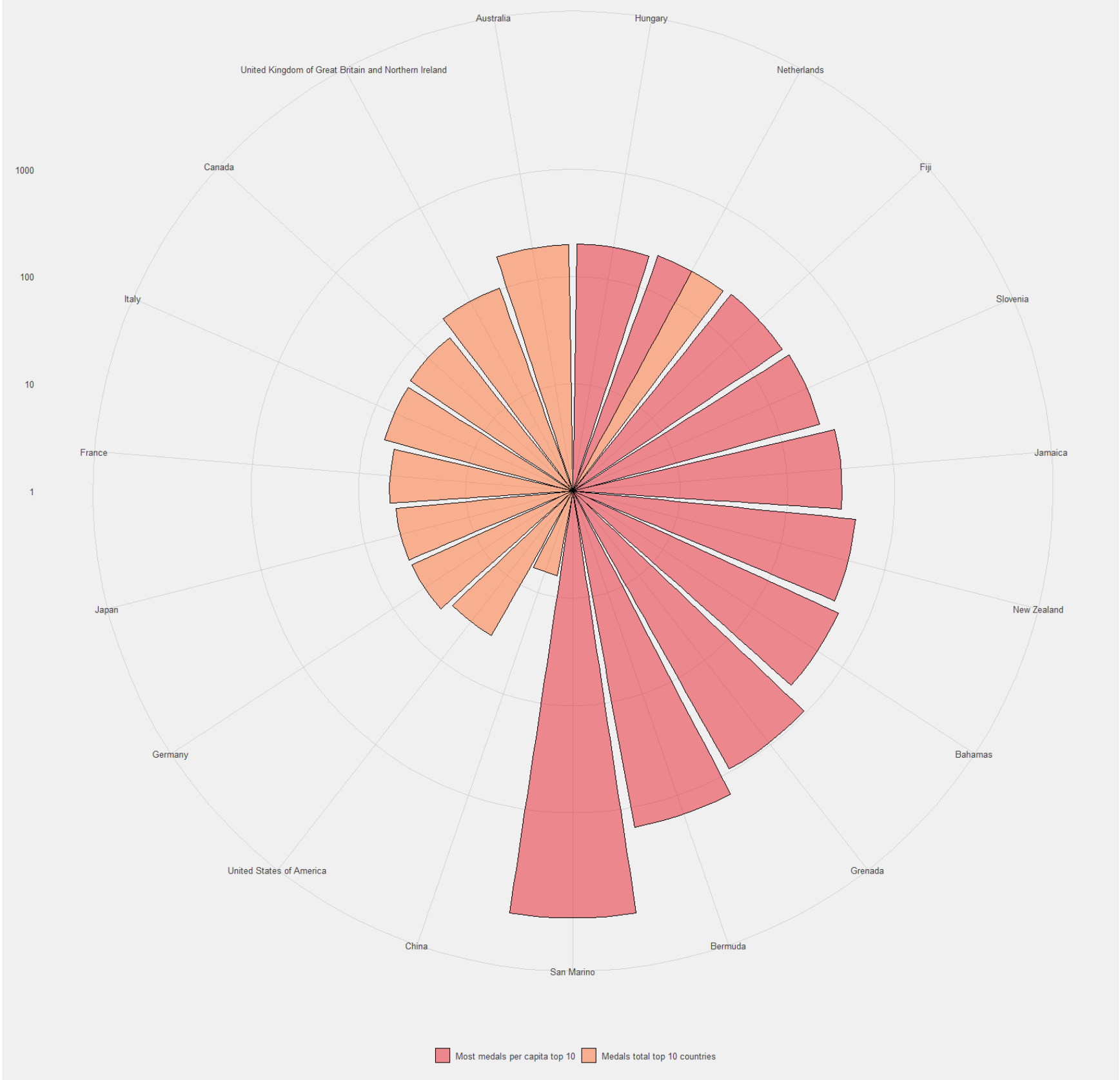
Plot of top 10 total medals per countries compared to top 10 total medals countries per capita. Maybe a circular barplot?

```

population %>%
  filter(year == 2013) %>%
  left_join(medals %>%
    rename(country = team_noc), by = "country") %>%
  drop_na() %>%
  mutate(
    medals_per_capita = (total / population) * 1e8,
    group = factor("Most medals per capita top 10")
  ) %>%
  slice_max(medals_per_capita, n = 10) %>%
  bind_rows(
    population %>%
      filter(year == 2013) %>%
      left_join(medals %>%
        rename(country = team_noc) %>%
        mutate(
          country = str_replace_all(country, c(
            "ROC" = "Russia",
            "Great Britain" = "United Kingdom of Great Britain and Northern Ireland",
            "People's Republic of China" = "China"
          ))
        ), by = "country") %>%
      drop_na() %>%
      mutate(
        medals_per_capita = (total / population) * 1e8,
        group = factor("Medals total top 10 countries")
      ) %>%
      slice_min(rank_by_total, n = 10)
  ) %>%
  group_by(group) %>%
  mutate(country = fct_reorder(country, medals_per_capita)) %>%
  ggplot(aes(country, medals_per_capita, fill = group)) +
  geom_col(position = "dodge", color = "black", alpha = .5) +
  coord_polar() +
  theme_fivethirtyeight() +
  scale_fill_tableau(palette = "Jewel Bright") +
  scale_y_log10() +
  labs(fill = NULL,
    title = "Medal per capita",
    subtitle = "Comparison between the top 10 countries based on total medals and top 10 countries based on most m

```

**Medal per capita**  
Comparison between the top 10 countries based on total medals and top 10 countries based on most medals per capita



# TODO overvej også at smide Danmark ind i plottet