Codebook for Donation Network Data

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Contents

1 state_list.csv

CSV that is used to delineate when a full election cycle happens in each state chamber (here a full election cycle means the time period when each legislative seat is up for election at least once.) Each observation is a state-chamber-cycle.

- state.name: The name of the state (all 50 states are included, no DC)
- state.ab: 2 letter state abbreviation
- start.year: The first year of the cycle.
- stop.year: The last year of the cycle (this is the election year).
- leg: Indicates if it is the upper or lower house, 'Senate' is the state upper house, 'House' is the state lower house.

2 Edge Lists (files the start with EL)

Each csv file that starts with EL represents 1 network. Remember, these are not directed networks so sender/receiver are arbitrary. The file name is the format of: EL_[State abbreviation]-[Start of Cycle]-[Election Year]-[Chamber].csv

- node_1: The EID of the sender node.
- node_2: The EID of the receiver node.

- edge: identifies what threshold the edge is for. For robustness there were 5 thresholds estimated: .9, .95, .975, .99, and .995. The number here goes from 1 to 5 and reflects each threshold. For example, if edge is a 3, then it means there was an edge identified between the sender and the receiver at the .975 threshold. When identifying edges you should use all edges at that level and above.

3 Metadata (files the start with MD)

Each csv file that starts with MD contains the node level attributes for a network. EIDs are given to match them. The file name is the format of: MD_[State abbreviation]-[Start of Cycle]-[Election Year]-[Chamber].csv. The other variables are:

- ContributorName: Name of contributor
- CatCodeIndustry: Industry as identified by NIMP
- CatCodeGroup: Group as identified by NIMP
- CatCodeBusiness: Business as identified by NIMP
- PerDem: Percent donated to Democratic candidates that full-cycle
- PerRep: Percent donated to Republican candidates that full-cycle
- DemCol: Color used for nodes based on PerDem
- RepCol: Color used for nodes bad on PerRep
- Total: Total donated that full-cycle.

4 network_stats.csv

Provides state-chamber-full-cycle statistics, such as how central labor unions are to the donor network. This includes a variety of measures to account for the robustness across different levels of backboning.

In addition to having some aggregate data of the network as a whole it provides measures of centrality for different sets of actors within the network. The way this is done is detailed in the article, using the example of labor unions.

In order to identify different sets of groups I coded them based on the coding provided by NIMP. They provide 3 levels of codes: Group, Industry, and Business. Business is the lowest level of categorization (has the most categories) while Group is the highest. The coding is detailed below:

- **Labor Unions**: Donors where Group code is "Labor"
- **Business:** Donors where Business code is "Chambers of commerce", or "Pro-business organizations"

- **Democrat:** Donors where Business code is "Democratic Party committees"
- **Republican:** Donors where Business code is "Republican Party committees"
- **Conservative organizations:** Donors where Business code is one of "Labor, anti-union", "Christian Coalition, religious right", "Fiscal & tax policy", "School Choice Advocates", "Abortion policy, pro-life", "Anti-gun control" or Industry code is "Conservative Policy Organization"
- **Liberal organizations**: Donors where Business code is one of"Drug Legalization Advocates", "Pro-gun control", "Public School Advocates", "Animal rights", "Minority & ethnic groups", "Gay & lesbian rights and issues", "Abortion policy, pro-choice", "Environmental policy" or Industry code is Liberal Policy Organization

The variables in the dataset then provide measures of centrality for each of these groups using different thresholds (the different thresholds are marked with a number at the end of the variable name).

