

# Tennis Big 3

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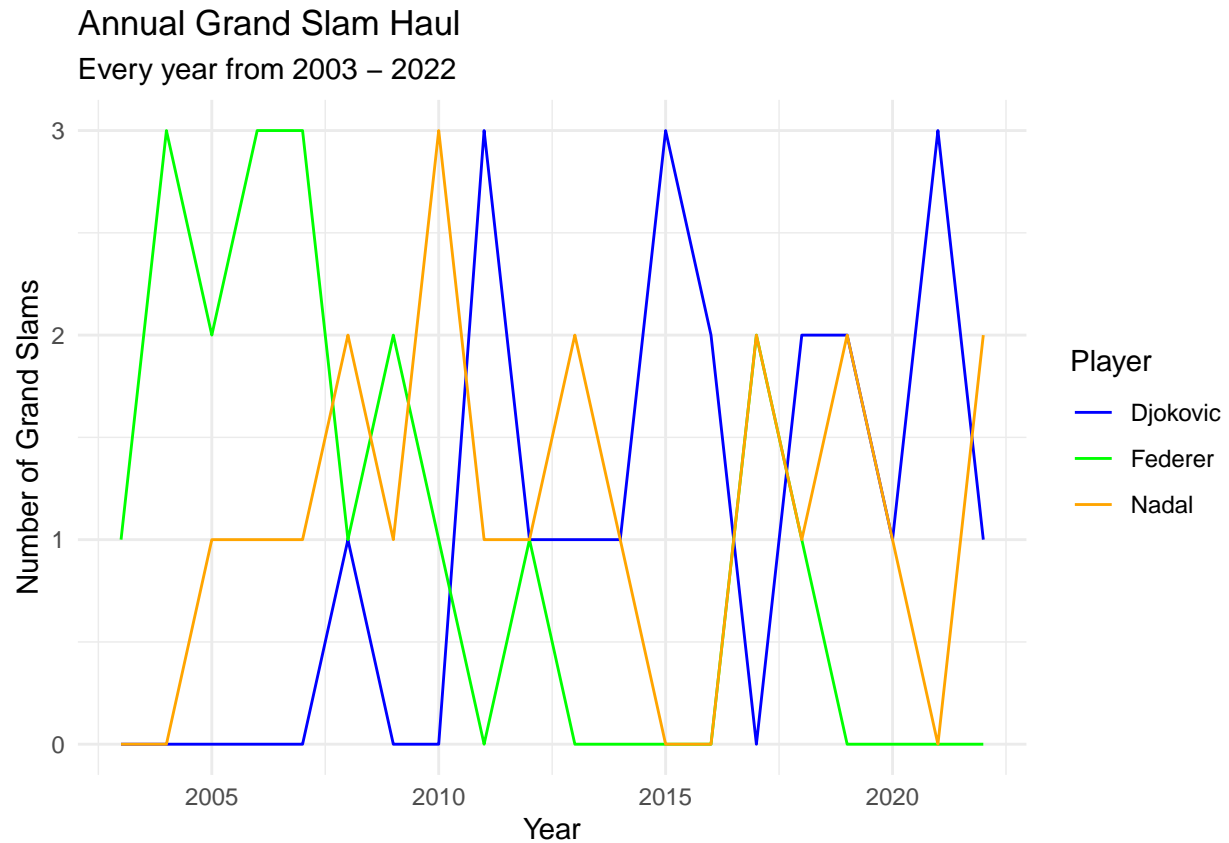
```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0      v purrr  1.0.0
## v tibble  3.1.8      v dplyr  1.0.10
## v tidyr   1.2.1      v stringr 1.5.0
## v readr   2.1.3      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
library(tibble)
library(ggplot2)
library(readxl)
```

```
