

# Dynasty

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```
library(tidyverse)
```

```
## Warning: package 'ggplot2' was built under R version 4.4.1
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    4.0.0      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.1
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(readxl)
library(viridis)
```

```
## Loading required package: viridisLite
```

```
dynasty <- read_excel("dynasty.xlsx")

dynasty <- dynasty %>%
  mutate(`Last Name` = str_to_title(`Last Name`),
         Position = str_to_title(Position))
```

## Plots

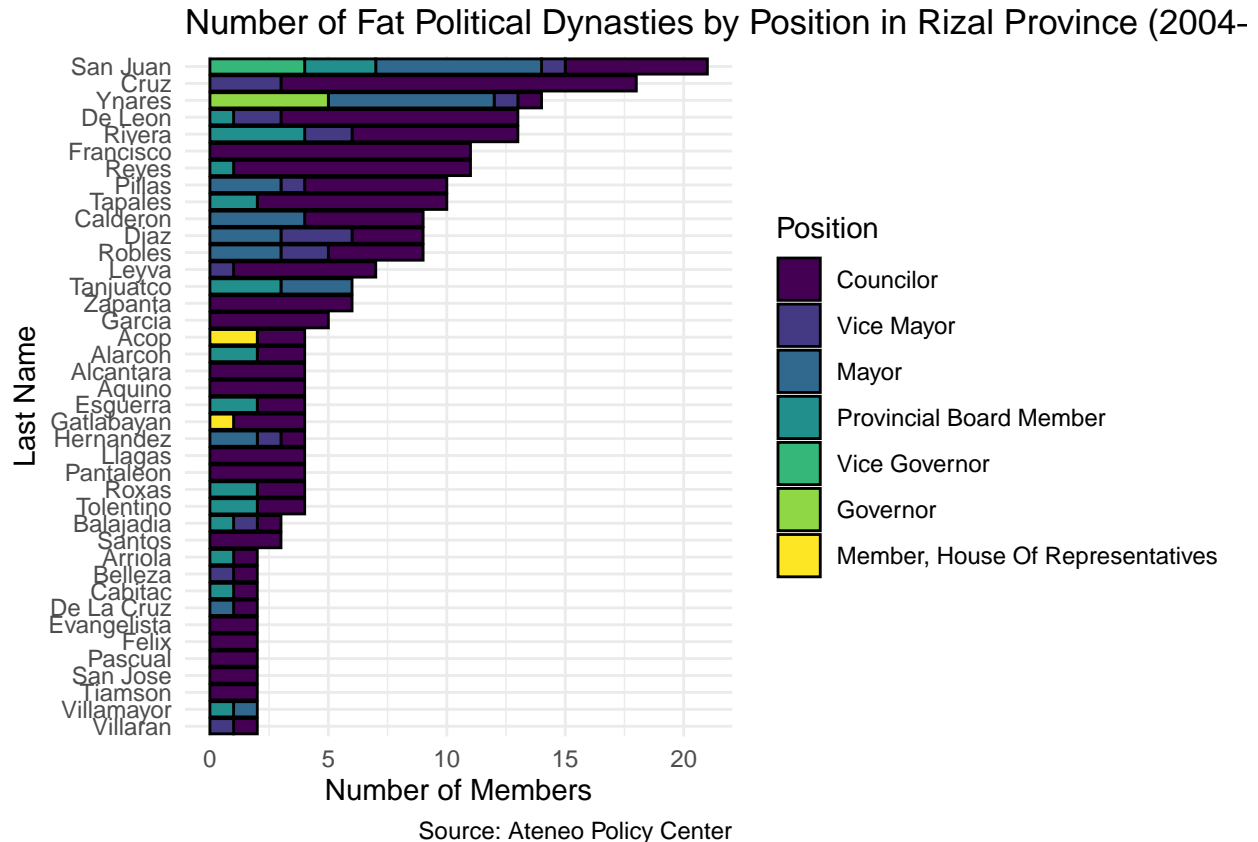
```
dynasty <- dynasty %>%
  mutate(Position = fct_relevel(Position,
                                "Councilor",
                                "Vice Mayor",
                                "Mayor",
                                "Provincial Board Member",
                                "Vice Governor",
                                "Member, House of Representatives",
                                "Governor",
                                ))
```

```
## Warning: There was 1 warning in 'mutate()'.
## i In argument: 'Position = fct_relevel(...)'.
```

## Caused by warning:

