

# CartoDB

## Description

---

[CartoDB](#) is an open source tool to visualize and analyze geospatial data **on the web**, developed by [Vizzuality](#). It is excellent for tracking data (see [these blog posts](#)).

## Cost

---

CartoDB is open source, so you can install the tool on your own server ([instructions](#)), but this is quite complex. You can also use one of the [paid plans](#) to run it in the cloud. There is a [free academic plan](#) which allows for 10 tables and 50Mb of data.

## Input

---

CartoDB supports 2D point, line, and polygon data in the following formats:

`csv` , `tab` , `shp` , `kml` , `kmz` , `xls` , `xlsx` , `geojson` , `gpx` ,  
`osm` , `bz2` , `ods` , and `sql` .

## Output

---

### Visualizations

CartoDB offers a wide [range of visualizations](#) (2D only), which can be created with a very intuitive user interface and shared online (including embedding). These visualizations can be fine-tuned with [CartoCSS](#).

- Points visualizations: simple, cluster, choropleth, category, bubble, intensity, density, and torque (animated visualizations)
- Lines and polygon visualizations: simple, choropleth, category, bubble

Extensive documentation and examples are available on the [CartoDB website](#)

and [blog](#), but for visualizations specific to tracking data, see [these LifeWatch INBO blog posts](#).

## Geospatial analysis

As CartoDB runs on Postgresql, you use the **full Postgres + PostGIS SQL functionality** to analyze the data, including via an [API](#). Data can be exported as `csv`, `shp`, `kml`, `svg`, and `geojson`.

## Statistical analysis

Not supported.

## Limitations

---

- Does not support raster data
- Does not support image exports
- No data limits encountered yet (Peter created visualizations on 450.000 records).