Big_3 <- read_excel('C:\\Users\\calla\\Desktop\\Github\\Big_3.xlsx')
```

```
ggplot(Big_3, aes(year, gs_won)) +
  geom_line(aes(color = player)) +
  scale_color_manual(values = c("Blue", "Green", "Orange")) +
  labs(
    x = "Year",
    y = "Number of Grand Slams",
    color = "Player",
    title = "Annual Grand Slam Haul",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

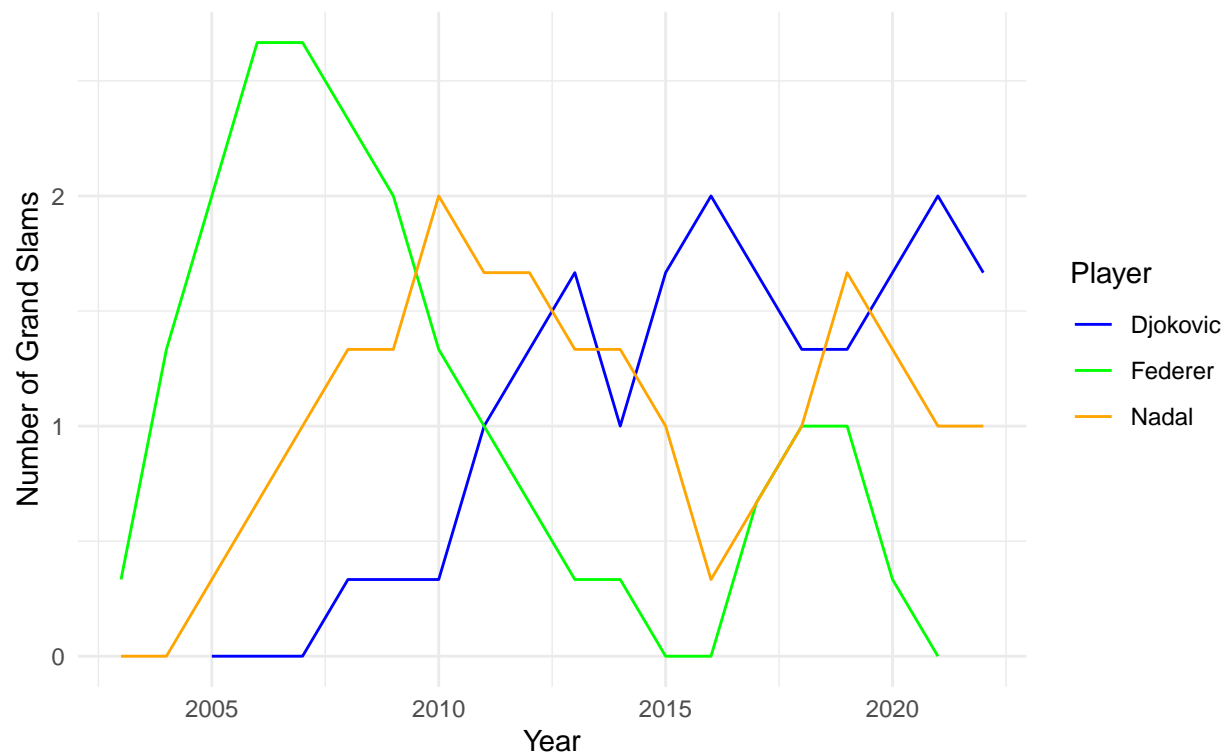


