

## Lab 8 - Choropleths in CARTO

In this lab, we will revisit CARTO and explore its more advanced capabilities. The focus of this lab is on choropleths: creating them, and getting them “right”.

Now you know the very basics of CARTO, let’s make a few maps! For this exercise, team up in **groups of two or three** students.

While you work on these tasks, keep in mind the concepts we discussed in the lecture. In particular, we have seen visualisations are limited by the:

- Computer
- Human
- Display

Similarly, remember how every map is an abstraction that inevitably loses information from reality, so which aspects you are willing to give up are an important design choice that should be based on the *goal of the map*. When thinking through what aspects might be useful to keep, or prioritise, remember MacEachren & Kraak (1997)’s “Map Cube”.

Finally, when designing a choropleth, remember the questions every choropleth maker needs to answer (implicit or explicitly):

- How many bins?
- How to assign values to each bin?
- What colors to assign to bins?
- ***Make the worst map you can***

Think of the lecture on designing visualisations and maps and try to actively ignore every piece of advice we’ve discussed in class. This of course means you can’t ignore the advice but you have to actively not follow any aspects of what makes a good map good.

Once you’re happy with your worst possible map, share it with class. Discuss what is *wrong* about those maps and how they could be improved.

- ***Make the best map you can***

Now you know how to make a bad map, try your best to make an awesome map. Once you are happy with the results, share it with the group and explain what you think makes the maps great.