

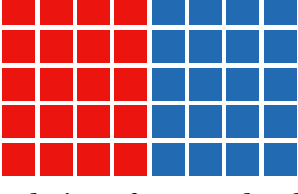
Gerrymandering Project Title

Subtitle subtitle subtitle

What is gerrymandering?

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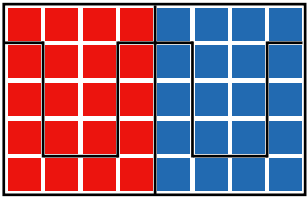
Example State



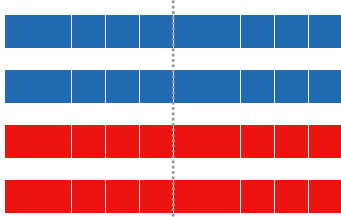
This state has a population of 40 people where half vote blue and half red, and will be split into 4 districts of equal size.

Based on this vote distribution, we “expect” that both **Red** and **Blue** earn 2 of the 4 available seats.

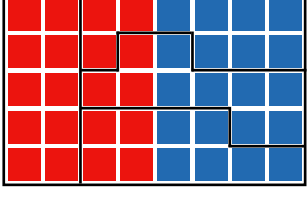
Perfectly Proportional



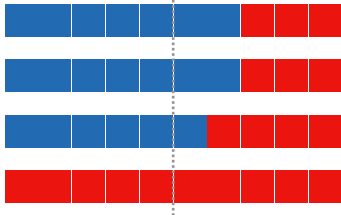
Red won 50% of the vote and 2 seats
Blue won 50% of the vote and 2 seats



Gerrymandered?



Red won 50% of the vote and 1 seat
Blue won 50% of the vote and 3 seats



How do we quantify gerrymandering?

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Expected seats in pure proportionality

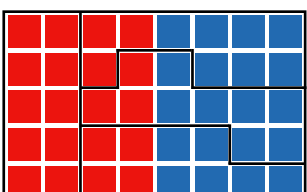
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Red won 1 seat of their expected 2 **(-1)**
Blue won 3 seats of their expected 2 **(+1)**

+1 expected seat gap benefitting **Blue**
in this example state.

The efficiency gap

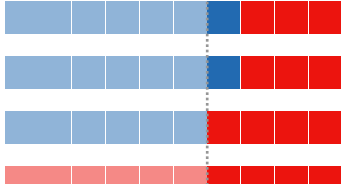
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Red ‘wasted’ 14 votes:



The 6 vote mark needed to win each district :



Everything right of line is a ‘wasted’ vote :

Blue ‘wasted’ 2 votes:



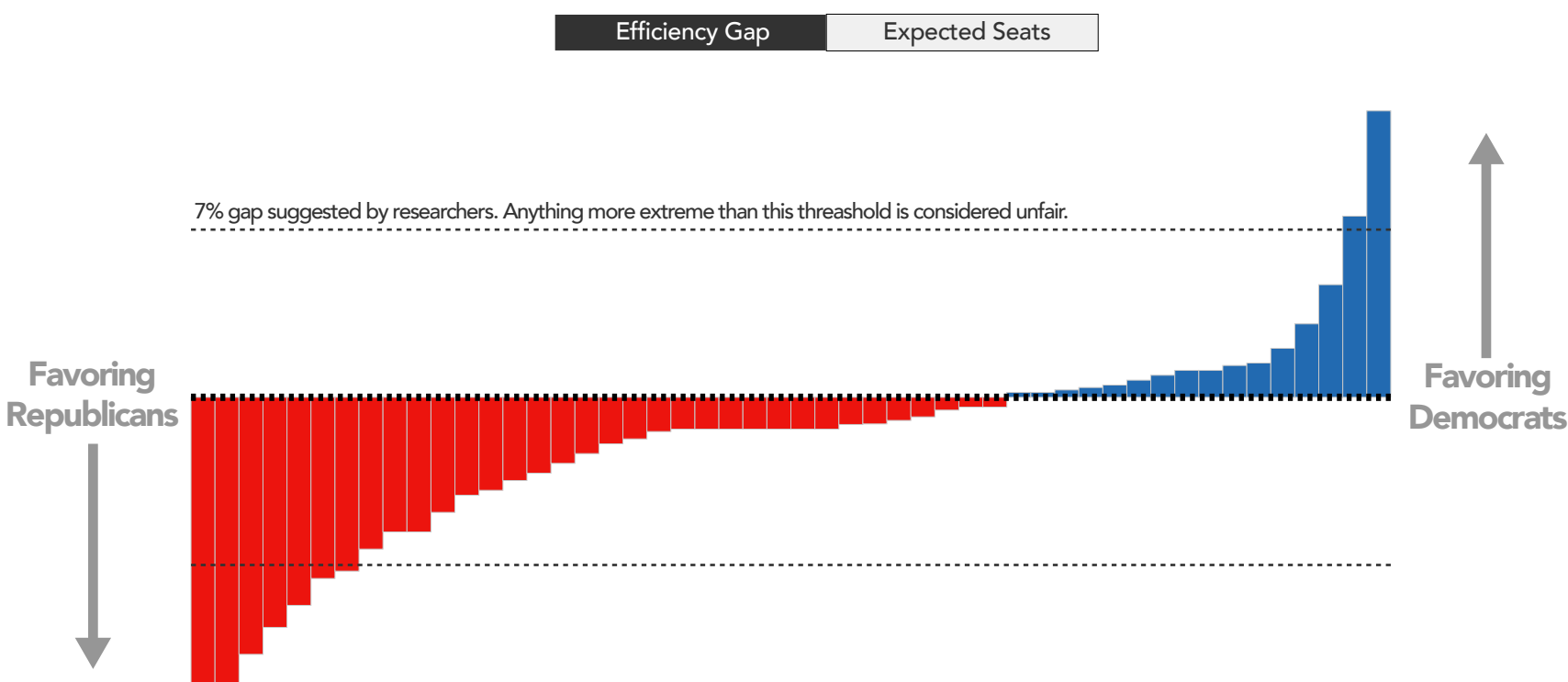
If we take the difference of these two figures, we find that Red wasted a net of 12 votes in this state. If we consider this as a proportion of overall votes cast (40) we find that there is a:

15% efficiency gap benefitting **Blue**
in this example state.

Do these metrics support evidence of gerrymandering by political party in the 2012 Congressional elections?

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State Results



District Results

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Wisconsin

x% efficiency gap and **+1** seat gap
benefitting **Republicans**

