

AGREEMENT GROUPS IN THE  
**UNITED STATES SENATE**

*Adrien Friggeri*

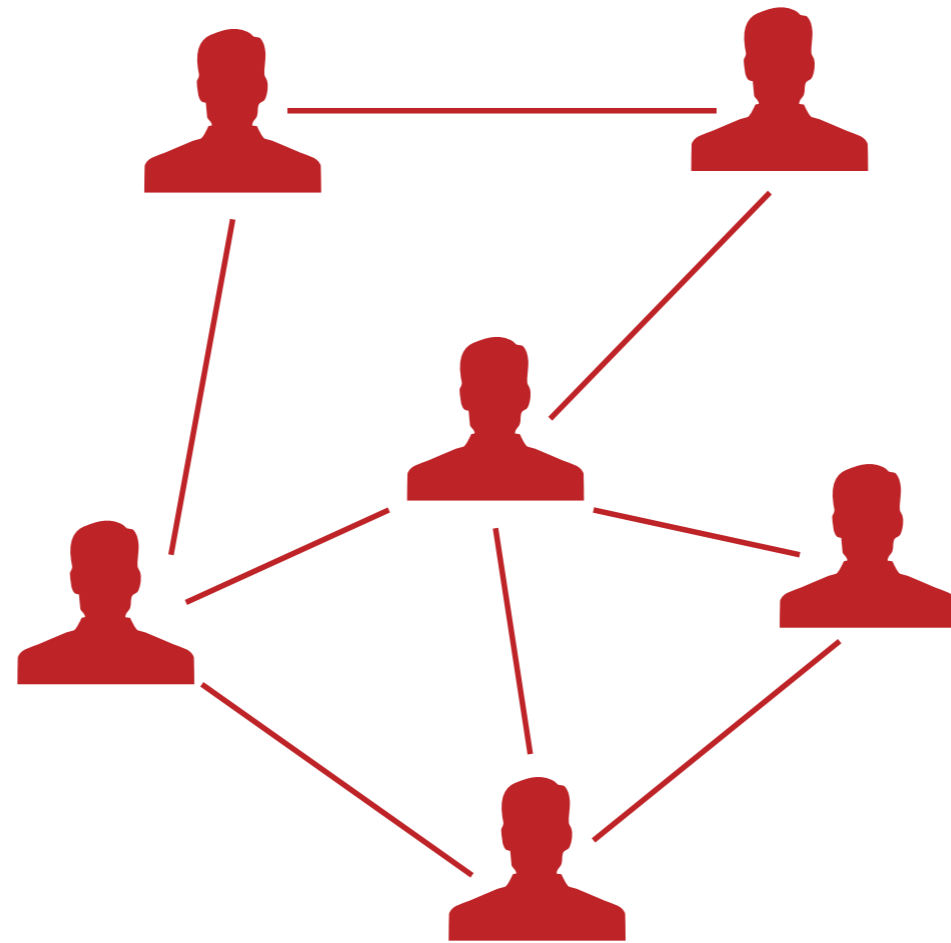
 @qelf

*INRIA DNET / ÉCOLE NORMALE SUPÉRIEURE DE LYON*

Data Scientist  
Social Network Analyst









# The Question

Bipartisanship in the U.S. Congress ?



# The Model

# 112 networks

evolution between sessions

**govtrack.us**

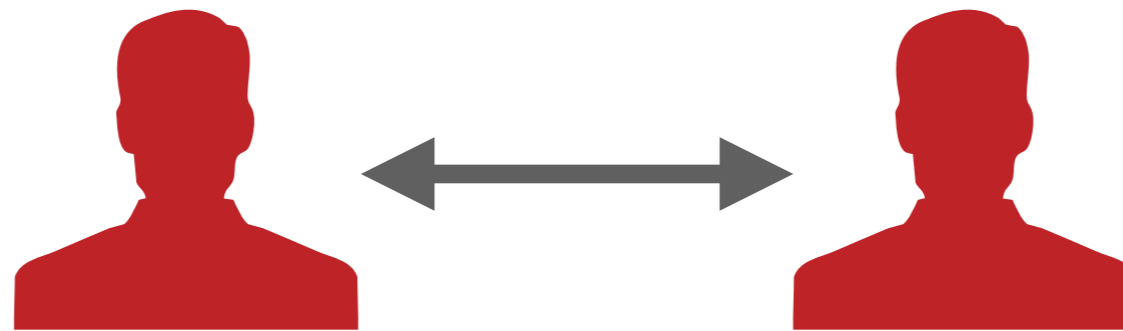
Easily track the activities of  
the United States Congress.



