MAPPABLE CHEAT-SHEET

An (incomplete) checklist for making geodata visualizations in (data-driven) journalism.

ALWAYS ASK YOURSELF FIRST: Is a map really the best way to visualize the data set?

DATA HANDLING	
0	Got all geographic elements right? (especially borders & place names) Check the correct position of geocoded and self drawn map elements (thus preventing mistakes from misused spatial reference systems) Have all outliers and duplicates been eliminated? Correctly dealt with incomplete data entries? Have data entries that are not necessary for the final visualization been removed? Have the values been normalized (e.g. by population data)?
CAR	TOGRAPHIC REPRESENTATION
0	Has a suitable spatial reference system been chosen? (consider rotation, distortion, equal area) Is the level of given context information (reference points, place names, borders) wel balanced? Is it really necessary to use a basemap or can users already orient themselves by the mapped data points? Is there too much useless white space on the map? If yes, how about several smaller maps?
VISU	AL IMPLEMENTATION
0	Do readers instantly understand the key message of the visualization? Is the visualization readable for someone who suffers from color blindness? Choose meaningful categorial boundaries that lead to well perceivable categories If mapping locations: pick symbols than are more meaningful than pins (or use dots instead) Color scales Rainbow colors and red-green color schemes usually should not be the first choice. http://colorbrewer2.org/ is your friend! Be careful with manipulating color schemes when working with continuous data. You might damage the logic of equidistant colors. When working with qualitative color schemes: do all colors appear equally

 important or are there unintended highlights? Be aware of biased colors (e.g. red and green) and what meaning is usually assigned to them Choose a suitable middle point when working with diverging color schemes 		
LEGEND AND ATTRIBUTION		
 Include copyright and attribution for all external data sources (incl. geodata and open data!) Does the reader need a legend to understand the visualization? If yes, is your legend complete? If you use transparent map elements, pay attention on displaying them correctly in the map legend. If desired: how about publishing your raw data? 		
INTERACTIVITY		
 Is it easily understandable how interactive elements work? Would a static map be equally suitable? Does interactivity really lead to a surplus that's worth the external dependencies that come along with interactivity? Is your map limited to meaningful extends and zoom levels? How does your visualization work with your content management systems? Is everything working fine in most common browsers and on mobile devices (at least in iOS + Android)? If desired: how about embedding options? 		