Parliament Dot Plots

Zoe Meers 22/05/2018

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  EU, France, United States, and so on.....
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  knitr::opts_chunk$set(echo = TRUE, warning=FALSE)
source("geom_parliament_dots.R")
source("scale_colours_parties.R")
load("election data.rda")
library(ggparliament)
library(tidyverse)
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
## Warning: package 'tibble' was built under R version 3.4.3
## Warning: package 'tidyr' was built under R version 3.4.3
## Warning: package 'purrr' was built under R version 3.4.2
## Warning: package 'dplyr' was built under R version 3.4.2
## Conflicts with tidy packages -----
## filter(): dplyr, stats
## lag():
     dplyr, stats
library(patchwork)
```

Unique parliament layouts:

 $Monkey\ Cage\ article: \ https://www.washingtonpost.com/news/monkey-cage/wp/2017/03/04/these-5-designs-influence-every-level through the second statement of the second stat$

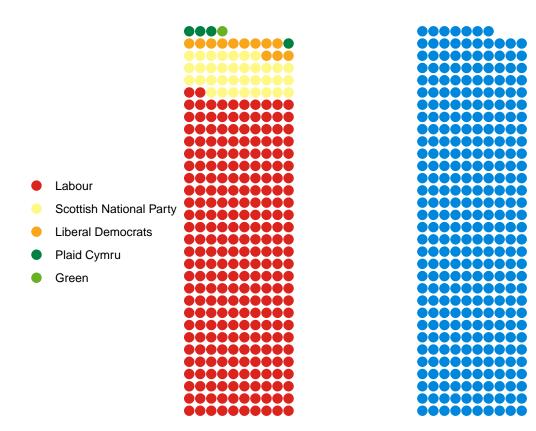
Opposing benches parliament

United Kingdom, Canada

Data

Plot

```
leftside <- ggplot() + geom_parliament_dots(type="opposing_benches", seatspp = ukresults_left$seats, si
rightside <- ggplot() + geom_parliament_dots(type="opposing_benches", seatspp = ukresults_right$seats,
uk_parliament <- combine_opposingbenches(left = leftside, right = rightside)
uk_parliament</pre>
```



Semicircle parliament

EU, France, United States, and so on...

Data

```
americandata <- data(US_congress)
americandata <- US_congress
US_congress1 <- americandata %>%
   filter(start_year=="2017" & chamber=="lower")
US_senate <- americandata %>%
   filter(start_year=="2017" & chamber=="upper")
```

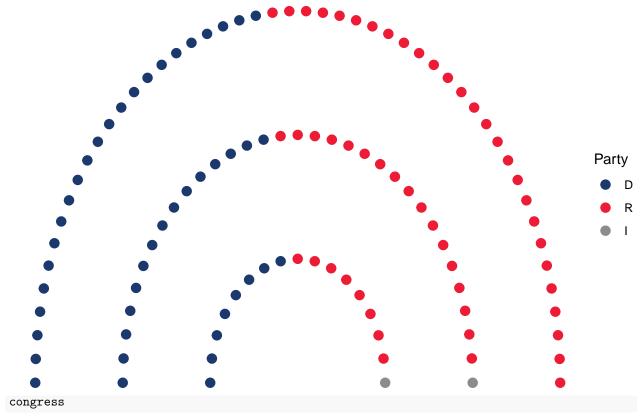
Plot