senators



stacked terms:  
continuity

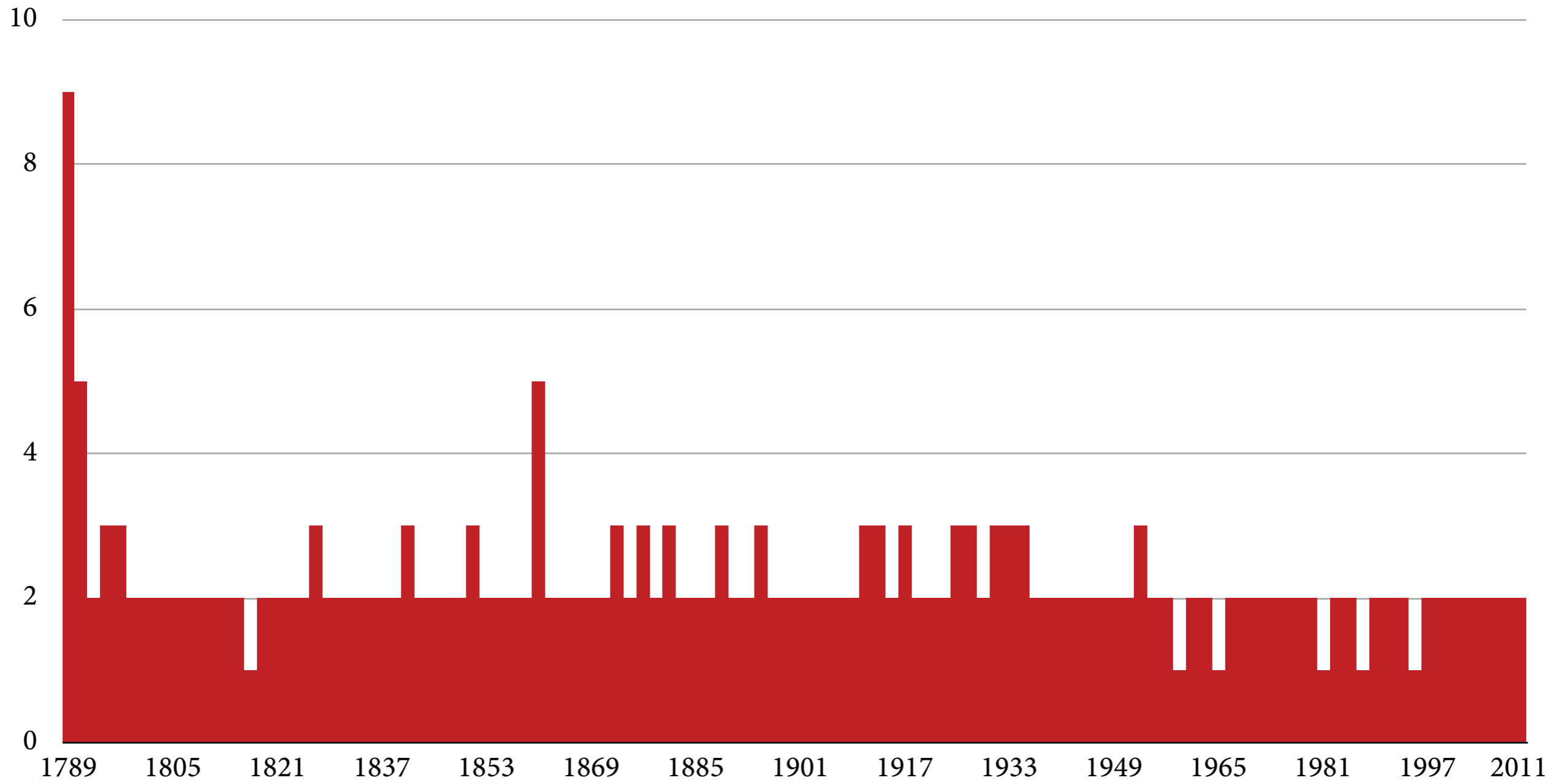


similarity in voting patterns

# The *Analysis*

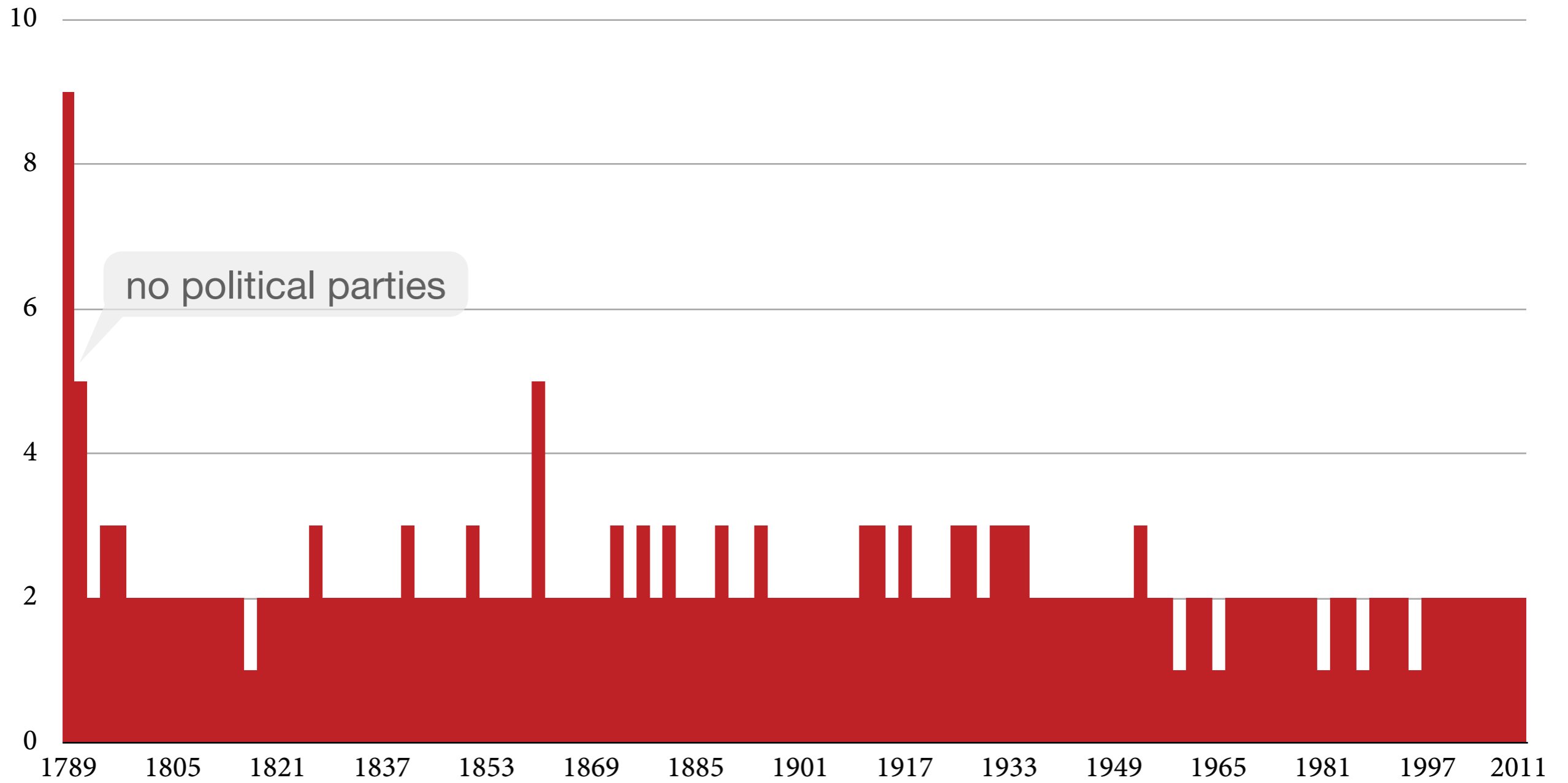
group detection

