Course 1 Section 3.15 - Your turn

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```r
devtools::install_github("ropenscilabs/cricketdata")
```

```r
library(tidyverse)
library(rvest)
```

```r
odi_url <- "https://www.icc-cricket.com/rankings/mens/team-rankings/odi"
odi_page <- read_html(odi_url)
odi <- html_table(odi_page, fill = TRUE)[[1]]

# remove the empty space in varaible name
names(odi) <- str_replace(names(odi), "\n.*", "")
odi <- odi %>%
  as_tibble() %>%
  mutate(Team = str_replace(Team, "\n.*", ""))
odi
```

```
## # A tibble: 20 x 5
##       Pos Team              Matches Points Rating
##     <int> <chr>               <int> <chr>   <int>
## 1       1 England                44 5,405     123
## 2       2 India                  49 5,819     119
## 3       3 New Zealand            32 3,716     116
## 4       4 Australia              36 3,941     109
## 5       5 South Africa           31 3,345     108
## 6       6 Pakistan               32 3,254     102
## 7       7 Bangladesh             34 2,989      88
## 8       8 Sri Lanka              39 3,297      85
## 9       9 West Indies            43 3,285      76
## 10     10 Afghanistan            28 1,549      55
## 11     11 Ireland                24 1,256      52
## 12     12 Netherlands             5 222        44
## 13     13 Oman                   12 479        40
## 14     14 Zimbabwe               24 935        39
## 15     15 Scotland               16 419        26
## 16     16 Nepal                   9 161        18
## 17     17 UAE                    15 259        17
## 18     18 Namibia                 9 152        17
## 19     19 United States          14 185        13
## 20     20 Papua New Guinea       14 0           0
```

```r
t20_url <- "https://www.icc-cricket.com/rankings/mens/team-rankings/t20i"
t20i_page <- read_html(t20_url)
t20i <- html_table(t20i_page, fill = TRUE)[[1]]

# remove the empty space in varaible name
names(t20i) <- str_replace(names(t20i), "\n.*", "")
t20i <- t20i %>%
  as_tibble() %>%
  mutate(Team = str_replace(Team, "\n.*", ""))
t20i
```

```
## # A tibble: 85 x 5
##       Pos Team         Matches Points Rating
##     <int> <chr>          <int> <chr>   <int>
## 1       1 Australia         22 6,047     275
## 2       2 England           22 5,959     271
## 3       3 India             35 9,319     266
## 4       4 Pakistan          23 6,009     261
## 5       5 South Africa      17 4,380     258
## 6       6 New Zealand       23 5,565     242
## 7       7 Sri Lanka         23 5,293     230
## 8       8 Bangladesh        20 4,583     229
## 9       9 West Indies       24 5,499     229
## 10     10 Afghanistan       17 3,882     228
## # ... with 75 more rows
```
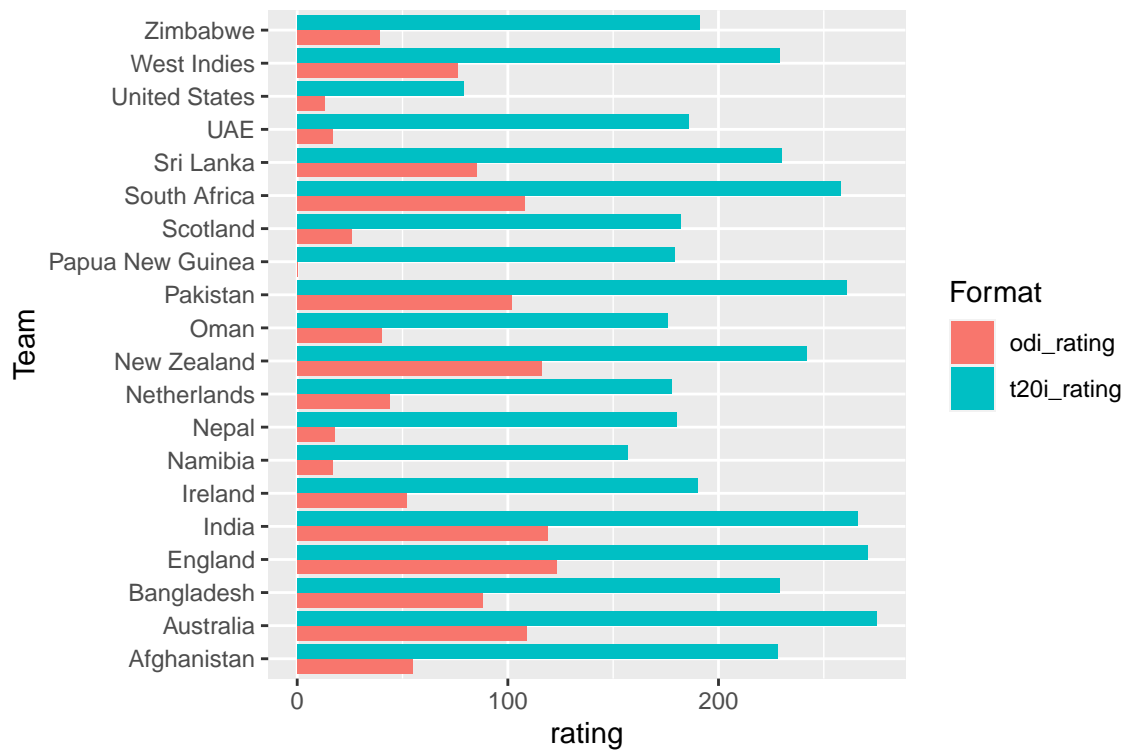
For teams that are in both ODI and T20, make a plot comparing their ratings.

```r
inner_join(odi, t20i, by = c("Team")) %>%
  rename(odi_rating = Rating.x,
         t20i_rating = Rating.y) %>%
  gather(key = "Format",
         value = "rating",
         odi_rating, t20i_rating) %>%
  ggplot(aes(x = Team, y = rating, fill = Format)) +
  geom_bar(stat = "identity", position = "dodge") +
  coord_flip()
```

What countries do better in T20 relative to their ODI performance?

```
inner_join(odi, t20i, by = c("Team")) %>%
  rename(odi_rating = Rating.x,
         t20i_rating = Rating.y) %>%
  gather(key = "Format",
         value = "rating",
         odi_rating, t20i_rating) %>%
  ggplot(aes(x = Team, y = rating, fill = Format)) +
  geom_bar(stat = "identity", position = "fill") +
  coord_flip()
```