



Figure 2 Autosuggestion results for male representatives



Figure 3 Autosuggestion results for republicans



Figure 4 Autosuggestion results for Democrats

To better capture what are the most disproportionately represented terms in each category, we then compared the percentage of members of Congress in each category who had each keyword suggested. For example, for 121 Democrats and 139 Republicans, ‘committees’ was a suggested search term. Since there are 238 Democratic and 301 Republican members of Congress, 51% of Democrats and 46% of Republicans have ‘committees’ suggested. This means that the term skews 4.2% Democrat, making it the 5th most proportionally Democratic term in our preliminary results.

	Democrat	Republican	Female	Male
1	Internship	Primary	Internship	Wife
2	Office	Facebook	Staff	Congress
3	TPP	Voting record	DC office	Wiki
4	Hillary Clinton	Trump	Twitter	Congressman
5	Committees	For Congress	Chief of staff	LinkedIn

Our preliminary results definitely seem to have some associated stories. For example, every social network is primarily female except LinkedIn (which is suggested for only male politicians), but they are also primarily Republican except Instagram, which is noteworthy considering that the majority of female members of Congress are Democrat. This might also be related to the fact that most campaign-related queries, such as “for Congress,” are primarily Republican, as well as the current Republican control over Congress. There is some conventional wisdom that Democrats are more focused on presidential politics, which is also potentially related.

For further analysis to discover interesting finding and construct news worthy stories, we plan to make comparisons between other possible data points provided through API by govtrack.us. For example, we can compare representatives who own social media accounts versus those who don't, or representatives who co-sponsored different types of bills with a focus on controversial ones. Comparing across different time stamps can be another option. Also we can filter out the representatives who are recently associated with some political scandals and see how autosuggestion takes different patterns across those individuals.

Through this lens, we should be able to find a number of newsworthy results related to how the public perceives Congress. Given the disparity between its historically low approval rating and the relatively high approval ratings of the individual members, this kind of aggregated analysis of the individual members might be able to provide some insight.