

International Matchups EDA

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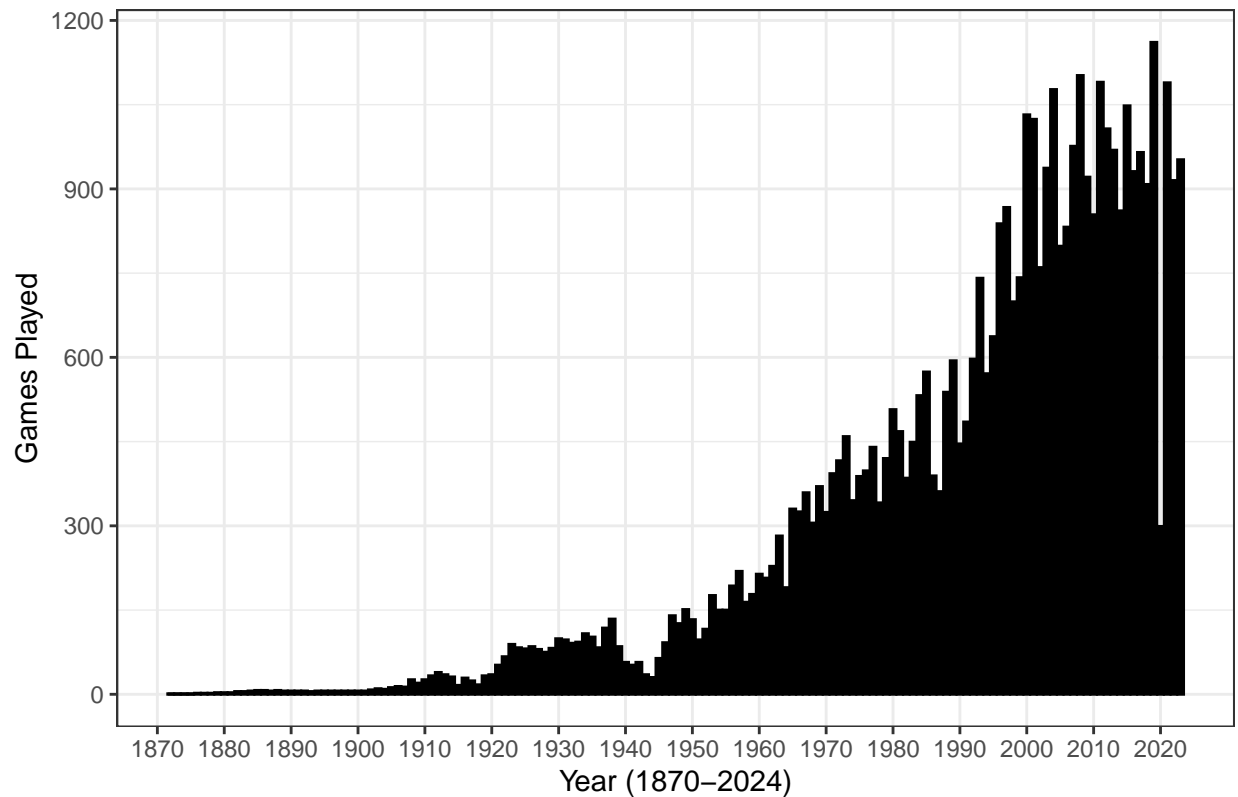
```
source("load-data.R")
```

```
theme_plots <- function() {  
  theme_bw()  
}
```

```
theme_set(theme_plots())
```

```
ggplot(results, aes(x = year(date))) +  
  geom_bar(color = "black", fill = "black") +  
  scale_x_continuous(breaks = seq(1870, 2020, 10)) +  
  theme(panel.grid.minor.x = element_blank()) +  
  labs(x = "Year (1870-2024)",  
       title = "International Soccer Matches by Year",  
       y = "Games Played")
```

International Soccer Matches by Year



```
results %>%
  group_by(tournament) %>%
  summarize(matches = n(),
             first_played = min(year(date)),
             last_played = max(year(date))) %>%
  arrange(-matches) %>%
  mutate(matches = formatC(matches, format = "d", big.mark = ",")) %>%
  head(10) %>%
  as.data.frame()
```

##	tournament	matches	first_played	last_played
## 1	Friendly	17,773	1872	2023
## 2	FIFA World Cup qualification	8,016	1933	2023
## 3	UEFA Euro qualification	2,815	1958	2023
## 4	African Cup of Nations qualification	1,998	1961	2023
## 5	FIFA World Cup	964	1930	2022
## 6	Copa América	841	1916	2021
## 7	AFC Asian Cup qualification	764	1956	2022
## 8	African Cup of Nations	741	1957	2022
## 9	CECAFA Cup	620	1973	2017
## 10	CFU Caribbean Cup qualification	606	1978	2017

```
home_results <- results %>%
  group_by(year = year(date)) %>%
  summarise(Win = length(home_result[home_result == "W"]),
```

```

    Draw = length(home_result[home_result == "D"]),
    Loss = length(home_result[home_result == "L"])) %>%
pivot_longer(cols = c(Win, Draw, Loss), names_to = "result",
              values_to = "count") %>%
mutate(result = factor(result, levels = c("Win", "Draw", "Loss")))

ggplot(home_results %>% filter(year >= 1960), aes(x = year, y = count,
                                                  fill = result),

        color = "white") +
geom_col(position = "fill") +
scale_fill_manual(values = c("Win" = "darkgreen",
                             "Draw" = "grey",
                             "Loss" = "tomato")) +

coord_flip() +
scale_x_reverse() +
labs(title = "Home Field Advantage Remains Nearly Constant over Time",
      y = "Proportion of Results for Home Team",
      x = "Year (1960-2024)" +
scale_y_continuous(labels = scales::percent)

```

