02 LAB - GUIDE TO COLOR AND ICONS

cart design 2017

due: 2/28
PURPOSE

To gain skills in Adobe Illustrator by creating visual guides that help mapmakers make good color and icon choices.

COLOR

Munsell's color principles

Please create a layout that helps mapmakers connect principles from Munsell's perceptual theory of color to different mapmaking contexts. Here are two example layouts that you can use or adapt as you think is best.

<table>
<thead>
<tr>
<th>context</th>
<th>illustration</th>
<th>explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>to distinguish different nominal classes</td>
<td><img src="example1.png" alt="Illustration" /></td>
<td>Briefly describe Munsell's principle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>principle</th>
<th>illustration</th>
<th>contexts where this applies</th>
</tr>
</thead>
<tbody>
<tr>
<td>describe Munsell principle</td>
<td><img src="example2.png" alt="Illustration" /></td>
<td>x x x x</td>
</tr>
</tbody>
</table>

Please be sure to include the following cases for classed values:

- (a) sequential ramps
- (b) divergent ramps
- (c) bivariate combinations

The last one in particular may be tricky (getting two ramps to combine so that the combined colors still follow Munsell's theory of balance). You may find [this tutorial](#) helpful for learning how to assemble these ramps with AI.

SAVE FOR NEXT WEEK

ICONS

(1) Get good examples

Download the AI sheet of map symbols from the National Park Service. You will likely get an error message when you open it because you don’t have Frutiger installed on your AI. This is ok.

(2) Study how they’re put together

Create a new page in AI. Make a grid with lines at 24 point intervals and 12 subdivisions. Go back to the NPS page, select one of the icons and paste it into your new page with the grid on it.

What size is the icon? How is it composed of different parts? How are these parts layered? What are the minimum and maximum sizes of paths used in the different parts?

(3) Study other examples of iconic map symbols

Study examples of iconic symbols used for things that will often appear on maps, like boundary lines, transportation lines, hydrological features, geodetic benchmarks, residential areas, etc. Here are some useful sites:

- [Transportation symbols on USGS maps](#)
- [Terrain symbols on USGS maps](#)
- [Boundary lines on USGS maps](#)
- [Control stations on USGS maps](#)
- [Odds and Ends on USGS maps](#)

(4) Make a style sheet

Make a practical guide that helps mapmakers select good styles for things that often appear on maps. At a minimum, please include a few points icons in addition to styles for transportation (including shields), boundaries and waterways. You can present this as a list of features organized by geometry or thematic class. Alternatively you can present more than one symbol together in a context: (roads with shields for a reference map versus roads as reference features in a thematic map, etc).