

Dynasty

RB Raya

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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",
                                ))
```

```

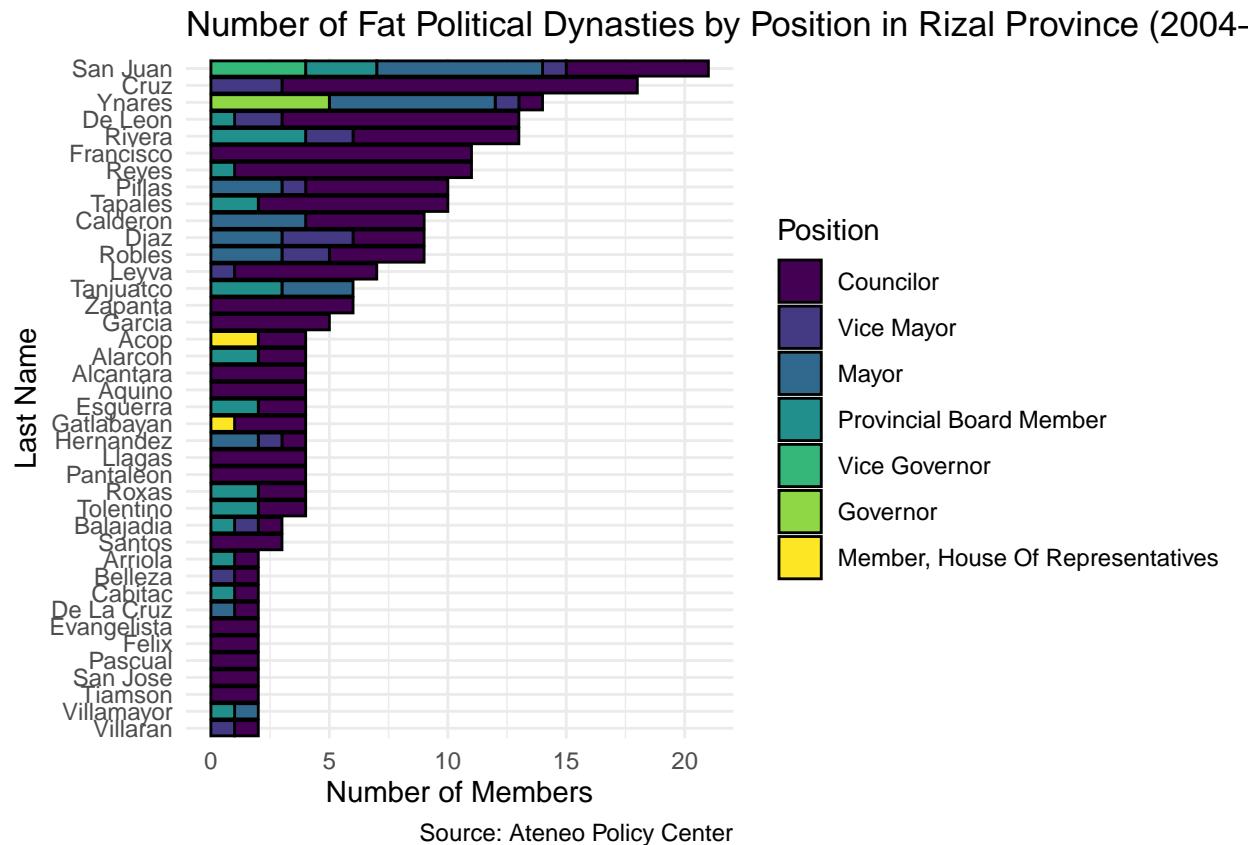
## Warning: There was 1 warning in 'mutate()'.
## i In argument: 'Position = fct_relevel(...)'.
## Caused by warning:
## ! 1 unknown level in 'f': Member, House of Representatives

```