```
## ! 1 unknown level in 'f': Member, House of Representatives
```

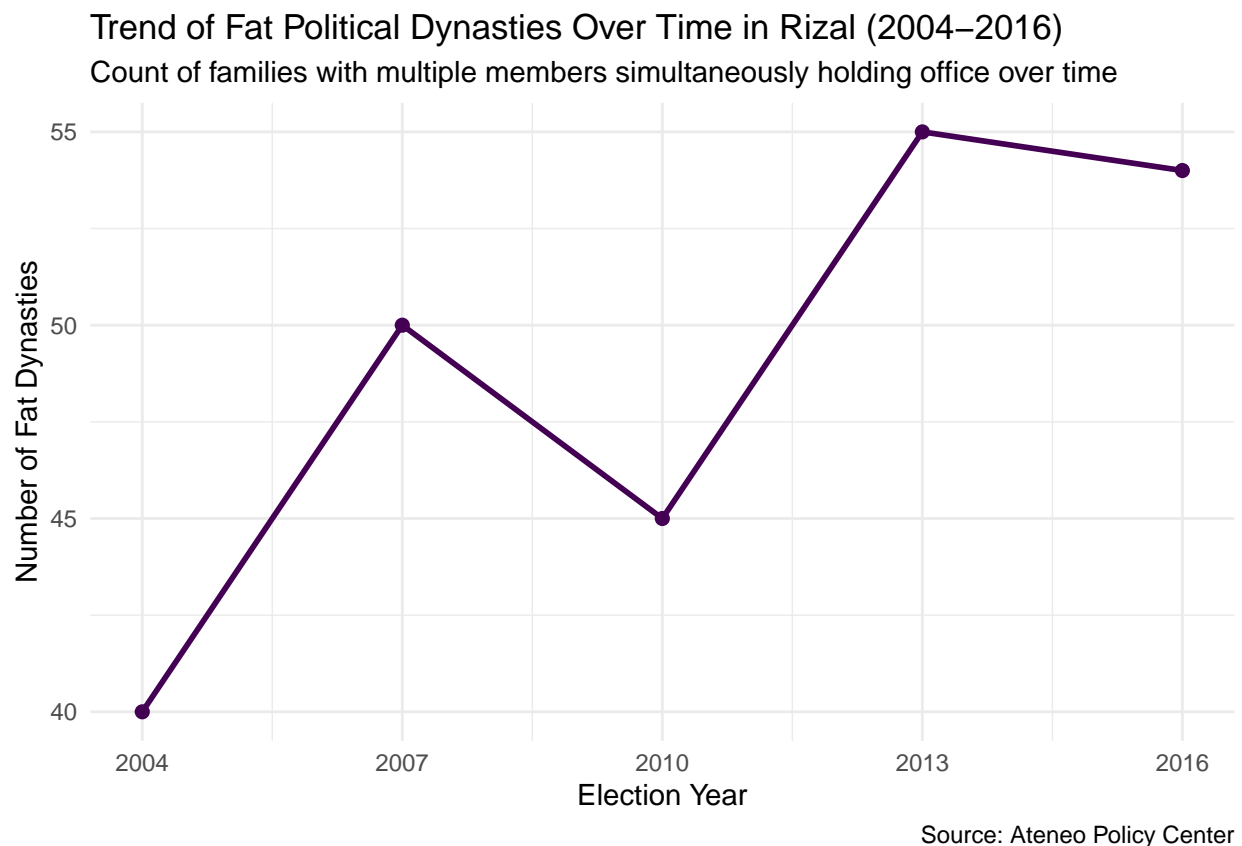
```
dynasty %>%
  filter(Province == "RIZAL", fat == 1) %>%
  ggplot(aes(x = after_stat(count), y = fct_rev(fct_infreq(`Last Name`)), fill = Position)) +
  geom_bar(stat = "count", position = "stack", color = "black") +
  labs(
    title = "Number of Fat Political Dynasties by Position in Rizal Province (2004-2016)",
    x = "Number of Members",
    y = "Last Name",
    caption = "Source: Ateneo Policy Center"
  ) +
  theme_minimal() +
  scale_fill_viridis_d()
```



```
dynasty %>%
  filter(Province == "RIZAL", fat == 1) %>%
  group_by(Year) %>%
  summarise(Dynasty_Count = n()) %>%
  ungroup() %>%
  ggplot(aes(x = Year, y = Dynasty_Count)) +
  geom_line(color = "#440154FF", size = 1) +
```