```
ggplot(Big_3, aes(year, rolling_gs_avg)) +
  geom_line(aes(color = player)) +
  scale_color_manual(values = c("Blue", "Green", "Orange")) +
  labs(
    x = "Year",
    y = "Number of Grand Slams",
    color = "Player",
    title = "3-Year Average Annual Grand Slam Haul",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

```
## Warning: Removed 3 rows containing missing values ('geom_line()').
```

### 3-Year Average Annual Grand Slam Haul

Every year from 2003 – 2022

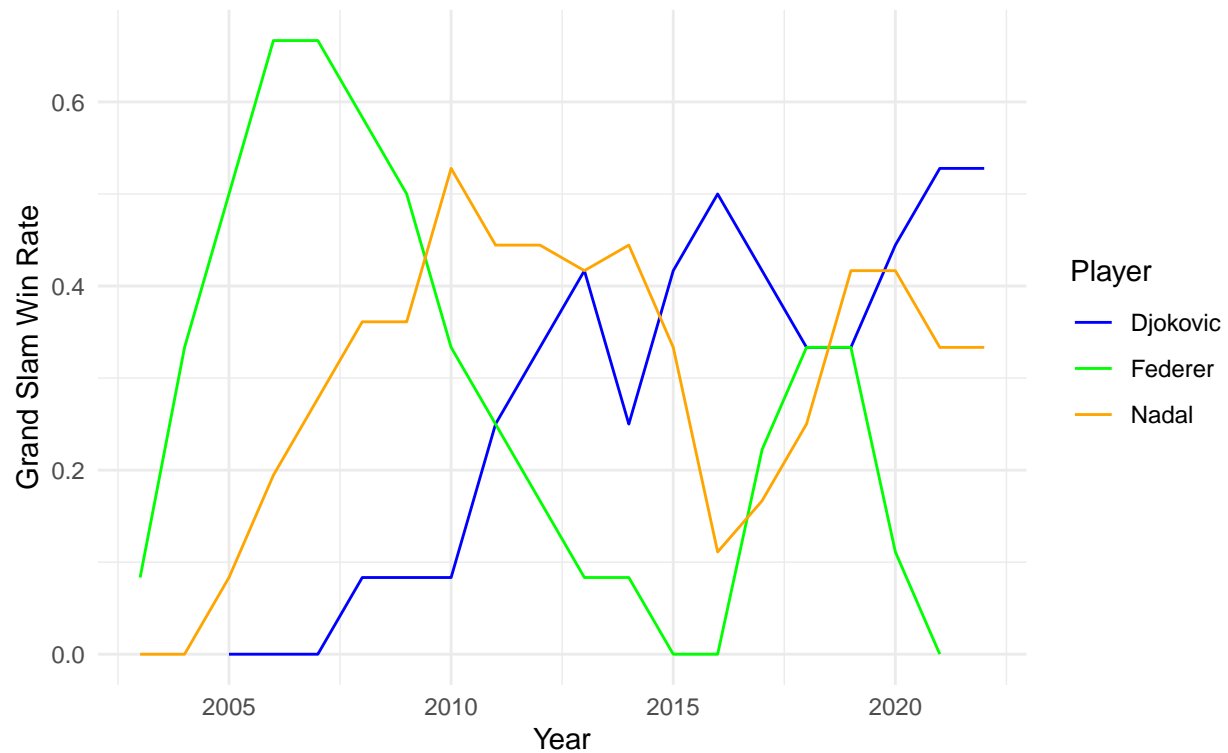


```
ggplot(Big_3, aes(year, rolling_gs_win_rate)) +
  geom_line(aes(color = player)) +
  scale_color_manual(values = c("Blue", "Green", "Orange")) +
  labs(
    x = "Year",
    y = "Grand Slam Win Rate",
    color = "Player",
    title = "3-Year Average Annual Grand Slam Win Rate",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

## Warning: Removed 3 rows containing missing values ('geom\_line()').

### 3-Year Average Annual Grand Slam Win Rate

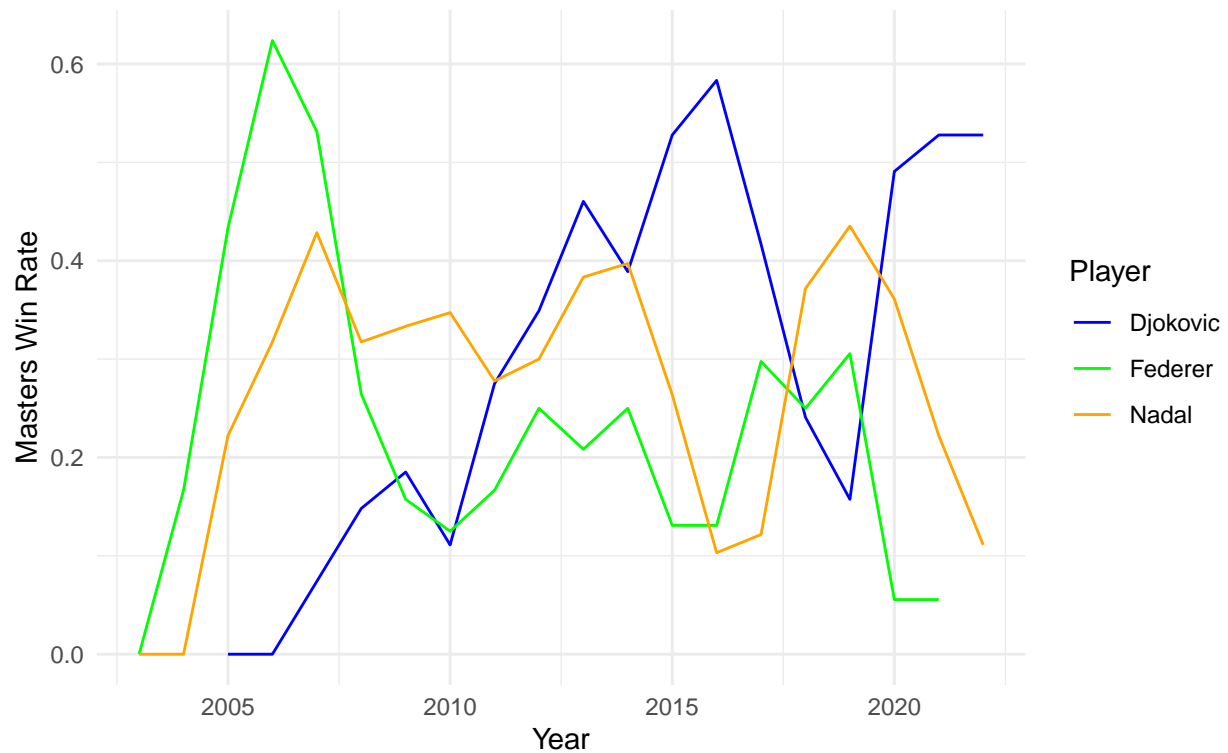
Every year from 2003 – 2022



