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## **DW-NOMINATE** using ggjoy

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The site for the file downloaded below is https://legacy.voteview.com/dwnomin\_joint\_house\_and\_senate.htm (https://legacy.voteview.com/dwnomin\_joint\_house\_and\_senate.htm)

These plots use common space scores explained on the website.

Notice this is a legacy version of the website, and the dataset doesn't include the 114th Congress

```
library(tidyverse)
```

## Conflicts with tidy packages

## filter(): dplyr, stats ## lag(): dplyr, stats

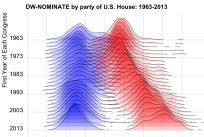
colposi <- c(4, 6, 3, 2, 8, 5, 15, 10, 10, 10, 10, 8, 11, 5, 5, 10)
colnames <- c(\*congress, "icpst", "st\_code", "cd", "st\_name", "party\_code", "sc\_name", "dim\_1", "dim\_2", "dim\_1", "dim\_2", "dim\_1", "dim\_2", "dim\_1", "dim\_2", "dim\_1", "dim\_2", "

## Parad with column specification:
## congress col\_integer(),
## compress col\_integer(),
## st\_code = col\_integer(),
## st\_code = col\_integer(),
## col\_integer(),
## st\_man = col\_character(),
## party\_code = col\_integer(),
## mc\_man = col\_character(),
## dim\_! = col\_double(),
## dim\_! = col\_double(),
## dim\_! = col\_double(),
## dim\_! = col\_double(),
## dim\_! = col\_integer(),
## mm\_votes = col\_integer(),
## mm\_votes = col\_integer(),
## geo\_mean\_prob = col\_double()
## geo\_mean\_prob = col\_double()

all\_bouse 88\_113 <- all\_bouse th filter(congress >= 88 & cd !=0 & cd != 98 & cd != 99 & th filter(party\_code == 100 | party\_code == 200) th arrange(desc(congress)) th mutate(year1 = congress \* 2 + 1787) th arrange(desc(year11)) the congress \* 2 + 1787) th arrange(desc(year11)) the congress \* 2 + 1787) the congress \* 2 + 1787) the congress \* 2 + 1787) the congre ri))

gplot(all\_hous\_8\_113, ass(x = dim\_1, y = year1, group-year1)) +
gsom\_joy(data-filter(all\_house\_8\_113, party\_code==100), scale = 7, size = 0.25, rel\_min\_height = 0.01, f
ill="blue", alpha-0.2) +
geom\_joy(data-filter(all\_house\_8\_113, party\_code==200), scale = 7, size = 0.25, rel\_min\_height = 0.01, f
ill="red", alpha-0.2) +
fthemo\_joy() +
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## Picking joint bandwidth of 0.0446

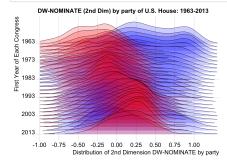


-1.00 -0.75 -0.50 -0.25 0.00 0.25 0.50 0.75 1.00 Distribution of 1st Dimension DW-NOMINATE by party

ggplot(all\_house\_8E\_113, ass(x = dim\_2, y = year1, group=year1)) +
geom joy(data=filter(all\_house\_8E\_113, party\_code==100), scale = 7, size = 0.25, rel\_min\_height = 0.01, fill="b
lev", alpha=0.2)+
geom joy(data=filter(all\_house\_8E\_113, party\_code==200), scale = 7, size = 0.25, rel\_min\_height = 0.01, fill="r
ef\*, alpha=0.2)+
theme\_joy() +
filter(all\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_sell\_nouse\_s

## Picking joint bandwidth of 0.131

## Picking joint bandwidth of 0.092



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