➔ agreement groups

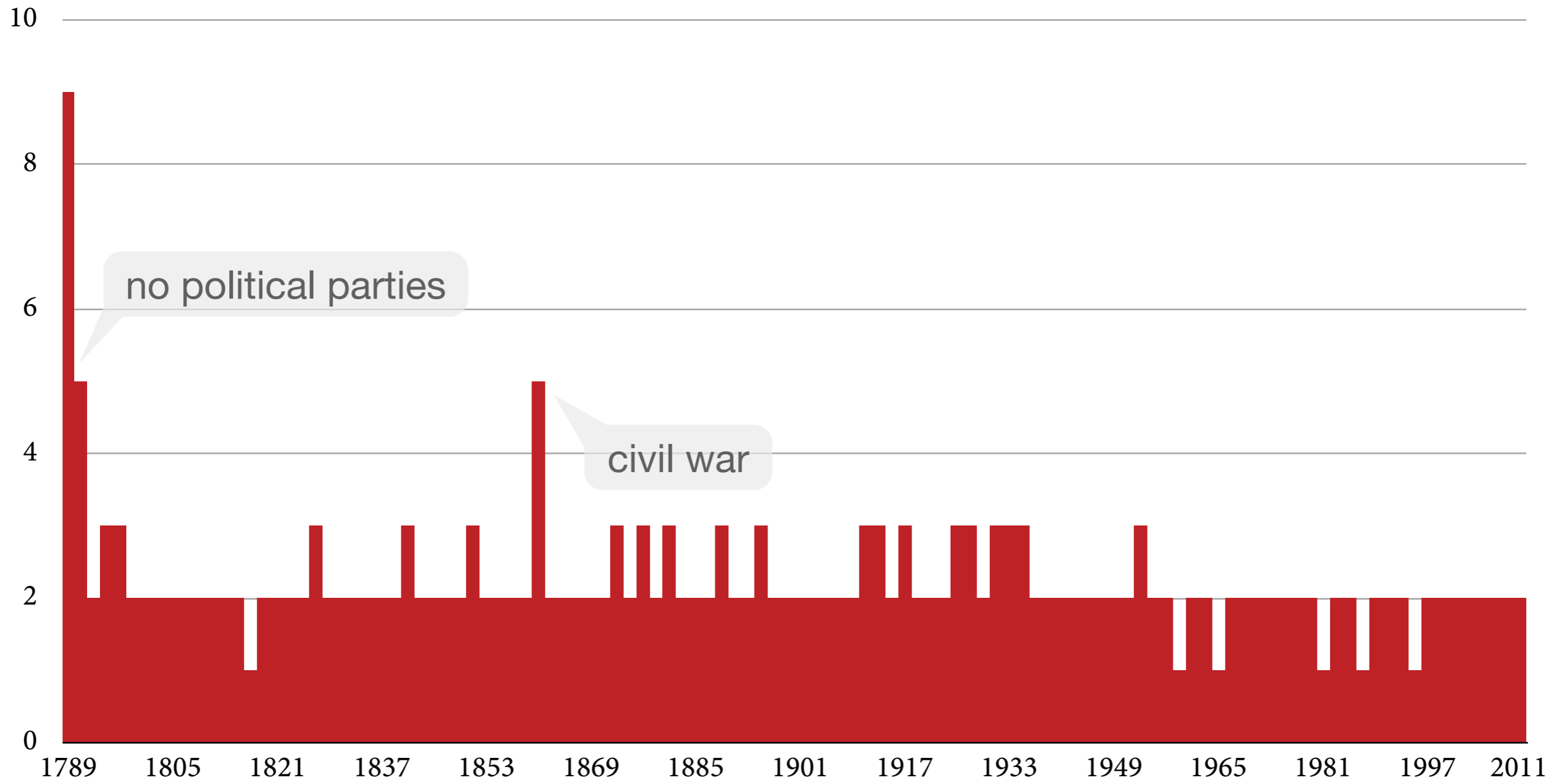


number of groups





number of groups



number of groups

The *majority* of  
groups contain at least