```

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()

```

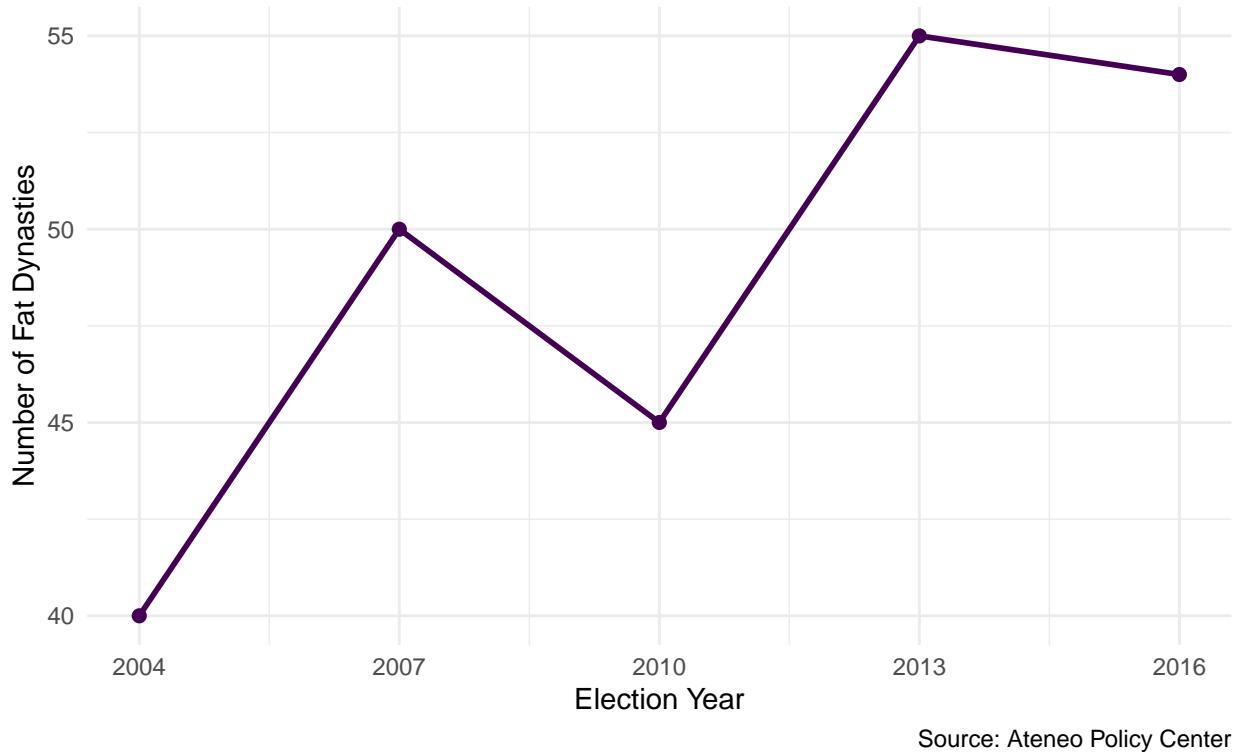
```

## 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.

```

Trend of Fat Political Dynasties Over Time in Rizal (2004–2016)

Count of families with multiple members simultaneously holding office over time



```

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)) +

```

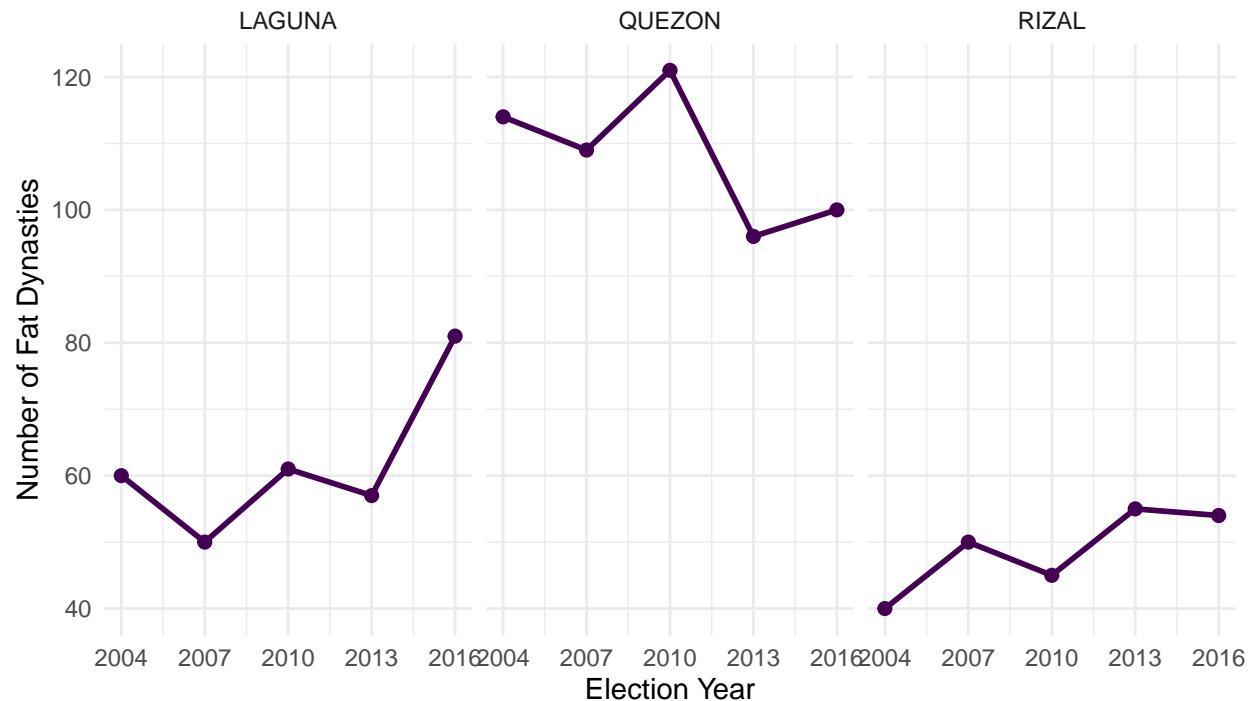
```

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.