- state.name: The name of the state (all 50 states are included, no DC)
- state.ab: 2 letter state abbreviation
- start.year: The first year of the cycle.
- stop.year: The last year of the cycle (this is the election year).
- leg: Indicates if it is the upper or lower house, 'Senate' is the state upper house, 'House' is the state lower house.
- Tot.Don.All: Total amount donated from non-individuals to all candidates in this cycle.
- Tot.Cand.All: Total number of candidates in this cycle.
- Tot.Cont.All: Total number of donors (non-individuals) in this cycle.
- Tot.Don.Numbs.All: Total number of donations (from non-individuals) in this cycle.
- EPN.size.All: Number of non-individuals in the network (this excludes those who did not make the min participation requirement of at least 2 cycles)
- All.Labor.EV.1: The eigenvector centrality of labor groups within the full network using edges at the 0.90 threshold.
- All.Labor.CL.1: The closeness centrality of labor groups within the full network using edges at the 0.90 threshold.
- All.Labor.DEG.1 The degree centrality of labor groups within the full network using edges at the 0.90 threshold.
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- All.Liberal.Don: Total amount donated from liberal groups to all candidates.
- All.Cons.Don: Total amount donated from conservative groups to all candidates.
- All.Dem.Don: Total amount donated from Democratic groups to all candidates.
- All.Rep.Don: Total amount donated from Republican groups to all candidates.
- Tot.Don.Dem: Total amount donated from non-individuals to democratic candidates in this cycle.
- Tot.Cand.Dem: Total number of democratic candidates in this cycle.
- Tot.Cont.Dem: Total number of donors (non-individuals) donating to Democratic candidates this cycle.
- Tot.Don.Numbs.Dem: Total number of donations (from non-individuals) to Democratic candidates this cycle.
- EPN.size.Dem: Total number of donors in the Democratic party network (have to make the minimum threshold for this)
- Dem.Labor.EV.1: The eigenvector centrality of labor groups within the Democratic network using edges at the 0.90 threshold.
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- Dem.Rep.DEG.5: The degree centrality of Republican groups within the Democratic network using edges at the 0.995 threshold.
- Dem.Labor.Don: Total amount donated from labor groups to Democratic candidates.
- Dem.Business.Don: Total amount donated from business groups to Democratic candidates.

- Dem.Liberal.Don: Total amount donated from liberal groups to Democratic candidates.
- Dem.Cons.Don: Total amount donated from conservative groups to Democratic candidates.
- Dem.Dem.Don: Total amount donated from Democratic groups to Democratic candidates.
- Dem.Rep.Don: Total amount donated from Republican groups to Democratic candidates.
- Tot.Don.Rep: Total amount donated from non-individuals to Republican candidates in this cycle.
- Tot.Cand.Rep: Total number of Republican candidates in this cycle.
- Tot.Cont.Rep: Total number of donors (non-individuals) donating to Republican candidates this cycle.
- Tot.Don.Numbs.Rep: Total number of donations (from non-individuals) to Republican candidates this cycle.
- EPN.size.Rep: Total number of donors in the Republican party network (have to make the minimum threshold for this)
- Tot.Don.Rep
- Tot.Cand.Rep
- Tot.Cont.Rep
- Tot.Don.Numbs.Rep
- EPN.size.Rep
- Rep.Labor.EV.1: The eigenvector centrality of labor groups within the Republican network using edges at the 0.90 threshold.
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- Rep.Rep.DEG.1: The degree centrality of Republican groups within the Republican network using edges at the 0.90 threshold.
- Rep.Labor.EV.2: The eigenvector centrality of labor groups within the Republican network using edges at the 0.95 threshold.
- Rep.Labor.CL.2: The closeness centrality of labor groups within the Republican network using edges at the 0.95 threshold.
- Rep.Labor.DEG.2 The degree centrality of labor groups within the Republican network using edges at the 0.95 threshold.
- Rep.Business.EV.2: The eigenvector centrality of business groups within the Republican network using edges at the 0.95 threshold.