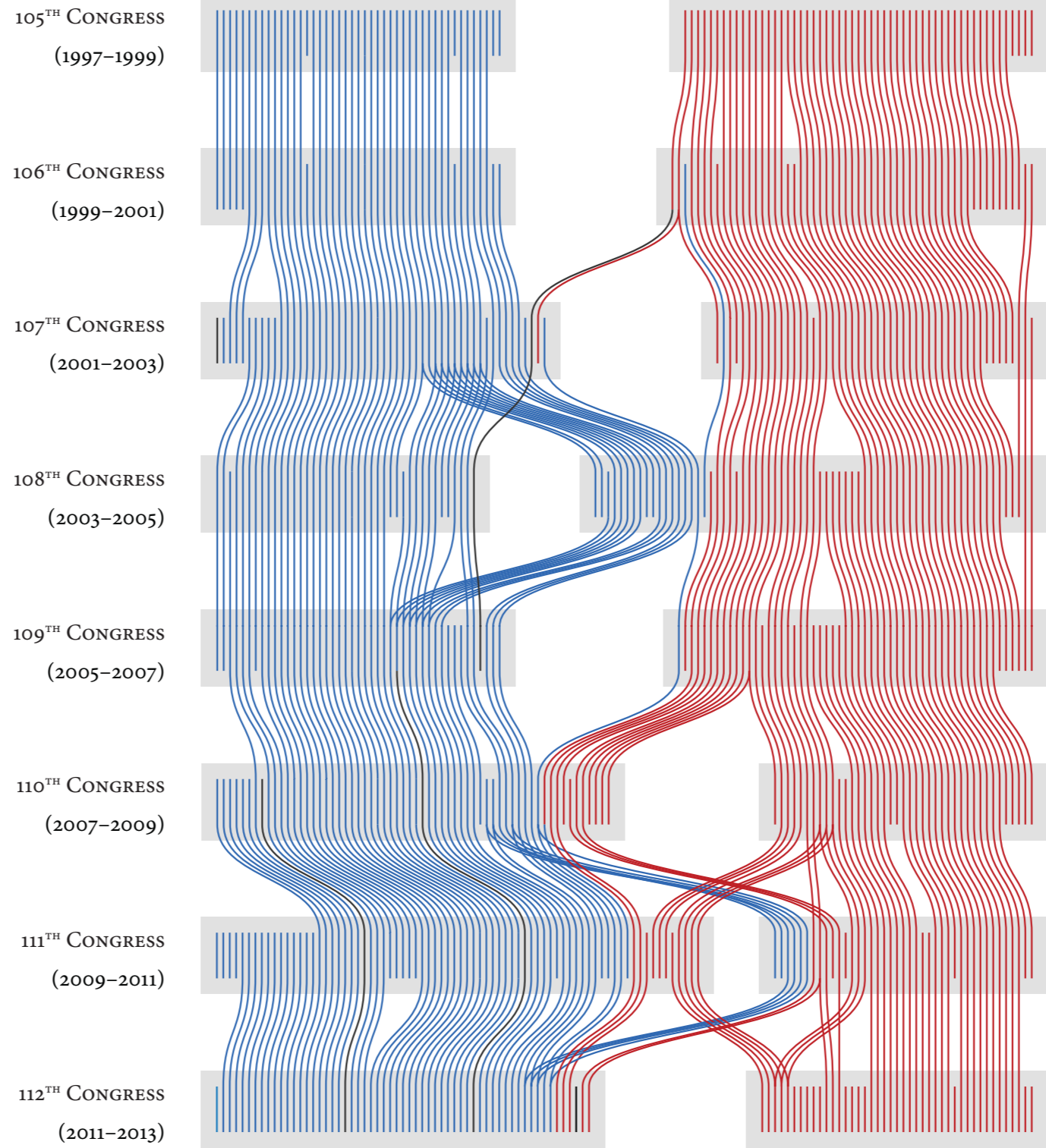
**75%**

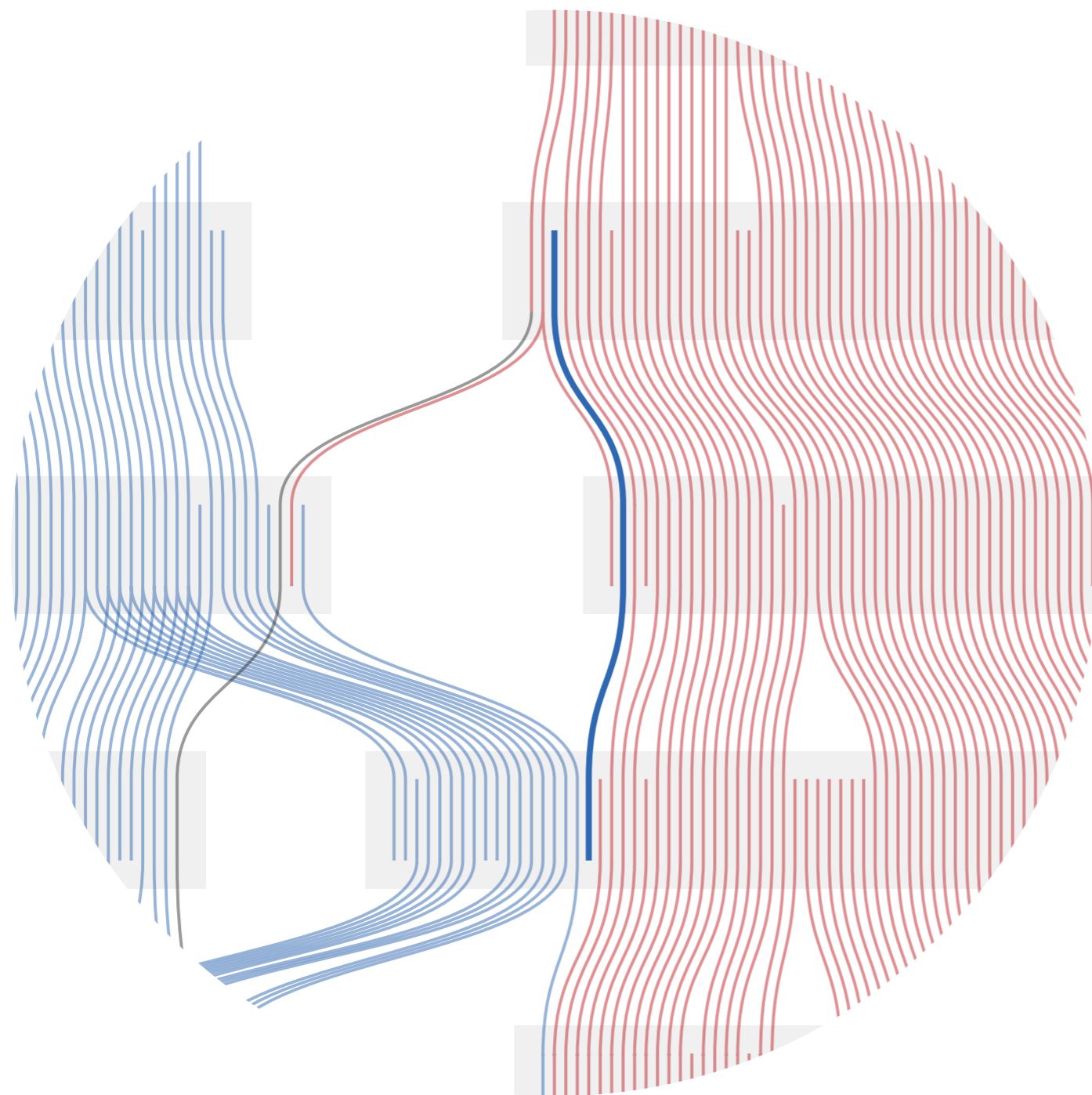
of Senators from  
a *same* party

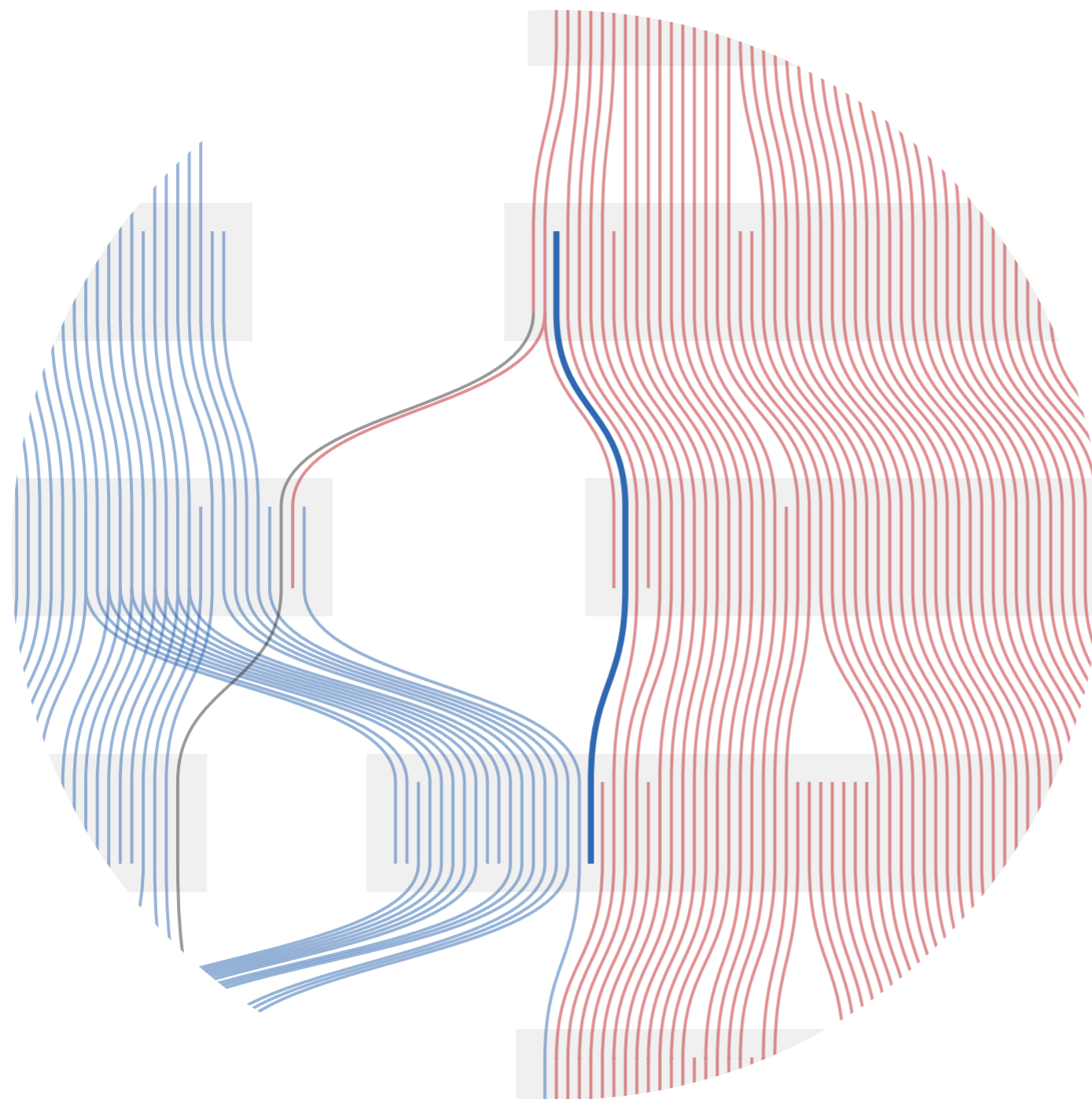
group ~ party