```
geom_point(color = "#440154FF", size = 2) +
labs(
  title = "Trend of Fat Political Dynasties Over Time in Rizal (2004-2016)",
  subtitle = "Count of families with multiple members simultaneously holding office over time",
  x = "Election Year",
  y = "Number of Fat Dynasties",
  caption = "Source: Ateneo Policy Center"
) +
scale_x_continuous(breaks = unique(dynasty$Year)) +
scale_color_viridis_d() +
theme_minimal()
```

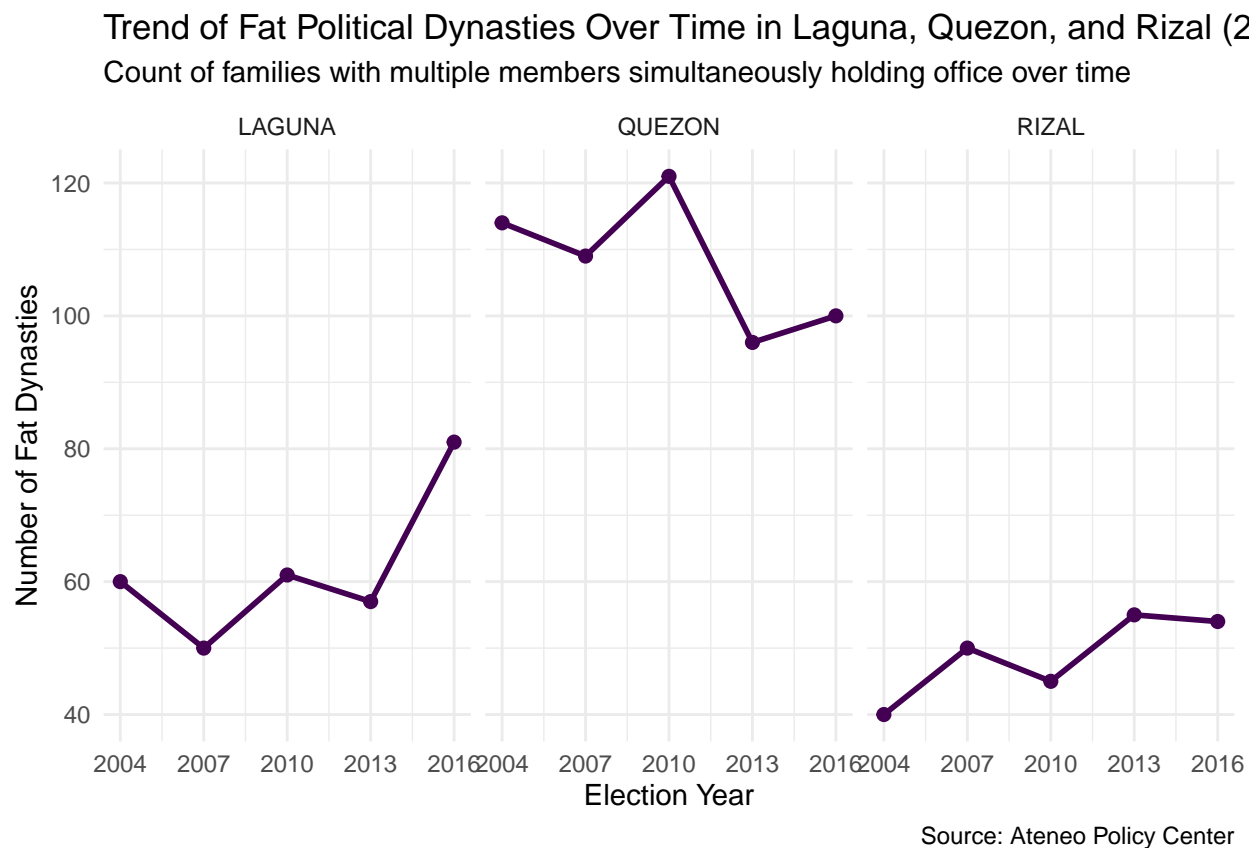
```
## Warning: Using 'size' aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use 'linewidth' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```



```
dynasty %>%
  filter(Province %in% c("RIZAL", "LAGUNA", "QUEZON"), fat == 1) %>%
  group_by(Year, Province) %>%
  summarise(Dynasty_Count = n()) %>%
  ungroup() %>%
  ggplot(aes(x = Year, y = Dynasty_Count)) +
```

```
geom_line(color = "#440154FF", size = 1) +
geom_point(color = "#440154FF", size = 2) +
labs(
  title = "Trend of Fat Political Dynasties Over Time in Laguna, Quezon, and Rizal (2004-2016)",
  subtitle = "Count of families with multiple members simultaneously holding office over time",
  x = "Election Year",
  y = "Number of Fat Dynasties",
  caption = "Source: Ateneo Policy Center"
) +
scale_x_continuous(breaks = unique(dynasty$Year)) +
scale_color_viridis_d() +
theme_minimal() +
facet_wrap(~Province, nrow = 1)
```

