

Measuring Fairness

1. Average Constituency

$$\text{average constituency} = \frac{\text{population of state}}{\text{number of representatives}}$$

2. Higher average constituency means more poorly represented.

3. Absolute Unfairness

$$\text{absolute unfairness} = (\text{larger average constituency}) - (\text{smaller average constituency})$$

4. Relative Unfairness

$$\text{relative unfairness} = \frac{\text{absolute unfairness}}{\text{smaller average constituency}}$$