# **Responsive Map Cheat Sheet**

This cheat sheet guides you in successfully making your map design responsive. It provides an overview of the most common challenges, and design solutions to address them. The recommendations in this cheat sheet are based on guidance from experienced map designers and developers.

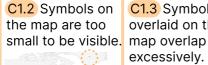
### **Challenges**

Which of these are present in your map?

#### C1 Scaling the map down makes it unreadable.

C1.1 Small areas on the map are too small to be visible.







C1.3 Symbols overlaid on the excessively.



### C2 The aspect ratio of the available space is mismatched with

the map. C2.1 The map is very small and surrounded by



C2.2 The map is partly off-screen.



S2.1 Scroll the map

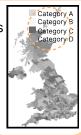
vertically.

#### C3 Legend or other UI elements do not fit.

C3.1 Legend (text) is too small to read.



C3.2 The legend covers part of the map.



## **Design Solutions**

Which of these strategies could be useful for your map? Start with S1, then move on to S2-S4.

# Start with subtle design changes that will

S1.1 Maximize the size of the map by repositioning other UI elements.



S1.2 Re-design the legend to be more compact.



# help the map scale down better.

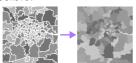
\$1.3 Replace the legend with annotations or labels on mouseover/tap.



S1.5 Adjust the scale of

symbols on the map.

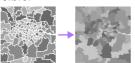
S1.4 Decrease line width or remove outlines where

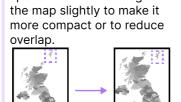


S1.6 Displace symbols or

spatial units on the edges of

possible.





map.



## **S2** Make use of scrolling, zooming, and panning.

S2.2 Scroll the map horizontally.



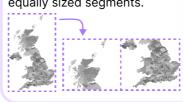
S2.3 Pan and zoom the entire S2.4 Create cutouts that



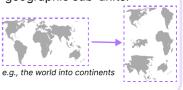
zoom into dense areas.



S3.1 Separate the map into equally sized segments.



S3.2 Separate the map into geographic sub-units.



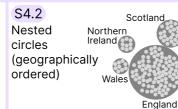
### S4 Use alternative visualization types that allow for more flexible use of space, such as:

S4.1 Cartograms & grid maps

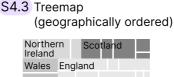




grid map







S4.4 Lookup search boxes