```
ggplot(Big_3, aes(year, rolling_mast_win_rate)) +  
  geom_line(aes(color = player)) +  
  scale_color_manual(values = c("Blue", "Green", "Orange")) +  
  labs(  
    x = "Year",  
    y = "Masters Win Rate",  
    color = "Player",  
    title = "3-Year Average Annual Masters Win Rate",  
    subtitle = "Every year from 2003 - 2022") +  
  theme_minimal()
```

## Warning: Removed 3 rows containing missing values ('geom\_line()').

3-Year Average Annual Masters Win Rate  
Every year from 2003 – 2022

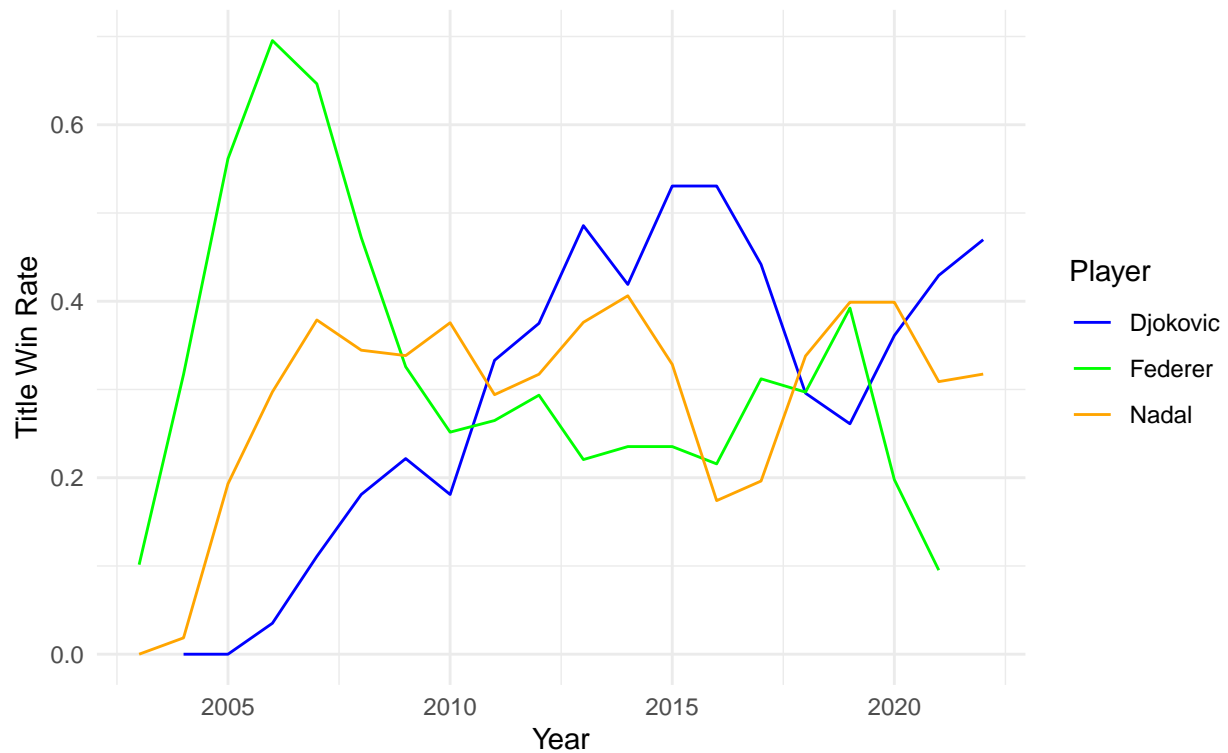


