Journal of Maps A guide to common errors in map production



At the Journal of Maps we receive many map submissions and, with strong competition for publication, it is important for authors to make sure that the standard of cartography is high.

Our experience in undertaking reviews has highlighted a range of common problems, many of which can lead to manuscript rejection. This guide therefore offers some advice on good practice regarding cartographic design for submission of maps to the Journal of Maps.

Mandatory points are marked with red circles, other recommendations are marked with blue circles.

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Text should always appear clear against background map information. Ensure that a mask or outline stroke is used to make text clear and legible.



Where possible, try to ensure that text labels sit centrally on the associated symbol.



Main Title Goes Here and Here				
Author Names Here				
Institution Names Here				

Try not to mix alignments on map titles - either set left, or set centrally. The title should be short, succinct, yet describe the content/context of the paper. In addition the title should also avoid the word "map" (as it is obvious it is a map).





V

Text should sit at equal distances from the frame.

5	Water bodies	Mountain	COUNTRY NAME	
	Place names	CAPITAL CITY	STUDY AREA	

Use different type styles for different geographic features.



Ensure that text in legends and keys is correctly aligned.



Ensure that text in legends and keys doesn't get too close to the frame.

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This study maps the spatial relationships between sociodemographic characteristics (poverty trajectories, racial/ethnic/nativity composition) and food environments in Alameda County, California. Our map presents poverty trajectories and racial/ethnic/nativity composition at the tract level, as well as maps



Try to avoid hyphenating words if possible.

This study maps the spatial relationships between sociodemographic characteristics (poverty trajectories, racial/ethnic/nativity composition) and food environments in Alameda County, California. Our map presents poverty trajectories and racial/ethnic/nativity composition at the tract level, as well as maps





River labels should flow smoothly along the line of the river.



Try to ensure that text on grids is presented horizontally if space allows. Remove decimal places on grid labels.



Scale bars should be kept simple. Spell 'kilometres' and 'metres' in full if space allows. "kilometers" should be spelled in US or UK English dependent upon the manuscript.



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North points should not be over elaborate or too simple. Computer, or GIS, generated symbols are best avoided.





Arrowheads should sit at the end of the line.





Ensure that linework is neat and that lines don't cross other lines.



Try to ensure that linework is smoothed out, rather than jagged and computer-generated in appearance. Make sure linework is appropriate to the scale; if detailed, then generalise before smoothing.



Be aware of line thicknesses. Don't make lines too thin, or too thick.



Contour labels should be orientated towards the highest point.



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Ensure that shadings are contained within the area. Unless necessary it is best to avoid symbolised polygon fills and use solid areas of shading instead.

X





Don't overcomplicate shadings.



Ensure that DEM images are full resolution (300 dpi or above).



Ensure that location inset maps are clear, and show the study area in a wider context.







Make sure that choropleth map class boundaries do not overlap.

	MAP TITLE HERE			
Main map		Legend		
		Logos		X
MAP TITLE HERE Author names here Author institutions here	Main map		Logos Inset Legend	
Simple scale bar			Map info	

Ensure that your map is neatly laid out. The main map should dominate the space (supporting graphics will appear in the essay). Create a layout considering that the viewer will be reading top to bottom, and left to right.

Other points to remember:

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- When adding the logos of institutions then ensure that high-resolution vector versions are used, and not just low-resolution jpeg files from the web.
- Try not to 'flood' the map with too much information. Consider what it is that you are trying to communicate and only include relevant information.
- Keep focused upon **map** production. Think about creating the map as the focus filling the page, with other related elements (e.g. title, legend, etc.) designed in an appropriate visual hierarchy and balanced layout.
- Avoid designs that are like an academic poster that use lots of a text, photos, and charts.
- Remember to include technical details of map projection, coordinate system, map orientation etc.
- Maps **MUST** be submitted in vector format. *Failure to do so will result in the work being rejected*.

References:

Dent, B.D. (1993). Cartography: thematic Map Design (5th ed). Dubuque, Iowa: William C Brown.

Kraak, M.J. and Ormeling, F. (2002). Cartography: visualization of spatial data (2nd ed). Harlow: Pearson.

MacEarchen, A.M. (1995). How maps work: representation, visualisation, and design. London: Guildford Press.

Robinson, A.H., Morrison, J.L., Muehrcke, P.C., Kimerling, A.J. and Guptil, S.C. (1995). Elements of cartography (6th ed). Chichester: Wiley.