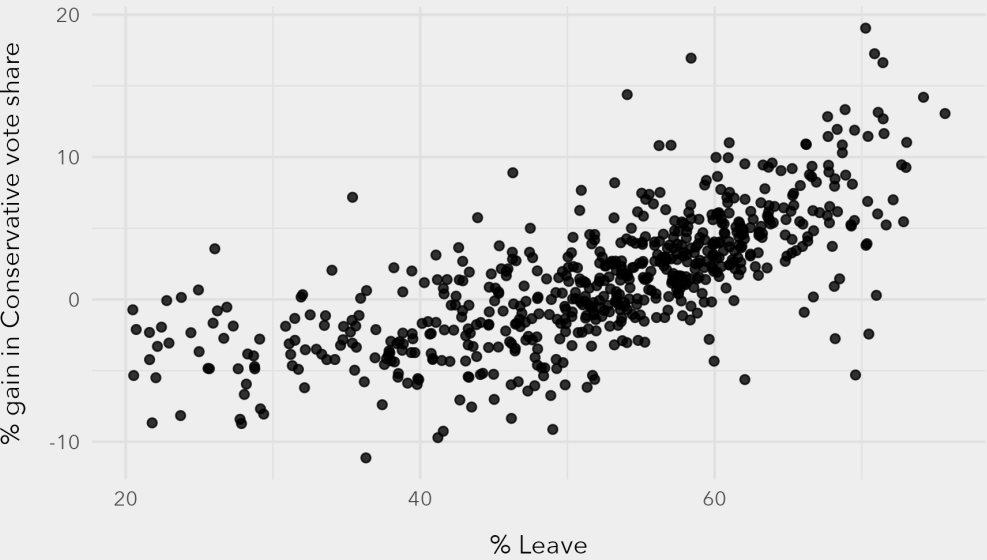


Conservative gain in vote shares by Leave vote (estimated)

-- Constituencies in Great Britain. Gain is vote share shift between 2017-2019 GE

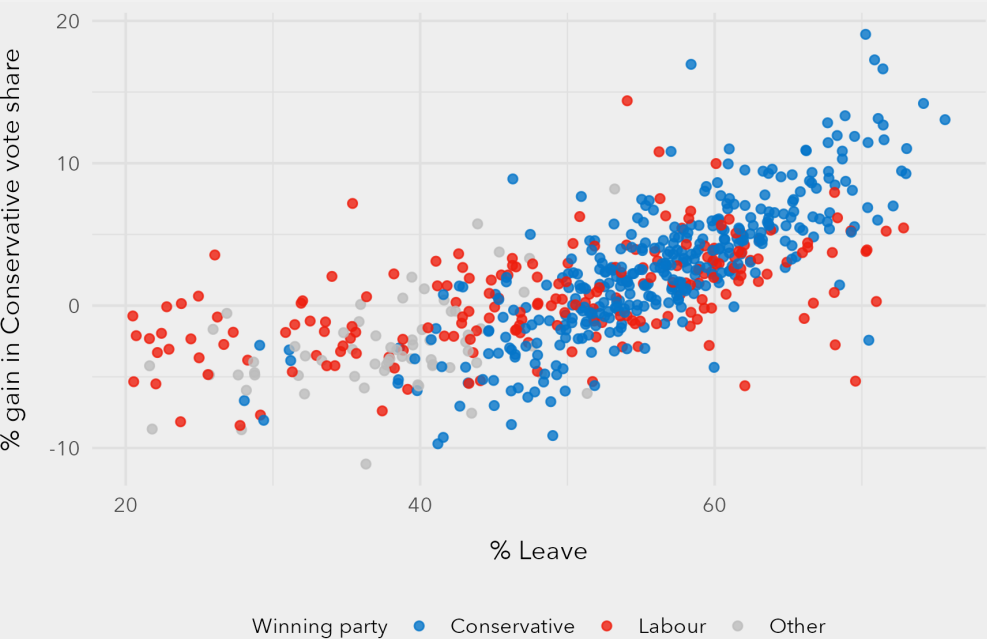


plot grammar -> ggplot2 spec

data types, channels, marks

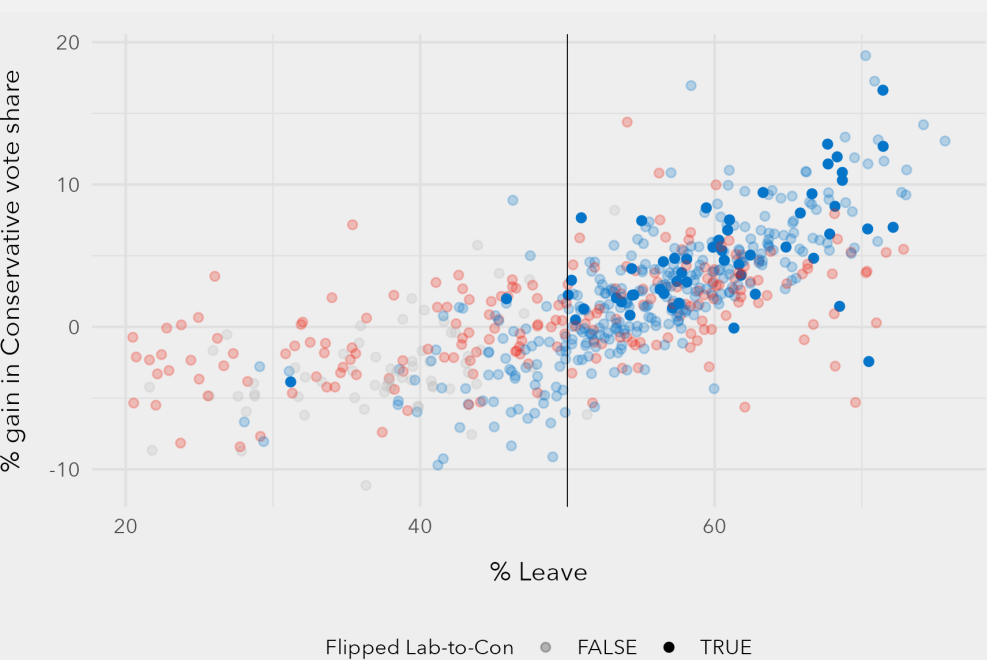
```
leave_hanretty: ratio
con_1719: ratio
leave_hanretty -> x-position
con_1719 -> y-position
mark -> geom_point
```

```
data_ge |>
  ggplot(data=.) +
  geom_point(
    mapping=
      aes(
        x=leave_hanretty,
        y=con_1719
      )
  )
```



```
leave_hanretty: ratio
con_1719: ratio
winning_party: nominal
leave_hanretty -> x-position
con_1719 -> y-position
winning_party -> colour
mark -> geom_point
```

```
data_ge |>
  ggplot(data=.) +
  geom_point(
    mapping=
      aes(
        x=leave_hanretty,
        y=con_1719,
        colour=winning_party
      )
  )
```



```
leave_hanretty: ratio
con_1719: ratio
winning_party: nominal
flipped: ordinal
leave_hanretty -> x-position
con_1719 -> y-position
winning_party -> colour
flipped -> alpha
mark -> geom_point
```

```
data_ge |>
  ggplot(data=.) +
  geom_point(
    mapping=
      aes(
        x=leave_hanretty,
        y=con_1719,
        colour=winning_party,
        alpha=flipped
      )
  )
```