

# Get to know OSGeo and how OSGeo is connected to OpenStreetMap

Open Source Software and Open Education making  
use of OpenStreetMap data

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SotM 2019 Heidelberg





**Open Source Geospatial Foundation**  
**Free, Open, Self-organizing, Global**

# What is OSGeo

- OSGeo is a not-for-profit software foundation  
providing organizational, legal, and financial support for projects
- OSGeo is volunteer driven  
Passionate membership of individuals from around the world.
- OSGeo promotes adoption of open geospatial technology  
Partnerships on open approach to software, standards, data and education.

# OSGeo history

- Established in 2006 at a meeting in Chicago, IL with financial support from AutoDesk
- **Note: OSM was there already since 2004**
- Driven by need to organize and navigate rapidly growing field of open source geospatial projects
- Founding members: leading open source geospatial projects - GDAL, MapServer, QGIS, GRASS GIS, PostGIS



# Supporting Open Source Software development

# OSGeo projects

Projects are the OSGeo core focus

25 graduated through a rigorous incubation:

- **Web Mapping:** deegree, Geomajas, GeoMoose, GeoServer, Mapbender, mapfish, MapServer, MapGuide Open Source\*, OpenLayers, PyWPS
- **Desktop:** GRASS GIS, gvSIG Desktop, Marble, QGIS Desktop
- **Libraries:** GDAL/OGR, GEOS, GeoTools, Orfeo ToolBox
- **Spatial Database, metadata catalogs, other:** GeoNetwork, GeoNode, OSGeoLive, PostGIS, pycsw



# OSGeo projects

20 Community projects, 6 are in incubation (\*)

- **Libraries:** actinia, Pronto Raster, Proj\*, FDO, Pronto Raster, OSSIM, pgRouting
- **Web Mapping:** istSOS\*, ZOO-project\*, Oskari\*, GeoWebCache, GC2/Vidi
- **Desktop:** OSGeo4W, Opticks\*
- **Other:** GeoServer Client PHP, MetaCRS\*, Loader, GeoHealthCheck, Portable GIS, TEAM Engine\*





# OSGeo Projects love OSM Data



GDAL OSM Support

OpenLayers / Leaflet OSM Support

OSM based Services as Basemap f.e Mapbender

pgRouting on OSM data

# OSM User love OSGeo Projects



QGIS visualisation & import & lot of possibilities & plugins

a variety of Software for different needs

# OSGeo Annual General Meeting

AGM every year at FOSS4G



[Link to AGM 2019 video](#)

# OSGeo Board

9 elected board members

## Board of directors:



## Officers:

- President
- Secretary
- Treasurer
- Chief Returning Officer - Elections
- OSGeo Committees (including OSGeo Projects)

# OSGeo membership

Open, free membership

- 5600+ members registered on the wiki
- 940 registrations on the website 08/2019
- 33700+ OSGeo mailman server unique subscribers 08/2019
- 425 elected charter members - developers, activists, advocates (2018)
- charter members elect the board of directors
- **Note: 5.3 million OSM registrations (2019-06-07 OSM Stats)**

# Local chapters

- 30 + local chapters all over the world
- organize meetups, conferences, code sprints
- report at Annual General Meeting at Global FOSS4G
- manage translations of documentation



# Local chapters

are they connected to OSM?



# Local chapter FOSSGIS e.V.

German language local Chapter for OSGeo  
Official Local Chapter of OSMF for Germany

- 200+ members
- FOSSGIS & OSM good combination
- maybe different interests



# other OSGeo Local chapters

OSGeo & OSM good combination

- Argentinia
- Oceania
- Italy
- ...