# The Illustration

Democrat      Independent      Republican

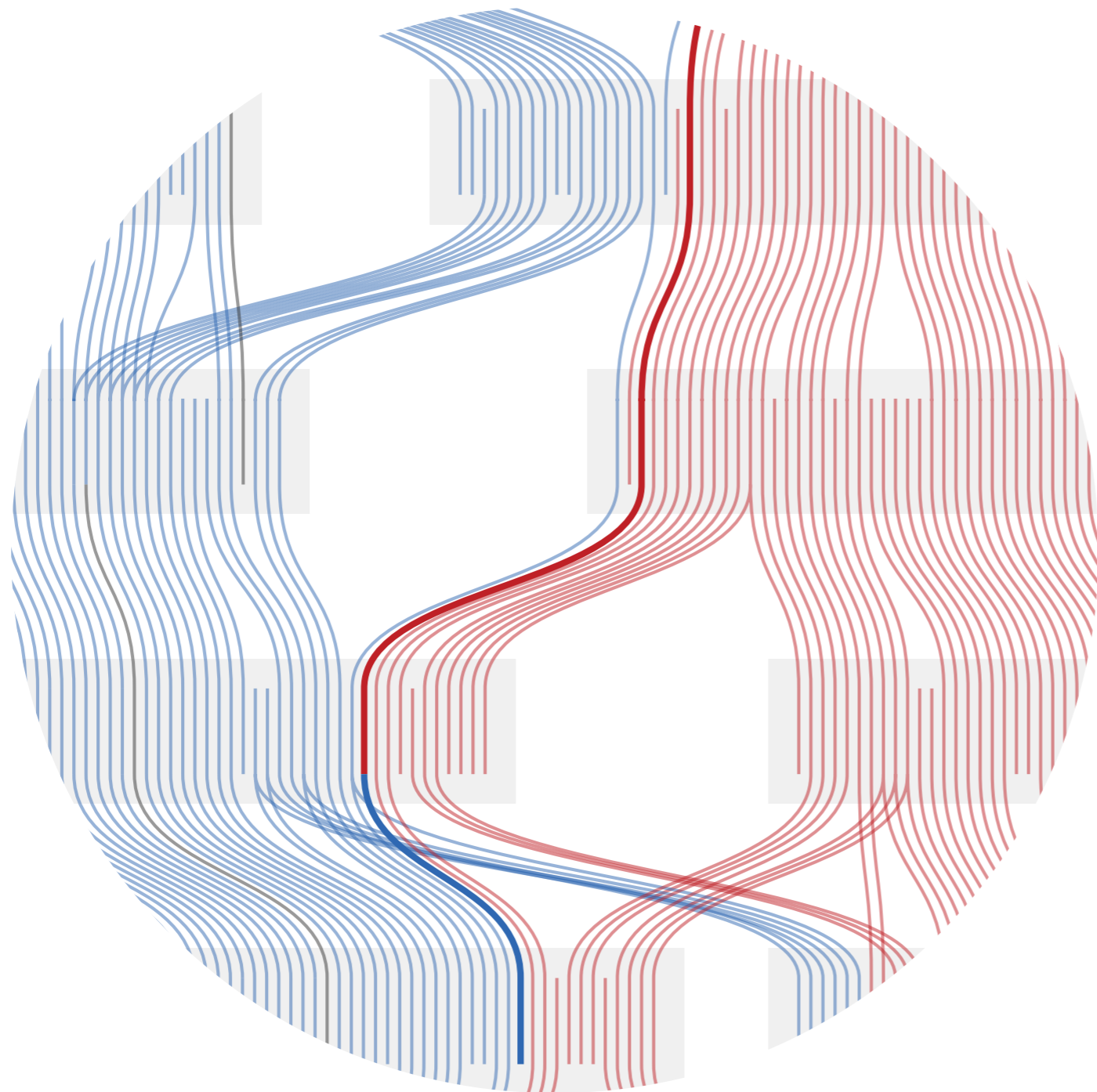


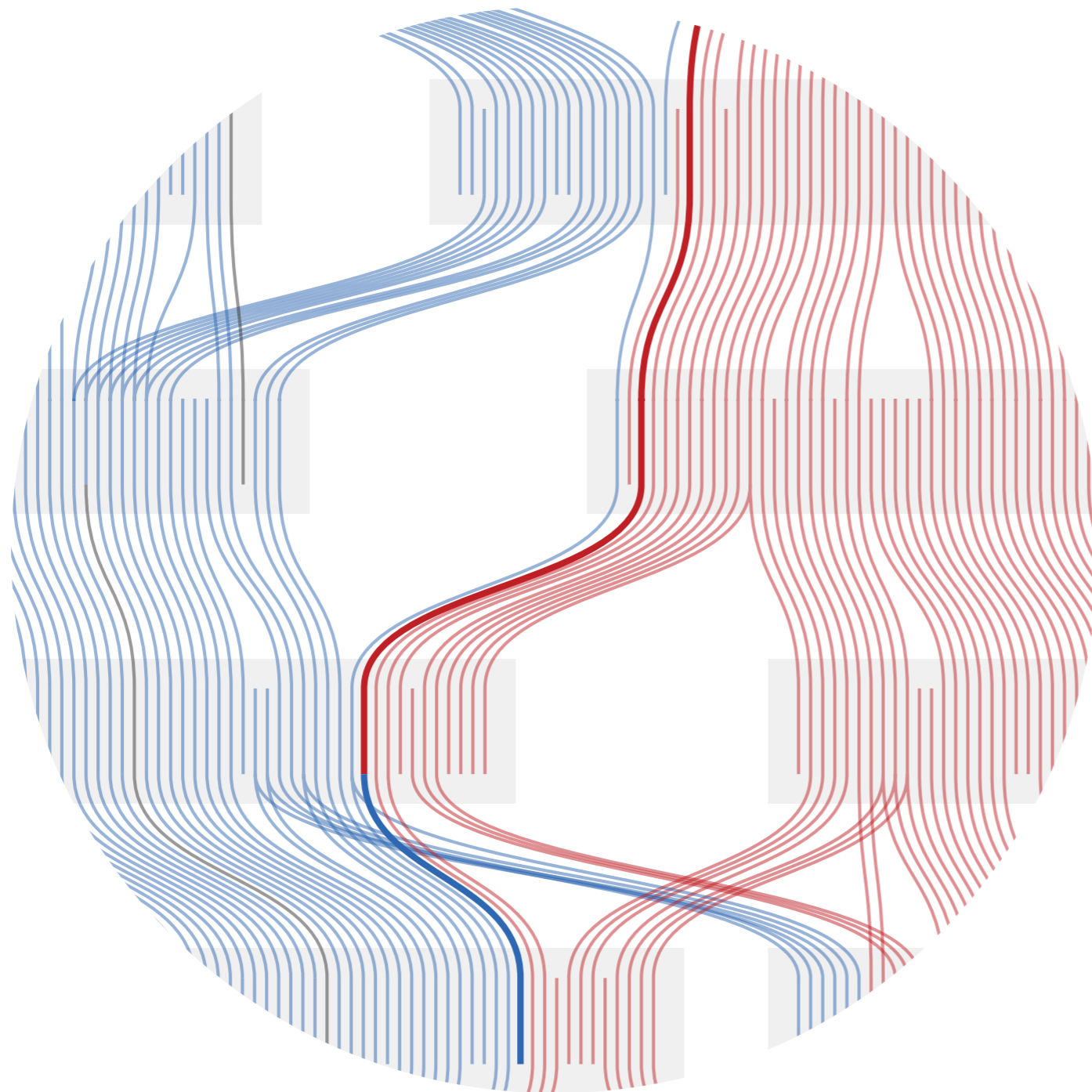




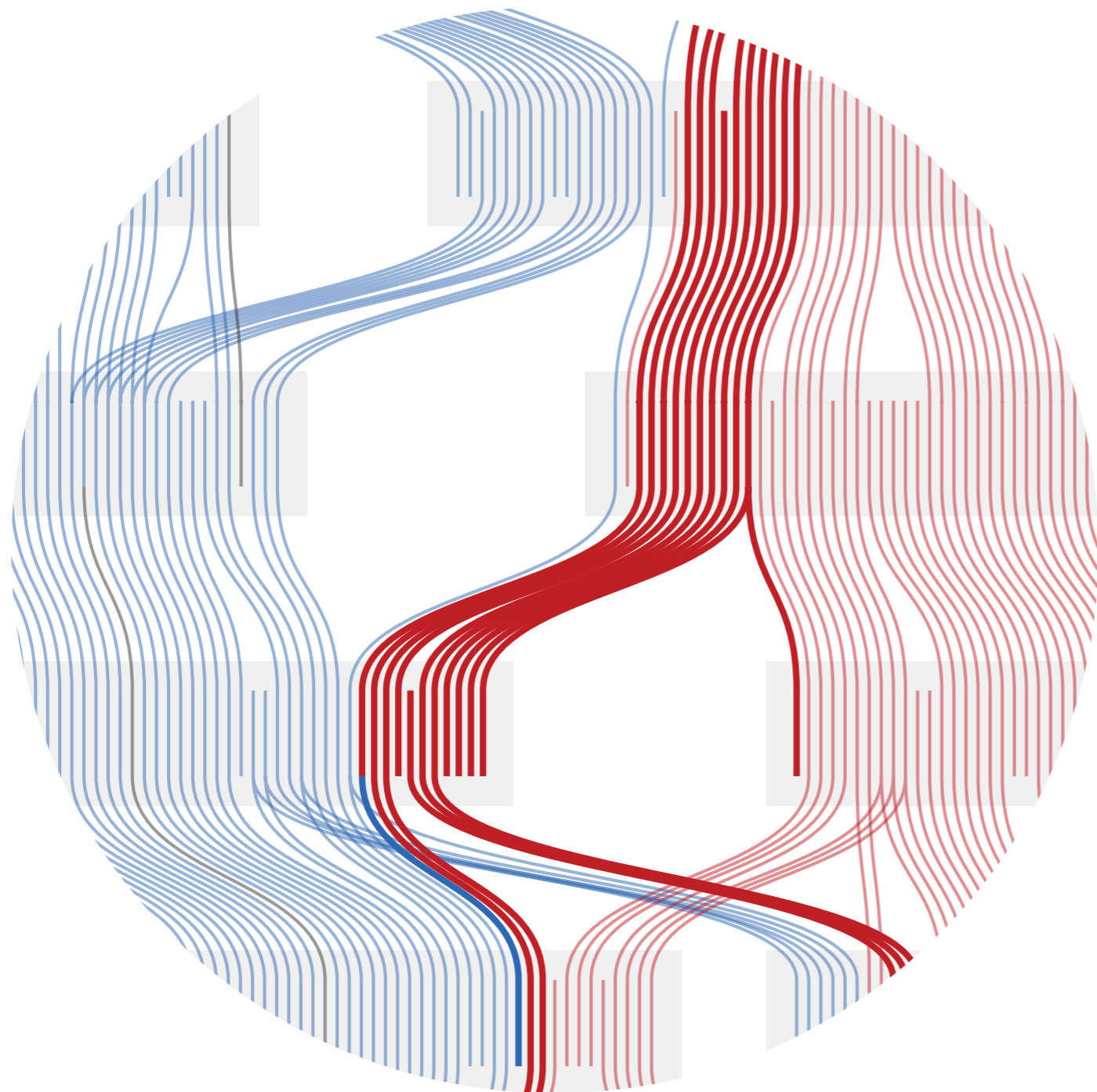
Zell Miller

