

SOFTWARE AND TOOLS

Software type	Software	Knowledge level	Price
Data analysis	Tabula	Basic	Free
Data analysis	Tableau Public (x)	Intermediate / Advanced	Free
Data analysis	Excel (x)	Basic / Intermediate	Paid
Data analysis	Microsoft PowerBI (x)	Intermediate	Paid
Data analysis	DisplayR	Intermediate	Freemium
Diagram	Rawgraphs	Basic	Free
Diagram	Datawrapper	Basic	Free
Diagram	Infogram	Basic	Freemium
Diagram	Flourish	Basic / Intermediate	Free
Diagram	Excel (x)	Basic / Intermediate	Paid
Network	Gephi (x)	Intermediate / Advanced	Free
Network	Cytoscape	Intermediate / Advanced	Free
Network	Cosmograph	Intermediate / Advanced	Free
Network	Tulip (x)	Intermediate / Advanced	Free
Map	QGIS (x)	Intermediate / Advanced	Free
Map	ArcGIS	Intermediate / Advanced	Paid
Map	Carto	Basic / Intermediate	Freemium
Map	Mapbox	Basic / Intermediate	Freemium
Visualization language	D3.js (x)	Advanced	Free
Visualization language	Processing (x)	Advanced	Free
Visualization language	Vizzu	Intermediate / Advanced	Free
Visualization language	Vega	Intermediate / Advanced	Free

Source: **Attila Bátorfy**: *Adatvizualizáció: Bevezetés az adatok grafikus ábrázolásának elméletébe és gyakorlatába*, ELTE Eötvös Kiadó, 2024

Python tools for data visualization



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All Tools

This page lists OSS libraries for visualizing data in Python. If you see any missing Python tools, please open a [PR](#) for [tools.yml](#). Tools are sorted in each category according to their total downloads (pypi + conda) per month when added to the list. Note that conda downloads are computed by summing total downloads across the defaults channel, conda-forge, and bioconda; data for other channels is not currently included. Also note that the stars, contributors, license and PyPi downloads badges are cached to prevent users hitting the badges rate limits. Caching fails occasionally for some PyPi downloads badges, in which case their live counterpart is instead displayed (identified by a grey background).

Last updated: September 8, 2025

Core

Python libraries on which multiple higher-level libraries are built.

Name	Stars	Contributors	Downloads	License	Docs	PyPI	Conda	Sponsors	Built on
matplotlib				Python Software Foundation					
plotly.py				MIT					
bokeh				BSD-3-Clause					

High-Level Shared API

Libraries sharing the Pandas .plot() API, built upon the core Python or JS libraries.

Name	Stars	Contributors	Downloads	License	Docs	PyPI	Conda	Sponsors	Built on
pandas				BSD					
xarray				Apache-2.0					
hvplot				BSD					
cufflinks				MIT				-	
Pandas-Bokeh				MIT				-	

High-Level

InfoVis Libraries focusing on high-level operations for working with data visually, built upon the core Python or JS libraries.

Name	Stars	Contributors	Downloads	License	Docs	PyPI	Conda	Sponsors	Built on
altair				BSD				-	
seaborn				BSD				-	
holoviews				BSD-3-Clause					
plotly_express				MIT					



Key Principles About Software

Creativity over
software

Every tool has
limits

Learning takes
time

Flexibility beats
certainty