

# Proposal #1: Congressional Gerrymandering

## Project Overview:

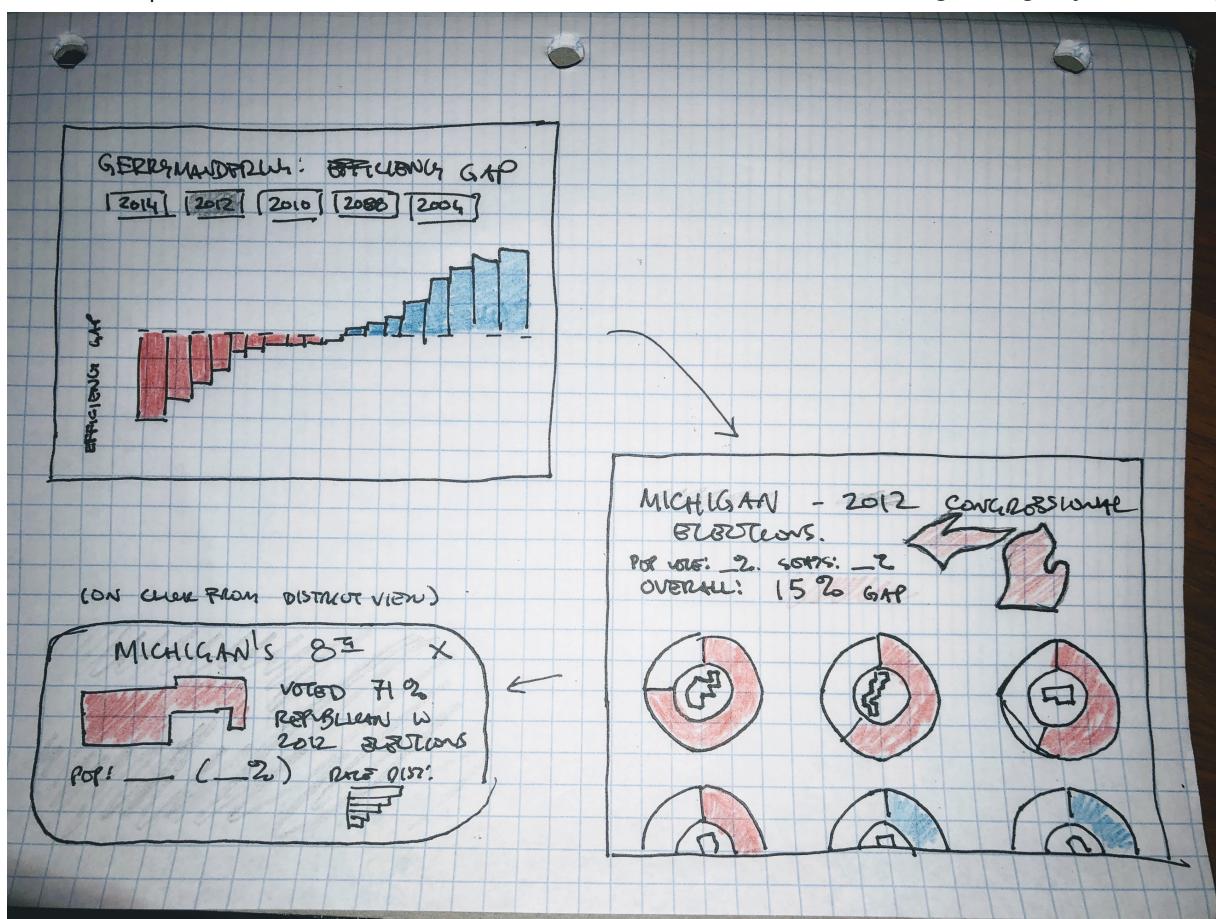
Most congressional district lines were last redrawn in 2010. Parties in control of state legislatures used the long-established process of gerrymandering to redraw districts in a way that gave them a political advantage in upcoming congressional elections. However, with a case currently in the Supreme Court evaluating the legality of such political gerrymandering, this analysis will present the relevant evidence on unfair or disproportionate representation resulting from congressional elections.

Which states show disproportional representation for one political party? Can we identify which districts in these states show evidence of political gerrymandering by looking at voting results after redistricting? This project will adopt the efficiency gap methodology employed in a case being presented to the Supreme Court ([New York Times](#), [Washington Post](#)).

Inspiration Pieces/Research: [How Dems won the popular vote but lost the House](#)

## Design Sketch:

This analysis will present overall efficiency gap results for each state in a particular election, with the user being able to change this year. They should then see results in all districts, along with the shape of the district and additional info, to make a case for or against gerrymandering.



