

Extra Credit
Mathematics of Social Choice
Duchin, Spring 2021



Massachusetts Republicans

To explore the Massachusetts Republican effect, start by using [Districtr](#) to explore how the map looks in recent elections.

Then pick a few elections to focus on, some with $> 50\%$ R share and some with $< 50\%$. Make as many R-favoring districts as you can! Put together a short write-up and discuss what you discovered trying to do this. Include the URL to your maps. (You can generate a URL link to your maps with the share button at the top right.)

Squaretopia

Submit the plans you built for the orange-pink redistricting challenge on Worksheet 9, using [this cool app made by Bhushan](#).

You can export them as JSON files in the app and turn them in on slack, including a (very) short explanation of your goals and how well you succeeded.

Worksheet bonus problems

There were bonus problems listed on several worksheets: Worksheet 1 Problem 3, Worksheet 3 Problem 1, Worksheet 6 Problem 3, and two on Worksheet 9.

You can work on any of these! Some of these had solutions already provided with the worksheets, so to get extra credit you'll need to go a little deeper....