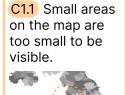
# **Responsive Map Cheat Sheet**

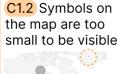
This cheat sheet guides you in successfully making your map design responsive. It provides an overview of the most common challenges, and design solutions to address them. Use the challenges as a checklist to identify potential issues, then choose design solutions to address the challenges you identified.

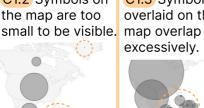
## **Challenges**

Which of these are present in your map?

C1 Scaling the map down makes it unreadable.







C1.3 Symbols overlaid on the excessively.



#### C2 The aspect ratio of the available space does not fit the map.

C2.1 The map is very small and surrounded by lots of wasted space.



C2.2 The map is partly off-screen.



#### 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**

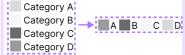
Which of these strategies could be useful for your map? Start with S1, then move on to S2-S4.

### Start with subtle design changes that will help the map scale down better.

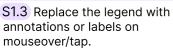
S1.1 Maximize the size of the elements.



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



map by repositioning other UI





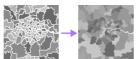
S1.5 Adjust the scale of

symbols on the map.

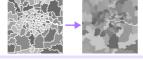
S1.6 Change the map

projection.

S1.4 Decrease line width or



remove outlines where possible.



S1.7 Displace symbols or spatial units on the edges of the map slightly to make it more compact or to reduce overlap.



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

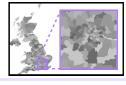
S2.1 Scroll the map vertically.



S2.3 Pan and zoom the entire



S2.4 Create cutouts that zoom into dense areas.



### **S3** Separate the map into segments.

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