# Proposal #2: Does shooting disproportionately more 3-pointers in the NBA really work?

## Project Overview:

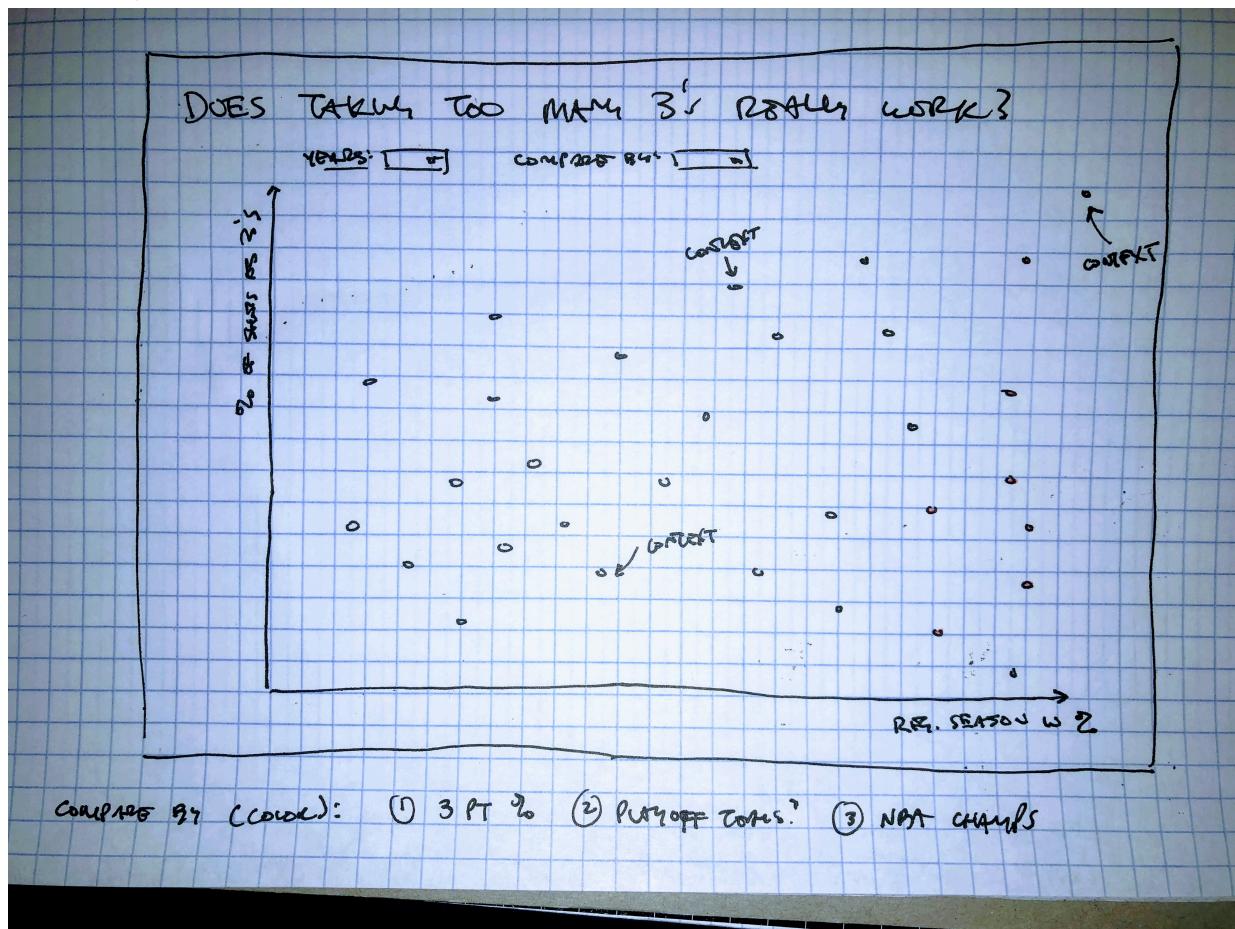
There has been a distinct rise in a particular strategy in the NBA: abandon the mid-range shot for the three-pointer. This strategy rests on the idea that there is a higher expected point-per-shot for 3-pointers than mid-range shots, even with the significantly lower field goal percentage of longer shots. This analysis will identify whether teams that employ this strategy have seen greater success from it.

Is there any relationship between success (regular-season wins, playoff appearances, and championships) and the proportion of 3-points shots taken?

Inspiration Pieces/Research: [Every NBA Score](#), [Do NBA refs favor the home team?](#)

## Design Sketch:

This analysis will look to explore simple correlation analysis between proportion of a team's shots that are 3-pointers and regular-season win %. I also want to give the user the ability to highlight teams that (1) made the playoffs, (2) won championships, and (3) compare by 3-point shooting percentage (one-color scale).



# Proposal #3: Mapping New York City's Food Deserts

## Project Overview:

The lack of access to "healthful whole foods" or grocery stores is a significant social issue for impoverished and marginalized communities in many American cities. This proposed analysis will dive into identifying the areas within New York City that lack access to healthy groceries and will compare that map to other demographic and historical data (such as racial distribution, income distribution, and/or redlining maps) to explore narratives behind this social rights issue.

Are there food deserts in New York City? How many of the Census tracts here classify as 'food deserts' at different evaluation thresholds? How does the food desert map look when we look only at areas of high poverty? of lower income? Is there a correlation between other socially or historically significant maps (like red-lining maps) and food desert concentration?

Inspiration Pieces/Research: [City Digits: Local Lotto](#)

## Design Sketch:

