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The research of Poole and Rosenthal has focused on quantifying the political ideology of politicians [3]. In particular, they actively develop methods for calculating ‘ideal points’ of candidates. The DW-NOMINATE method calculates a legislators overall probability of voting ‘yea’ on a piece of legislation as the sum of a deterministic utility value and a random error [1]. ‘Ideal point’ coordinates were obtained for legislators by maximizing the log likelihood function

A heatmap visualization showing the distribution of 100 random samples across ten categories. The categories are listed on the y-axis: Agribusiness, Defense, Transportation, Lawyers & Lobbyists, Finance/Insur/RealEst, Misc Business, Communic/Electronics, Energy/Nat Resource, Ideology/Single-Issue, Construction, Health, and Labor. The x-axis represents 100 individual samples, each labeled with a number from 001 to 100. A color bar on the right indicates the value for each sample, ranging from 0.00 (dark blue) to 0.75 (dark red), with intermediate values at 0.15, 0.30, 0.45, and 0.60.