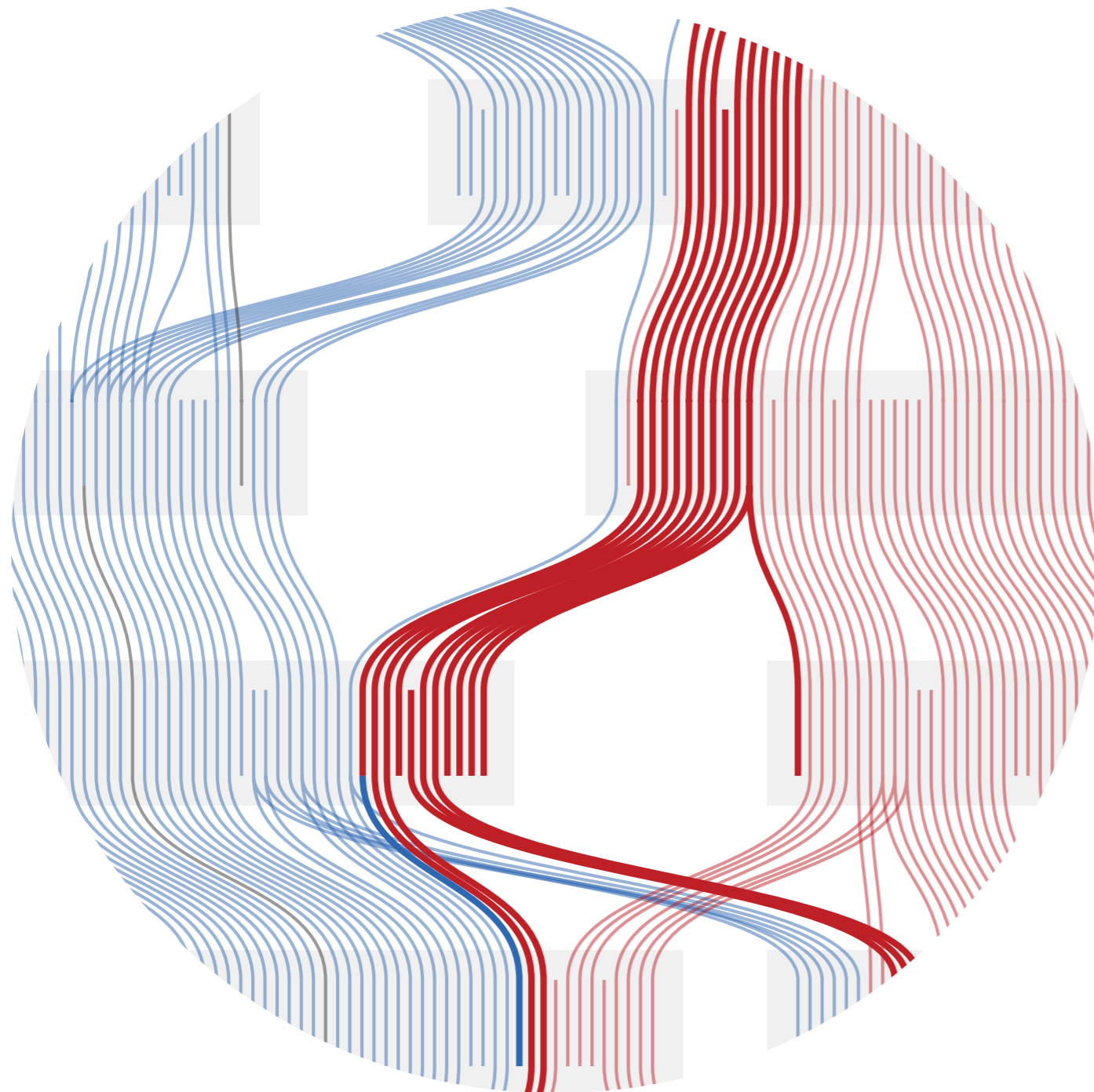






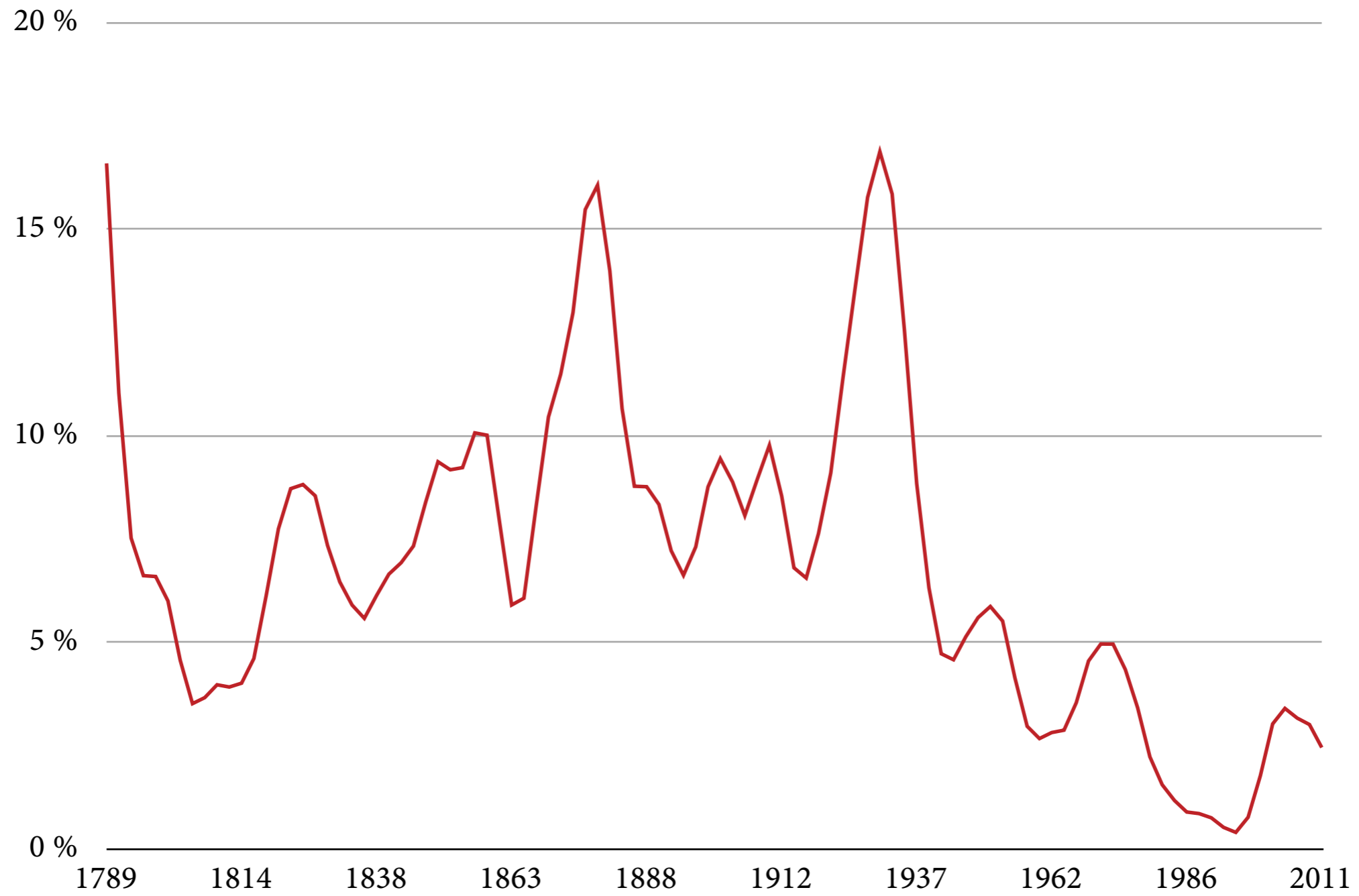
**Arlen Specter**





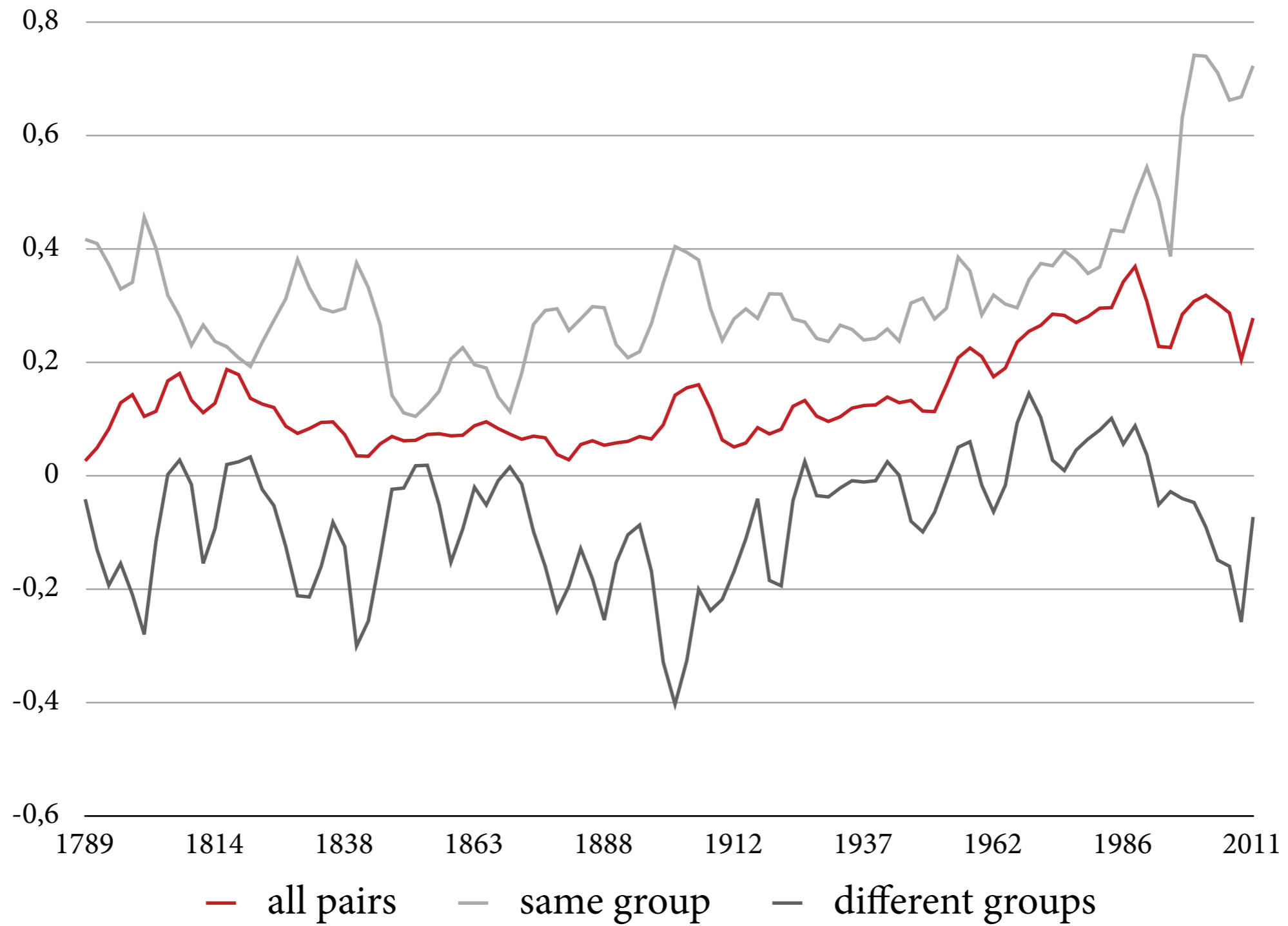
Charles Hagel  
George Voinovich  
