

Web Mapping with Carto



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Data Visualization Services

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NEED HELP?

› Ask a question or
request a consultation



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Visualization

A good data visualization can expose new patterns and relationships in your data and help you communicate about it more clearly. We can help you:

- › use visualization spaces and technologies
- › use GIS and online mapping software
- › learn how to create more effective data visualizations
- › visualize research impact

Visualization Spaces

The Libraries provides spaces and technologies for high-resolution, immersive, 3D, and interactive displays of research data. We provide [boilerplate facilities descriptions](#) for inclusion in grant proposals. [Contact us](#) for more information and assistance.

WORKSHOPS

JAN
15

Getting Started with Data
Visualization: Tools for
Research!
11:00 AM to 12:00 PM

JAN
15

Creative Coding Group
12:15 PM to 1:15 PM

JAN
27

Visualize Your Data with
Tableau
3:00 PM to 4:00 PM

JAN
29

Data Cleaning and
Analysis Tips and Tools:
Excel and Open Refine
11:00 AM to 12:00 PM

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Making Maps for the Web: Considerations

- Web maps are digital, and rely on **internet architecture, servers and protocols** to display information - there are positives and negatives with that!
- Designing for various screen sizes
- Most web mapping tools are versatile and allow you to **download maps as an image** for use in a presentation, or embed them in a website.
- Web maps are great for **interactivity** - users can engage with the data, hover over things and get more information

Categories of software out there

No coding required

Carto

ArcGIS Online

Tableau

ZeeMaps

Google FusionTables

Prospect (a wordpress plugin)

Coding required

MapBox

Leaflet

Google Maps API

Kartograph

Resource for finding geographic data

<https://www.lib.ncsu.edu/gis/data.html>



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GIS Data Services

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Learn About GIS

Overview of GIS

Virtual Campus Courses

GIS Lookup - Search the Libraries' Data Layers:

Keyword Search:

Limit by Geographic Extent:

No Limit - Search All



Search

GIS Lookup: Listing of the Libraries' Data Layer Keywords

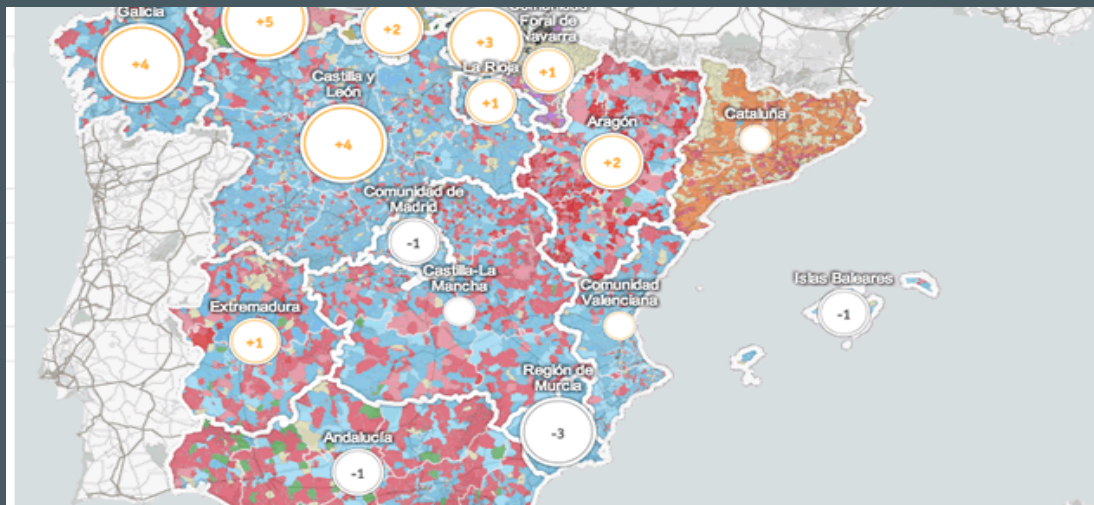
Browsable geodata thesaurus with links to online data, metadata, documentation, web pages.

CartoDB Use Cases

1. Make a map for a website, large-scale display, or mobile application (responsive)
2. Make a static image of a map to include in a report
3. Make an interactive map that supports investigation, drilling-down/filtering data
4. Make a map for quick data exploration of geospatial data
5. Turn your ArcGIS or QGIS projects into web maps
6. Twitter harvest and map tweets (only with paid service)

Developer features

- Write your own custom CSS code to style your map (if you want to)
- Import data from the web using various coding languages
- Integrate your map into a web application using a Javascript package provided by Carto



Strengths and weaknesses

- Compatibility with QGIS and ArcGIS, more sophisticated tools. Link those projects to your Carto account.
- Does not allow you to make your maps or data private unless you upgrade.
- Allows you to write SQL statements and customize the map with CSS

Today's workshop materials

go.ncsu.edu/cartodb