The US Congress is composed of the House and the Senate. Congress proposed over 9000 bills since 2017 of which over 100 have become law. This is an effort to make the activities of Congress members and legislative data more accessible to everyone.

Bills Introduced in Congress since 2017

Partisan scores for proposed bills were calculated by the balance of Republican and Democratic cosponsors on each bill. The bills proposed in the House tend to be either bipartisan or very partisan while bills proposed in the Senate have a diversity of partisan scores but tend Democratic.

Understanding the United States Congress through Data Visualization, Network Analysis, and Topic Modeling

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The Current State of the US Congress

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Productivity and Partisanship of Members in Congress

Productivity and Partisanship of Members in Congress

Keyword Extraction from Bill Summaries

Keyword Extraction from Bill Summaries

Using Topic Modeling to Build the Congressional Data Complex

Using Topic Modeling to Build the Congressional Data Complex

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Keywords of bills are used to train a topic model which represents each bill as a combination of topics. Congress members and bills are connected to each other through topics and sponsor-to-cosponsor connections. This network is termed the Congressional Data Complex.

Keywords are grouped by partisan score of bills.

Keywords are extracted from bill summaries using TextRank.

Each bubble is a Congress member where the color of the bubble represents party affiliation and the size represents the average number of cosponsors on bills sponsored by that member since 2017.

The average partisan score of sponsored bills by member provides insight into the partisan nature of member interest.

Each bubble is a Congress member where the color of the bubble represents party affiliation and the size represents the number of connections made by the member. An edge, or line, is drawn between two members if either has served as a cosponsor to the other more than 5 times.

Keywords are grouped by partisan score of bills.

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