- Rep.Business.CL.2: The closeness centrality of business groups within the Republican network using edges at the 0.95 threshold.
- Rep.Business.DEG.2: The degree centrality of business groups within the Republican network using edges at the 0.95 threshold.
- Rep.Liberal.EV.2: The eigenvector centrality of liberal groups within the Republican network using edges at the 0.95 threshold.
- Rep.Liberal.CL.2: The closeness centrality of liberal groups within the Republican network using edges at the 0.95 threshold.
- Rep.Liberal.DEG.2: The degree centrality of liberal groups within the Republican network using edges at the 0.95 threshold.
- Rep.Cons.EV.2: The eigenvector centrality of conservative groups within the Republican network using edges at the 0.95 threshold.
- Rep.Cons.CL.2: The closeness centrality of conservative groups within the Republican network using edges at the 0.95 threshold.
- Rep.Cons.DEG.2: The degree centrality of conservative groups within the Republican network using edges at the 0.95 threshold.
- Rep.Dem.EV.2: The eigenvector centrality of Democratic groups within the Republican network using edges at the 0.95 threshold.
- Rep.Dem.CL.2: The closeness centrality of Democratic groups within the Republican network using edges at the 0.95 threshold.
- Rep.Dem.DEG.2: The degree centrality of Democratic groups within the Republican network using edges at the 0.95 threshold.
- Rep.Rep.EV.2: The eigenvector centrality of Republican groups within the Republican network using edges at the 0.95 threshold.
- Rep.Rep.CL.2: The closeness centrality of Republican groups within the Republican network using edges at the 0.95 threshold.
- Rep.Rep.DEG.2: The degree centrality of Republican groups within the Republican network using edges at the 0.95 threshold.
- Rep.Labor.EV.3: The eigenvector centrality of labor groups within the Republican network using edges at the 0.975 threshold.
- Rep.Labor.CL.3: The closeness centrality of labor groups within the Republican network using edges at the 0.975 threshold.
- Rep.Labor.DEG.3 The degree centrality of labor groups within the Republican network using edges at the 0.975 threshold.

- Rep.Business.EV.3: The eigenvector centrality of business groups within the Republican network using edges at the 0.975 threshold.
- Rep.Business.CL.3: The closeness centrality of business groups within the Republican network using edges at the 0.975 threshold.
- Rep.Business.DEG.3: The degree centrality of business groups within the Republican network using edges at the 0.975 threshold.
- Rep.Liberal.EV.3: The eigenvector centrality of liberal groups within the Republican network using edges at the 0.975 threshold.
- Rep.Liberal.CL.3: The closeness centrality of liberal groups within the Republican network using edges at the 0.975 threshold.
- Rep.Liberal.DEG.3: The degree centrality of liberal groups within the Republican network using edges at the 0.975 threshold.
- Rep.Cons.EV.3: The eigenvector centrality of conservative groups within the Republican network using edges at the 0.975 threshold.
- Rep.Cons.CL.3: The closeness centrality of conservative groups within the Republican network using edges at the 0.975 threshold.
- Rep.Cons.DEG.3: The degree centrality of conservative groups within the Republican network using edges at the 0.975 threshold.
- Rep.Dem.EV.3: The eigenvector centrality of Democratic groups within the Republican network using edges at the 0.975 threshold.
- Rep.Dem.CL.3: The closeness centrality of Democratic groups within the Republican network using edges at the 0.975 threshold.
- Rep.Dem.DEG.3: The degree centrality of Democratic groups within the Republican network using edges at the 0.975 threshold.
- Rep.Rep.EV.3: The eigenvector centrality of Republican groups within the Republican network using edges at the 0.975 threshold.
- Rep.Rep.CL.3: The closeness centrality of Republican groups within the Republican network using edges at the 0.975 threshold.
- Rep.Rep.DEG.3: The degree centrality of Republican groups within the Republican network using edges at the 0.975 threshold.
- Rep.Labor.EV.4: The eigenvector centrality of labor groups within the Republican network using edges at the 0.99 threshold.
- Rep.Labor.CL.4: The closeness centrality of labor groups within the Republican network using edges at the 0.99 threshold.