John Warner  
Olympia Snowe  
Susan Collins  
Gordon Smith  
Norm Coleman  
Arlen Specter

# The Results



evolution of **overlap**

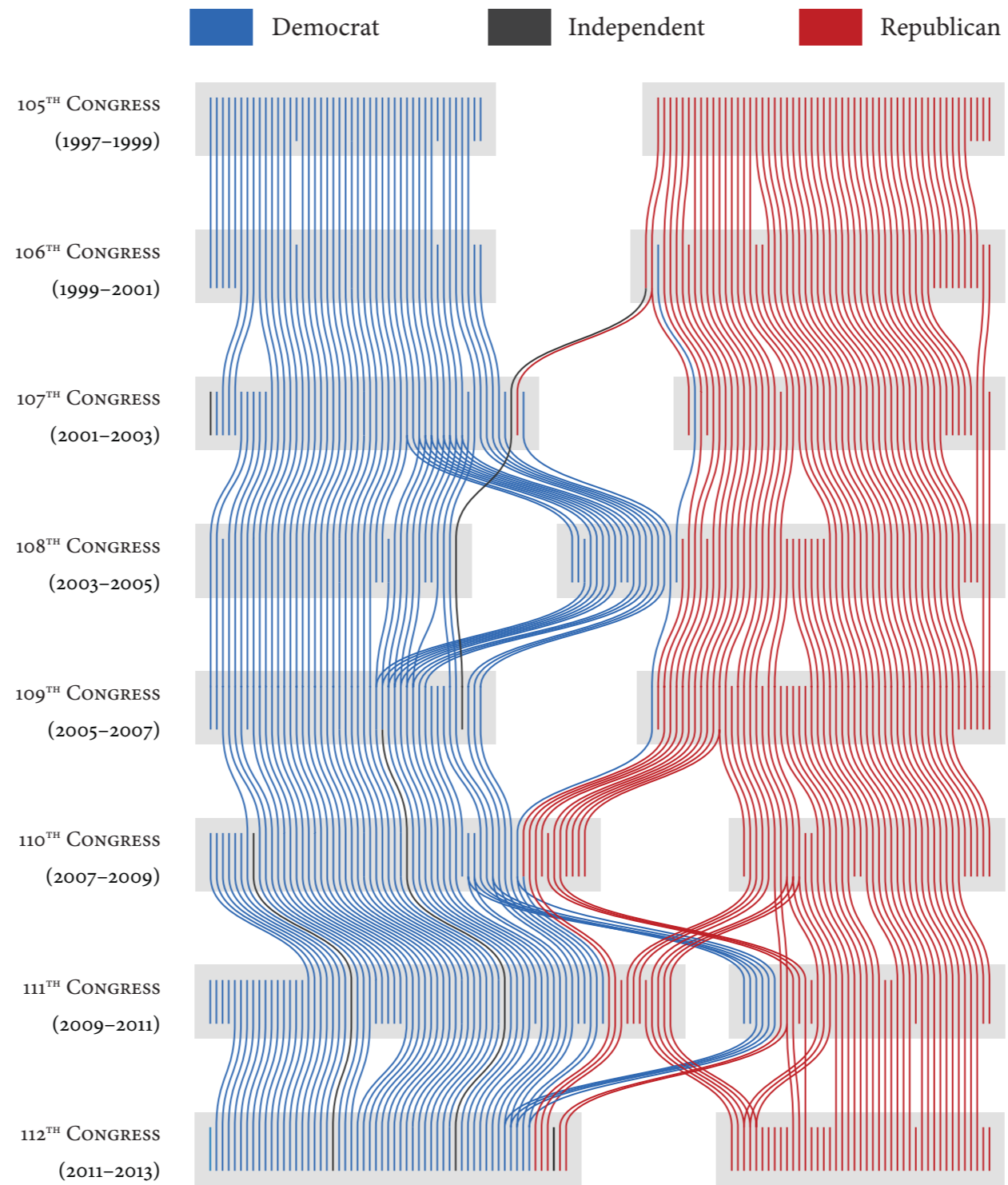
decreasing  
bipartisanship  
since 1930s



evolution of **agreement**



increasing  
antagonism  
since 1990s



<http://friggeri.net/research/senate>

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