Trend of Fat Political Dynasties Over Time in Laguna, Quezon, and Rizal (2 Count of families with multiple members simultaneously holding office over time



Source: Ateneo Policy Center

```

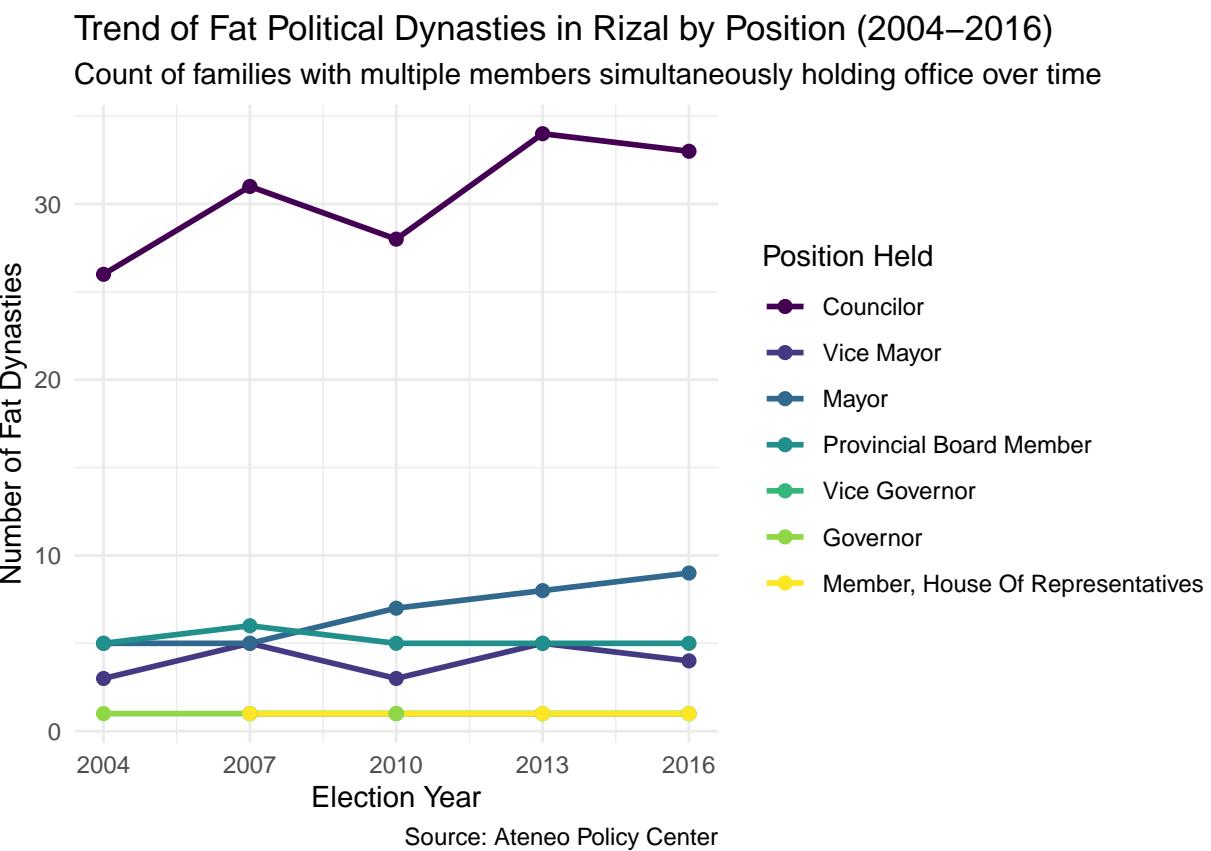
dynasty %>%
  filter(Province == "RIZAL", fat == 1) %>%
  group_by(Year, Position) %>%
  summarise(fat_count = n(), .groups = 'drop') %>%
  ggplot(aes(x = Year, y = fat_count, color = Position)) +
  geom_line(size = 1) +
  geom_point(size = 2) +

```

```

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()

```



```

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"
  )

```

```

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