## 'summarise()' has grouped output by 'Year'. You can override using the  
## '.groups' argument.

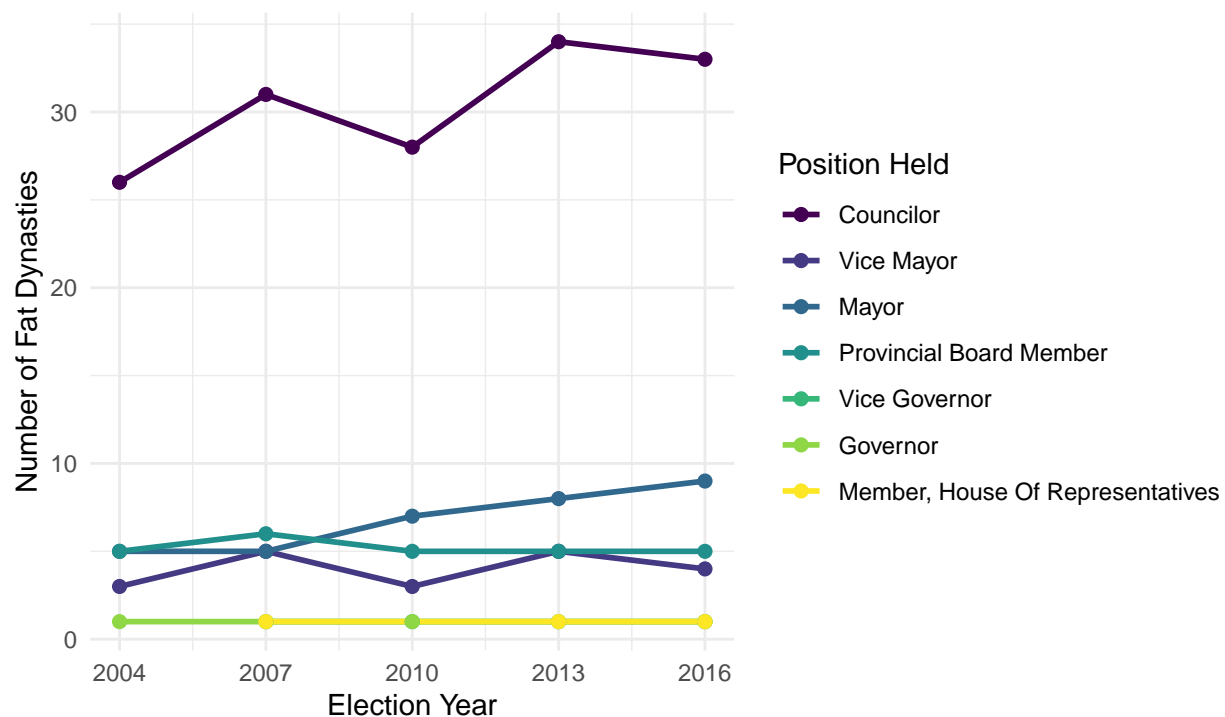


```
dynasty %>%
  filter(Province == "RIZAL", fat == 1) %>%
  group_by(Year, Position) %>%
  summarise(fat_count = n(), .groups = 'drop') %>%
  ggplot(aes(x = Year, y = fat_count, color = Position)) +
  geom_line(size = 1) +
  geom_point(size = 2) +
```

```
scale_color_viridis_d() +
labs(
  title = "Trend of Fat Political Dynasties in Rizal by Position (2004-2016)",
  subtitle = "Count of families with multiple members simultaneously holding office over time",
  x = "Election Year",
  y = "Number of Fat Dynasties",
  color = "Position Held",
  caption = "Source: Ateneo Policy Center"
) +
scale_x_continuous(breaks = unique(dynasty$Year)) +
theme_minimal()
```

## Trend of Fat Political Dynasties in Rizal by Position (2004–2016)

Count of families with multiple members simultaneously holding office over time



Source: Ateneo Policy Center

```
dynasty %>%
  filter(Province %in% c("RIZAL", "LAGUNA", "QUEZON"), fat == 1) %>%
  group_by(Year, Position, Province) %>%
  summarise(fat_count = n(), .groups = 'drop') %>%
  ggplot(aes(x = Year, y = fat_count, color = Position)) +
  geom_line(size = 1) +
  geom_point(size = 2) +
  scale_color_viridis_d() +
  labs(
    title = "Trend of Fat Political Dynasties by Position in Laguna, Quezon, and Rizal (2004-2016)",
    subtitle = "Count of families with multiple members simultaneously holding office over time",
    x = "Election Year",
    y = "Number of Fat Dynasties",
```

```

color = "Position Held",
caption = "Source: Ateneo Policy Center"
) +
scale_x_continuous(breaks = unique(dynasty$Year)) +
theme_minimal() +
facet_wrap(~Province, nrow = 1)

```

Trend of Fat Political Dynasties by Position in Laguna, Quezon, and Rizal (2004-2016)  
 Count of families with multiple members simultaneously holding office over time