# Conferences: Global

Annual global FOSS4G conference travels around the world



<http://foss4g.org>



FOSS4G 2010  
Barcelona



# FOSS4G 2019 Bucharest

amazing event with over 1000 participants



# FOSS4G covers OSGeo and OSM

focus on FOSS4G - Free open Source Software for Geospatial



meet the developer

talks about new feature in software xy

talks about use cases

... often solutions with OSM

... regional events are often combinations of OSGeo and OSM

# FOSS4G

dancing - singing - musical - pub race



# Conferences: regional

Organized by local chapters, rapidly growing  
many regional FOSS4G conferences per year

- See -> OSGeo Events and -> Travel Grant Program
- FOSS4G SotM Oceania 2019 November Wellington, New Zealand
- FOSS4GUK
- FOSS4G Japan
- FOSS4G North America 2019
- Bolsena Codesprint 2019 – June 24th, 2019
- FOSS4G NL 2019 at Delft University – June 20th, 2019
- Jornadas SIG Libre 2019 – May 29th, 2019
- OSGeo Community Sprint 2019 – May 14th, 2019
- FOSS4G Europe 2018, Guimarães, Portugal
- FOSS4G Asia 2018, Sri Lanka
- FOSS4G BE, Brussels
- FOSS4G Hungary
- GFOSS Italy
- FOSGIS Germany
- OSGeo Irish Local chapter symposium, OSS4G Finland, OSGeo Africa, QGIS conference, ...

# Community sprints

- OSGeo budget supports code and community sprints
- Collaborative sprints with multiple projects
- Community sprints associated with FOSS4G conferences
- Code sprints organized by projects



Community sprint at Linuxhotel by FOSSGIS e.V.

# Community Sprint in Dar es Salaam

The FOSS4G 2018 Community Sprint was held in Dar es Salaam at dLAB Tanzania September 1 to 2, the weekend after the closing sessions of FOSS4G. This sprint brought together nearly 70 members of the OSGeo community, HOT and students from closeby.



Community sprint at FOSS4G 2018 Dar es Salaam (Tanzania)



Fotos: Astrid Emde

Community sprint at FOSS4G 2018 Dar es Salaam (Tanzania)

# Google Summer of Code

<https://summerofcode.withgoogle.com>

- OSGeo serves as umbrella organization for projects
- Smaller open source geospatial projects can also join
- 12 years, 150+ students (\$750,000 +) , 7 students in 2019
- mentors work for free, get to visit Google headquarters



Google Summer of Code

# **Google\_Code-in**

<https://codein.withgoogle.com/archive/>

- OSGeo serves as umbrella organization for project participation in Google code-in
- Fostering pre-university student participation in OSGeo
- 2 years, 649 small tasks for 11 OSGeo projects

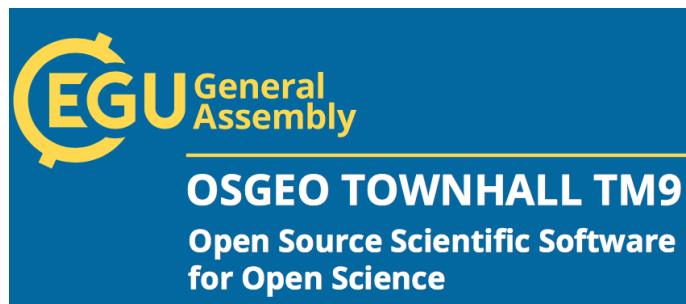


Google Code-in

# **Google Season of Docs-in**

# Sessions at major conferences

- Participation at major scientific and technology conferences
- Open geospatial sessions, workshops, townhalls
- ISPRS, ICC, AGU, EGU, ...
- MoUs with several organizations



# Beyond software

OSGeo works with partners to support and promote

- **Open Source:** collaborative software development.
- **Open Data:** free access to geospatial data
- **Open Standards:** avoid lock-in, use interoperable software
- **Open Education:** learning and teaching without barriers
- **Open Science:** Share data, software, publications
- **MoUs** with 14+ organizations

# How it started

Founded in 2011: MoU between OSGeo and the International Cartographic Association (ICA)



Georg Gartner and Arnulf Christl, renewal in 2015 with Jeff McKenna

# More MoUs

International Society for Photogrammetry and Remote Sensing (ISPRS) signed in 2014.

