Cool Kids and Politics

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Goals

- Model high school and college student self-organized social groups using a small number of factors
- Factor political affiliations into how students self-organize groups
- Estimate short and long term changes to group dynamics

Model Representation

- The model tracks the movements of a select number of personality types within three groups
- The first group represents people who are on their own and do not belong to a group
- The second two groups contain personality types and political affiliations which affect how different personality types join and leave the groups
Initial Conditions

- Number of personality types
- Number of groups
- Starting Population
- Personality Types disposition toward one another
- Personality Types political disposition
Model Flow

Initial Conditions: [Favorability], [Initial Population], [Political]

Cycle:

\[ \text{Favorability} \times \text{Initial Population} = \text{Decision} \]

[Decision] Gets first column zeroed

\[ \text{Decision} \times \text{Political} = \text{Political Decision} \]

[Political Decision] Get puts through a normalization process = [New Population]
As seen above the groups approach a steady state or oscillation soon after the model begins.
Before and after the ten iterations of the model were ran showing new organization of groups
Using different political affiliation table values, a new more sporadic model was created.
Before and after the ten iterations of the model were ran showing new organization of groups