# Open Source Geospatial Foundation

## Empower everyone with open source geospatial

OSGeo

# Open Source Software

OSGeo holds a passionate belief in open source as the best way to build software.

Open source starts off with a license that provides royalty free (re)use of software. Next, open source guarantees access to the source code for audit and modification and the ability to redistribute the software with no additional costs.

A project may choose a license with few restrictions, or an obligation to share improvements.

Using open source offers greater control than you may be familiar with from proprietary (closed) software. You are no longer tied to per-seat licensing or to a single software vendor. Support is available from an ecosystem of service providers and through community participation.

At OSGeo our projects are freely available under OSI certified open source licenses.

# Open source starts with great software

As a software foundation OSGeo hosts a range of projects for all your geospatial needs. Each project is available free of charge under an open source license. Our projects work where you work with cross platform support for Windows, macOS and Linux.

## Cartography and Mapping

Our solutions draw on a history of rich data format and integration support. They offer the perfect environment to integrate, share and communicate your story:

► The **gvSig** project is backed by a passionate community providing a drop-in ready GIS environment focused on complex management and planning problems. Featuring wide format support, excellent discovery tools, creative control.

► The **QGIS** project offers one of the most vibrant and exciting cartographic environments available today. From the easy viewing of vector and raster data to the friendly graphic interface QGIS offers a competitive environment for your next mapping project.

► For those interested in 3D the **Marble** project provides experience for desktop and mobile exploration.

## Analysis and Processing

Processing and analysis is a centerpiece of the foundation starting with our roots in the GRASS GIS project:

► The original **GRASS GIS** project includes 400 built-in analysis, modeling and visualization modules built over 30 years of continuous development. It also server as analitycal back-end in various projects.

► The popular **QGIS** project provides a rich environment for processing with an enthusiastic community of python plugin developers, workflow editor, and more. QGIS integrates with GRASS, R, Orfeo Toolbox and provides accessible user interface for the rich processing libraries and format support developed at OSGeo.

► The **gvSig** project also has you covered with hundreds of analysis plugins available, rich CAD-like editing,

► For something more specialized the **Opticks** project provides tools for remote sensing and imagery.

# Information Technology

The OSGeo community is an enthusiastic supporter of open standards which enables your data and maps to be used in a wide range of web, desktop and mobile applications:

- ▶ When it is time to publishing online OSGeo has you covered with web services provided by **MapServer**, **GeoServer**, **deegree** and more.

- ▶ Processing options extend well beyond the desktop with **PostGIS** database solutions and web processing provided by **ZOO-Project** and **PyWPS** solutions.

- ▶ To search for spatial data we have the **GeoNetwork** and **pycsw** projects.

- ▶ For those interested in web mapping solutions **geomajas**, **GeoMOOSE**, **Mapbender**, **MapGuide** Open Source offer a read-to-use solutions.

- ▶ Content management is available from **GeoNode**.

# Software Development

Open Source remains an amazing environment for software development, all the functionality and power shown above is available to for your remixing pleasure:

- ▶ The C Tribe offers a great foundation for your development with geospatial provided by **GEOS** and **PROJ**, access to hundreds of data formats and processing with **OGR** and **GDAL**.

- ▶ Java developers are supported by the **GeoTools** library.

- ▶ High level processing builds on this base with the **OSSIM** and **Orfeo ToolBox** projects.

- ▶ Web developers are taken care of with the **OpenLayers** library providing standards-based access to everything you can publish.

# Empower everyone with open source geospatial

The Open Source Geospatial Foundation is a software foundation promoting the global adoption of open source geospatial technology.

## Welcome to OSGeo

The foundation directly supports projects serving as an outreach and advocacy organization providing financial, organizational and legal support for our community.

OSGeo is a volunteer driven not-for-profit organization drawing together a wide membership of individuals from around the world. We are pleased to work with our sponsors and partners to foster an open approach to software, standards, data and education.

- **OSGeo Projects:** Powerful open source software for gis professionals and technologists.

- **GeoForAll:** Over 100 educational and research labs from around the world who work with partners to make geospatial education and opportunities accessible to all.

- **Events:** OSGeo projects and local chapters hold a wide range of events from user conferences and code sprints to regional and national FOSS4G events.

- **OSGeo Live:** A distribution of established geospatial open source software, pre-configured with sample data and quickstarts, ready to try out.

To learn more visit **live.osgeo.org**.

## Open Geospatial

OSGeo is pleased to be at the forefront of the shift towards open geospatial:

- **Open Source:** securing a collaborative approach to software development
- **Open Data:** providing freely available information to use as you wish
- **Open Standards:** enabling interoperable software to avoid lock-in
- **Open Education:** removing the barriers to learning and teaching

## FOSS4G

The internationally acclaimed "Free and Open Source Software for Geospatial" conference is our annual global conference.



If you cannot make it to our global conference many regions and countries host smaller FOSS4G events, reach out to your local chapter to learn more.

# Support

## Local Chapters

Starting out with any new technology can be intimidating. OSGeo offers worldwide access to "local chapter" groups to help you get started:

- ▶ Local Chapters provide OSGeo members an opportunity to connect, network and share.

- ▶ Regional Chapters hold events, offer support, training and explore advocacy opportunities in their area.

- ▶ Local chapters can also form around a specific language or industry supporting a geographical diverse community.

- ▶ Each Chapter is different with a mix of GIS professionals, academic champions, software developers and service providers eager to share their stories and help you start your open source journey.

To discover a group near you please visit our website, we are looking forward to welcoming you.

## Service Providers

A broad ecosystem is a key success factor for a viable open source project and providing you with both a rich choice and supplier-independence.

When considering a service provider:

- ▶ **Core Contributors:** Organizations that take on responsibility, maintenance, reviews and releases. These organizations have demonstrated commitment and ability.

- ▶ **Contributors:** Contributors have succeeded in developing a feature or improvement for their customer - and contributed it back for inclusion in the next release.

- ▶ **Other:** Ensure your support contract includes contributing fixes and improvements to the community

Check our website for an online list of service providers and project websites for commercial support options.

## Software Foundation

OSGeo is responsible for supporting our great collection of projects, and fostering new talent and innovation. OSGeo helps projects technically, socially, and professionally ensuring that each project is governed in a fair and sustainable manner.

- ▶ **OSGeo Community** projects are often smaller or in the process of building their community. OSGeo provides community projects friendly environment for collaboration and innovation.

- ▶ **OSGeo Projects** are established, trusted and have shown themselves to be sustainable. In addition being open source, participatory and geospatial these projects have met our stringent "incubation" requirements.

# OSGeo

## CREDITS
Thank you to all our OSGeo volunteers and contributors for inspiring us each day. Content provided by OSGeo marketing committee for this brochure.

QGIS Cartography from Steven Kay and Laura O'Grady.

## SUPPORTING OSGEO
OSGeo is an international effort supported by organizations worldwide. Thanks to our sponsors GeoCat, Boundless, GeoSolutions, Gaia3D, Astun Technologies, Azavea and CARTO for their support.

## CONCEPT & DESIGN
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