University Consortium for GIScience (UCGIS) signed in 2016

Association of Geographic Information Laboratories in Europe (AGILE) signed in 2017



Open Geospatial Consortium



YouthMappers (signed in 2018)

US Dol, OGC, LH Corp, IGU, STP India, TIB, GLTN, UNIGIS

# So why not an OSGeo OSM MoU?

people from OSGeo and OSMF talked



- OSM met with OSGeo at the LinuxTag 2006 and the following years
- No MoU signed as OSM does not do that
- we are friends already
- no need for a MoU
- new Category: Like Minded Organizations

# **GeoForAll**

# **OSGeo educational initiative**

Global network of academic research and education laboratories and government/industry partners



# Mission and goals

Making geospatial education and opportunities accessible to all

- Create research and teaching opportunities in open geospatial science
- Build global open access teaching and research infrastructure
- Establish collaborations between academia, government and industry around open geospatial science and education

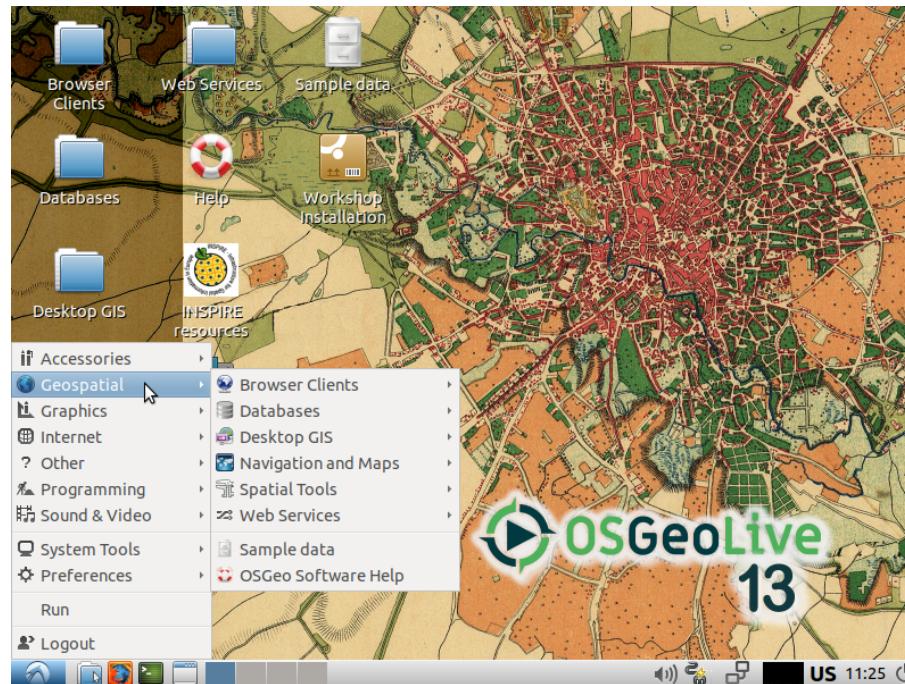
# Map of the labs 2017

over 100 labs globaly in 2017





OSGeoLive 13.0 is out! Lubuntu 18.4  
contains 50+ Open Source Software for Geospatial  
Data & Dokumentation (Quickstart & Overview)





## OSM Data from the region of the actual FOSS4G iD Editor, JOSM, Mapnik



<https://live.osgeo.org>

# Great Combination





Free/Libre and Open Source Software (FOSS)  
Copyleft Mayuri 2004

Enjoy a wonderful SotM 2019 in Heidelberg!

Astrid Emde (OSGeo)

FOSS4G 2011 Denver Everyone's a mapper in their own way"  
performed by Captain Geo, aka Schuyler Erle