

P8105_hw4_km3304

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10/26/2017

```
# clean pols-month data set

pols_month = read_csv(file = "./fivethirtyeight_datasets/pols-month.csv") %>%
  clean_names() %>%
  # change day of month to first day
  mutate(mon = lubridate::floor_date(mon, unit = "month")) %>%
  separate(mon, into= c("year", "month", "day"),
           sep = "-", convert = TRUE) %>%
  arrange(year, month) %>%
  mutate(month = month.name[month]) %>%
  #recode president data
  mutate (prez_dem = recode(prez_dem, '1' = "dem", '0' = "gop")) %>%
  mutate (prez_gop = recode(prez_gop, '0' = "dem", '1' = "gop", '2' = "gop"))

## Parsed with column specification:
## cols(
##   mon = col_date(format = ""),
##   prez_gop = col_integer(),
##   gov_gop = col_integer(),
##   sen_gop = col_integer(),
##   rep_gop = col_integer(),
##   prez_dem = col_integer(),
##   gov_dem = col_integer(),
##   sen_dem = col_integer(),
##   rep_dem = col_integer()
## )

# select and arrange information
pols_month <- select(pols_month, -prez_gop, -prez_dem, -day) %>%
  select(year, month, everything())

#clean GDP data set, arrange by year, month, and change month from numeric to names

GDP = read_csv(file = "./fivethirtyeight_datasets/GDP.csv") %>%
  clean_names() %>%
  separate(date, into= c("year", "month", "day"),
           sep = "-", convert = TRUE) %>%
  arrange(year, month) %>%
  mutate(month = month.name[month])

## Parsed with column specification:
## cols(
##   DATE = col_date(format = ""),
##   VALUE = col_character()
## )

is.na(GDP) <- GDP == "." # change "." to NA
```

```
# merge datasets
```

```
data_538 = left_join(pols_month, GDP)
```

```
## Joining, by = c("year", "month")
```

The collaborator will create a plot showing the GDP value over time, including the party of the president in an informative aesthetic.

The R Markdown document in your GitHub repository should produce a file including code and text that explains the analyses and results for this problem.