```
congress <- ggplot() + geom_parliament_dots(type='semicircle', totalseats=sum(US_congress1$seats), parl: #When I write scale_colour_party, Republicans show up as grey. Trying to fix it but in the meantime, th #It works below, however. :\
senate <- ggplot() + geom_parliament_dots(type='semicircle', totalseats=sum(US_senate$seats), parlrows=senate
```

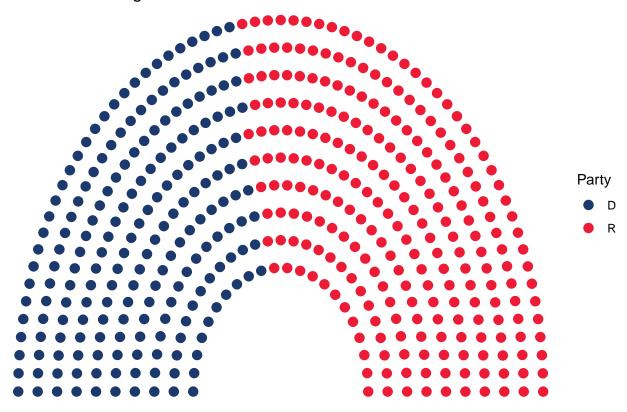
Conservative

NA

United States Senate



United States Congress



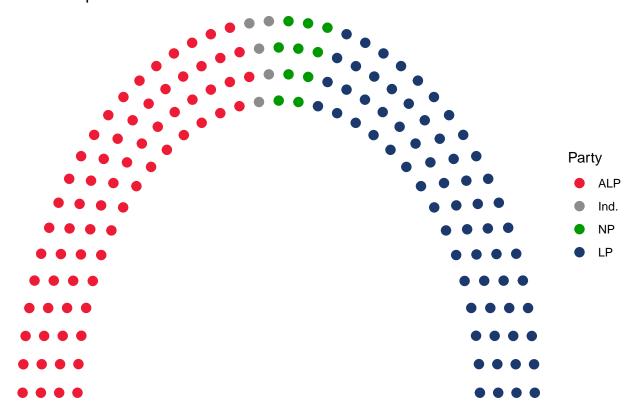
Horseshoe parliament

Australia, New Zealand

Data

```
# load data
AustralianElections <- pscl::AustralianElections</pre>
# filter to 2016, slice percent, total seats
AustralianElections <- AustralianElections %>%
  filter(date == "2016-07-02") %>%
  gather() %>%
  slice(-c(1:3, 8:19))
# reorder rows into parliament layout (i.e. independents in the middle of the circle btwn the two major
AustralianElections <- AustralianElections[c(1, 4, 3, 2), ]
AustralianElections$key <- factor(AustralianElections$key)</pre>
# clean labels
AustralianElections$key <- gsub("Seats", "", AustralianElections$key)
au <- AustralianElections
new_au_data <- parliament_data(data=au, seats=au$value, type='horseshoe')</pre>
au_elections <- election_data %>%
  filter(year==2016 & country=="Australia" & house=="Representatives")
#new_au_data <- parliament_data(data=au_elections, seats=au_elections$seats, type='horseshoe')</pre>
Plot
a <- ggplot() + geom_parliament_dots(type='horseshoe', totalseats=sum(new_au_data$value), parlrows = 4,
```

Horseshoe parliament: Australia



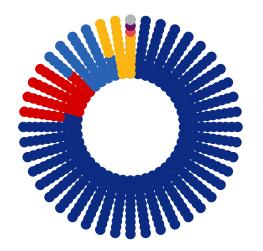
Circle parliament

old German Bundestag (find more modern examples).

```
russia <- election_data %>%
  filter(country=="Russia" & year==2016)

ggplot() + geom_parliament_dots(type="circle", seatspp = russia$seats, size = 3, party_name = russia$party_long)
  scale_colour_manual(values=c(russia$colour), labels=c(russia$party_long), limits=c(russia$party_long)
```

Russian Parliament



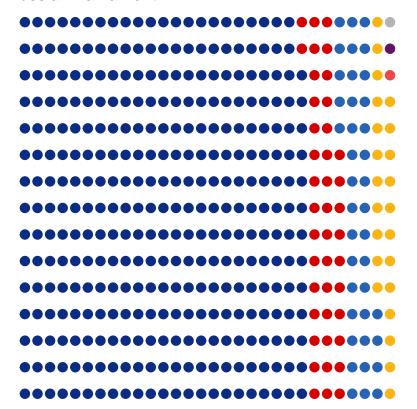
- United Russia
- Communist
- Liberal Democratic Party of Russia
- A Just Russia
- Rodina
- Civic Platform
- Independent

Classroom parliament

China, Russia, North Korea

ggplot() + geom_parliament_dots(type="classroom", seatspp = russia\$seats, size = 3, party_name = russia
scale_colour_manual(values=c(russia\$colour), labels=c(russia\$party_long), limits=c(russia\$party_long)

Russian Parliament



- United Russia
- Communist
- Liberal Democratic Party of Russia
- A Just Russia
- Rodina
- Civic Platform
- Independent