```
ggplot(Big_3, aes(year, rolling_title_win_rate)) +
  geom_line(aes(color = player)) +
  scale_color_manual(values = c("Blue", "Green", "Orange")) +
  labs(
    x = "Year",
    y = "Title Win Rate",
    color = "Player",
    title = "3-Year Average Annual Title Win Rate",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

```
## Warning: Removed 2 rows containing missing values ('geom_line()').
```

### 3-Year Average Annual Title Win Rate

Every year from 2003 – 2022

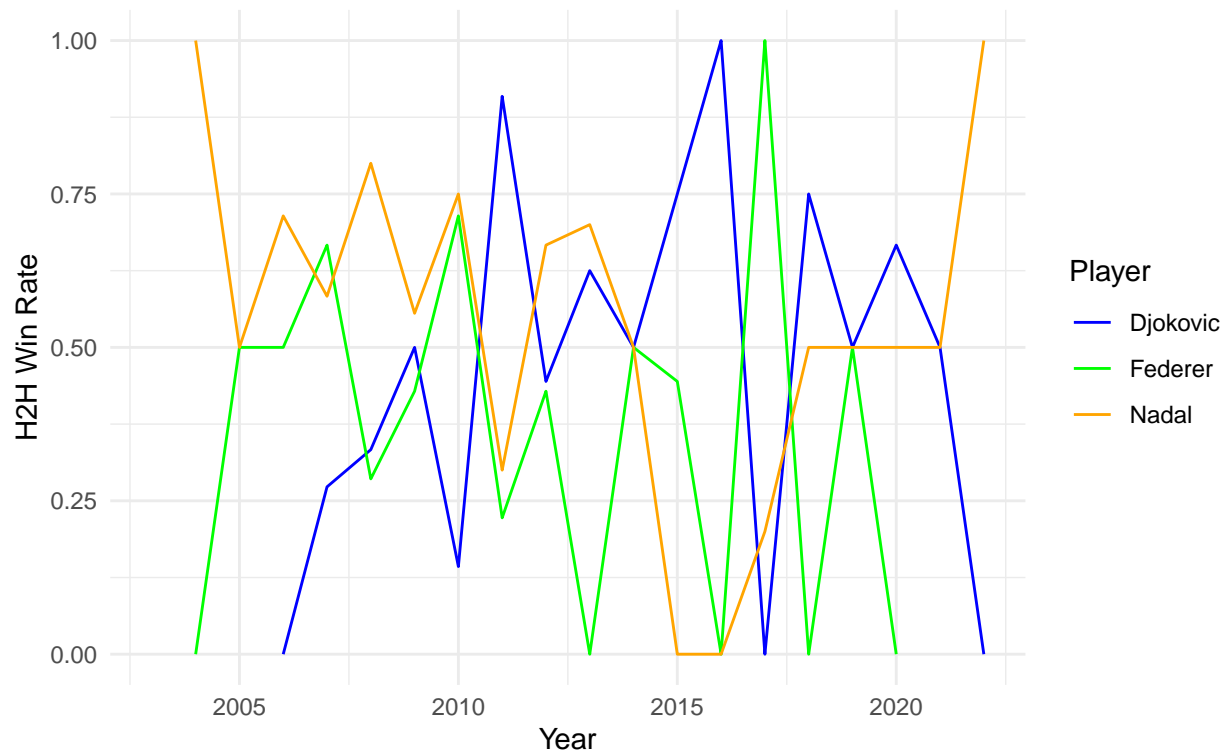


```
ggplot(Big_3, aes(year, h2h_win_rate)) +
  geom_line(aes(color = player)) +
  scale_color_manual(values = c("Blue", "Green", "Orange")) +
  labs(
    x = "Year",
    y = "H2H Win Rate",
    color = "Player",
    title = "Annual Big 3 Head to Head Win Rate",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

## Warning: Removed 7 rows containing missing values ('geom\_line()').

## Annual Big 3 Head to Head Win Rate

Every year from 2003 – 2022



```
ggplot(Big_3, aes(year, gs_no_nadal)) +
  geom_line(data = subset(Big_3, player == "Federer"), stat = "identity") +
  scale_color_manual(values = c("Blue", "Green")) +
  labs(
    x = "Year",
    y = "Grand Slams Won",
    color = "Player",
    title = "Big 3 Annual Grand Slam Haul With No Nadal",
    subtitle = "Every year from 2003 - 2022") +
  theme_minimal()
```

## Warning: Removed 1 row containing missing values ('geom\_line()').

Big 3 Annual Grand Slam Haul With No Nadal  
Every year from 2003 – 2022