- Rep.Labor.DEG.4 The degree centrality of labor groups within the Republican network using edges at the 0.99 threshold.
- Rep.Business.EV.4: The eigenvector centrality of business groups within the Republican network using edges at the 0.99 threshold.
- Rep.Business.CL.4: The closeness centrality of business groups within the Republican network using edges at the 0.99 threshold.
- Rep.Business.DEG.4: The degree centrality of business groups within the Republican network using edges at the 0.99 threshold.
- Rep.Liberal.EV.4: The eigenvector centrality of liberal groups within the Republican network using edges at the 0.99 threshold.
- Rep.Liberal.CL.4: The closeness centrality of liberal groups within the Republican network using edges at the 0.99 threshold.
- Rep.Liberal.DEG.4: The degree centrality of liberal groups within the Republican network using edges at the 0.99 threshold.
- Rep.Cons.EV.4: The eigenvector centrality of conservative groups within the Republican network using edges at the 0.99 threshold.
- Rep.Cons.CL.4: The closeness centrality of conservative groups within the Republican network using edges at the 0.99 threshold.
- Rep.Cons.DEG.4: The degree centrality of conservative groups within the Republican network using edges at the 0.99 threshold.
- Rep.Dem.EV.4: The eigenvector centrality of Democratic groups within the Republican network using edges at the 0.99 threshold.
- Rep.Dem.CL.4: The closeness centrality of Democratic groups within the Republican network using edges at the 0.99 threshold.
- Rep.Dem.DEG.4: The degree centrality of Democratic groups within the Republican network using edges at the 0.99 threshold.
- Rep.Rep.EV.4: The eigenvector centrality of Republican groups within the Republican network using edges at the 0.99 threshold.
- Rep.Rep.CL.4: The closeness centrality of Republican groups within the Republican network using edges at the 0.99 threshold.
- Rep.Rep.DEG.4: The degree centrality of Republican groups within the Republican network using edges at the 0.99 threshold.
- Rep.Labor.EV.5: The eigenvector centrality of labor groups within the Republican network using edges at the 0.995 threshold.

- Rep.Labor.CL.5: The closeness centrality of labor groups within the Republican network using edges at the 0.995 threshold.
- Rep.Labor.DEG.5 The degree centrality of labor groups within the Republican network using edges at the 0.995 threshold.
- Rep.Business.EV.5: The eigenvector centrality of business groups within the Republican network using edges at the 0.995 threshold.
- Rep.Business.CL.5: The closeness centrality of business groups within the Republican network using edges at the 0.995 threshold.
- Rep.Business.DEG.5: The degree centrality of business groups within the Republican network using edges at the 0.995 threshold.
- Rep.Liberal.EV.5: The eigenvector centrality of liberal groups within the Republican network using edges at the 0.995 threshold.
- Rep.Liberal.CL.5: The closeness centrality of liberal groups within the Republican network using edges at the 0.995 threshold.
- Rep.Liberal.DEG.5: The degree centrality of liberal groups within the Republican network using edges at the 0.995 threshold.
- Rep.Cons.EV.5: The eigenvector centrality of conservative groups within the Republican network using edges at the 0.995 threshold.
- Rep.Cons.CL.5: The closeness centrality of conservative groups within the Republican network using edges at the 0.995 threshold.
- Rep.Cons.DEG.5: The degree centrality of conservative groups within the Republican network using edges at the 0.995 threshold.
- Rep.Dem.EV.5: The eigenvector centrality of Democratic groups within the Republican network using edges at the 0.995 threshold.
- Rep.Dem.CL.5: The closeness centrality of Democratic groups within the Republican network using edges at the 0.995 threshold.
- Rep.Dem.DEG.5: The degree centrality of Democratic groups within the Republican network using edges at the 0.995 threshold.
- Rep.Rep.EV.5: The eigenvector centrality of Republican groups within the Republican network using edges at the 0.995 threshold.
- Rep.Rep.CL.5: The closeness centrality of Republican groups within the Republican network using edges at the 0.995 threshold.
- Rep.Rep.DEG.5: The degree centrality of Republican groups within the Republican network using edges at the 0.995 threshold.

- Rep.Labor.Don: Total amount donated from labor groups to Republican candidates.
- Rep.Business.Don: Total amount donated from business groups to Republican candidates.
- Rep.Liberal.Don: Total amount donated from liberal groups to Republican candidates.
- Rep.Cons.Don: Total amount donated from conservative groups to Republican candidates.
- Rep.Dem.Don: Total amount donated from Democratic groups to Republican candidates.
- Rep.Rep.Don: Total amount donated from Republican groups to Republican candidates.