

## Digital Mapping Guide: When To Use What

A rough guide to figuring out what tool you need for whatever type of map you want to make.

Needs	Tools	Notes	Examples
<ul style="list-style-type: none"> <li>• Preserve underlying geometry</li> <li>• Global and/or street-level viewing</li> <li>• Accessible on web</li> <li>• Zooming and panning support</li> <li>• Maximum/granular base-level customizability</li> </ul>	Load basemap from <b>Stamen</b> , <b>CartoDB</b> , or <b>OSM</b> , use <b>Leaflet.js</b> or <b>mapbox.js</b> , manipulate with javascript	Want customized base tiles? Make your own using <b>TileMill</b> or <b>MapBox</b> (need an account/subscription)	<a href="#">Tor Map</a> <a href="#">LAFD</a>
All of the above PLUS: <ul style="list-style-type: none"> <li>• Don't want to mess with programming</li> <li>• Working with super large datasets</li> <li>• Fine with limited customization</li> <li>• Prioritizing speed over detail and distinction</li> </ul>	Use <b>CartoDB web interface</b> or Mapbox for loading in data on top of existing tiles		<a href="#">Buzzfeed spy planes</a> Note: for this example they are also using <a href="#">Juxtapose.js</a>
<ul style="list-style-type: none"> <li>• High level of support for viewing, projections, maps, vector/raster layers, adding data, analysis</li> <li>• Don't mind slightly clunky software</li> <li>• Good for easily working with shapefiles</li> <li>• Interested in manipulating both the map and the</li> </ul>	<b>QGIS</b> desktop program	There's a command line version of QGIS as well	

underlying data			
<ul style="list-style-type: none"> <li>• High level of customization/freedom with projections</li> <li>• Okay with steep learning curve</li> <li>• Javascript-savvy</li> <li>• Work with SVG (mainly)</li> <li>• No need for street-level or extensive zooming/panning</li> </ul>	Use <b>d3.js</b>		<a href="#">Chloropleth</a>
<ul style="list-style-type: none"> <li>• Create your own styles, tiles</li> <li>• Want ability to export images of maps, work on design</li> <li>• Easily layer data on top of maps</li> </ul>	<p>If you want maximum control, open-source, and don't mind old software:</p> <p><b>Tilemill</b></p> <p>desktop</p>	<p>For more polished/powerful interface, use <b>Mapbox Studio Classic</b> (will need an account to use the things you create in web apps, but not for exporting images)</p>	Note the <a href="#">tiles</a> , these are custom made
<ul style="list-style-type: none"> <li>• Working with satellite/aerial imagery</li> </ul>	<p><b>USGS Earth Explorer</b> for finding and accessing data using web interface (need to register to get the data)</p> <p><b>Landsat on AWS</b> for just accessing data easily</p> <p><b>landsat-util</b> for</p>	<p>People often use photoshop or other tools for stitching images together</p>	<a href="#">LandSat Bot</a>  <a href="#">Glittering Blue</a>

	downloading and working with the data on the command line		
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