

History

MapServer was originally written by Stephen Lime in 1996. Major funding for development of MapServer has been provided by NASA through cooperative agreements with the University of Minnesota, Department of Forest Resources. Currently, MapServer project is coordinated by [Open Source Geospatial Foundation](#)⁽¹⁾ – a foundation created in 2005 for promoting the use and development of open source geospatial technologies. Companies such as *Autodesk*[®] and *DM Solutions* are compromised with OSGEO goals.

1. Open Source Geospatial Foundation
<http://www.osgeo.org>

Credits

- The MapServer was written by Stephen Lime. Major funding for development of MapServer has been provided by NASA through cooperative agreements with the University of Minnesota, Department of Forest Resources.
- PHP/MapScript developed by DM Solutions Group.
- GDAL/OGR support and significant WMS support provided by DM Solutions Group which received funding support from Canadian Government's GeoConnections Program and the Canadian Forest Service.
- Raster support developed by Pete Olson of the State of Minnesota, Land Management Information Center, and maintained by Frank Warmerdam (DM Solutions).
- PostGIS spatial database support provided by Dave Blasby of Refrations Research.
- PDF support developed by Jeff Spielberg and Jamie Wall of Market Insite Group, Inc.
- OracleSpatial support developed by Rodrigo Cabral of CTTMAR/UNIVALI, Brazil.
- Portions Copyright (c) 1998 State of Minnesota, Land Management Information Center.
- Portions derived from Shapelib, Copyright 1995-1999 Frank Warmerdam.
- Supporting packages are covered by their own copyrights.

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Additional information:

MapServer home page
<http://mapserver.gis.umn.edu>

or



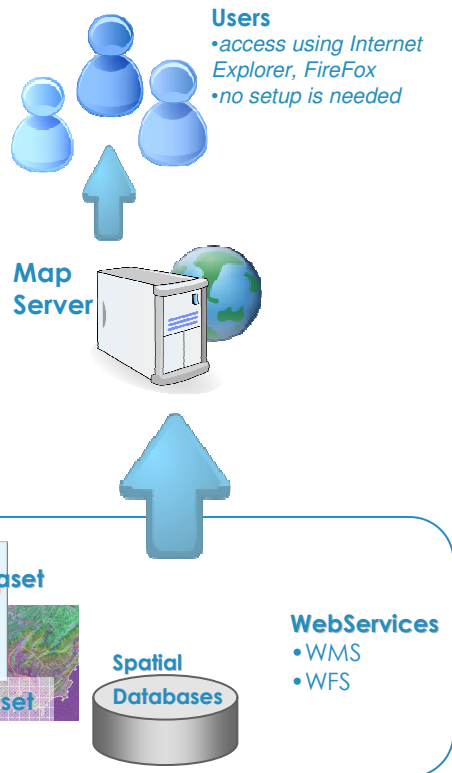
Spatially enabling your maps through the web

- Flexibility
- Performance
- Reliability
- Interoperability

MapServer

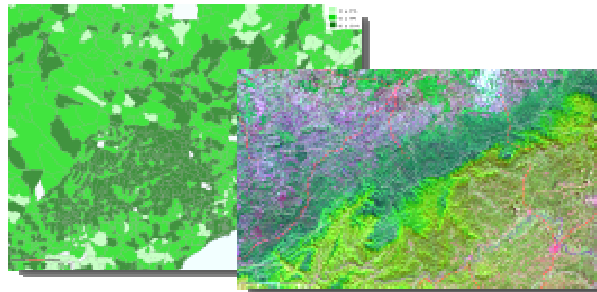
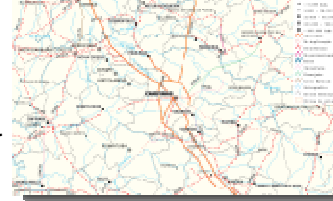
MapServer is a set of Open Source tools for building spatially-enabled web mapping applications and services. MapServer applications – usually referred to as “webmapping applications” or “webGIS” – deploy as major advantages:

- Geographical Data Centralization
- No setup is needed at the end user’s machine – instant access through web browsers
- Interoperability – allows to integrate different GIS dataset on an unique environment



Features

- Supports dozens of industry standard raster and vector formats – see section **Supported formats**
- Spatial Databases connection support: ArcSDE, Oracle Spatial, PostGIS, MySQL & ODBC
- Automatic Legend, Scale Bar and Reference Map generation
- Scale based rules for rendering objects
- On-the-fly projection for vector and raster data
- Sophisticated rule-based labeling system
- TrueType labeling and support for curved labels
- Spatial and attribute-based query support
- MapScript API – brings up MapServer objects available for programming languages (C#, PHP, Python, Java, Ruby and Perl)
- On-the-fly classification and resampling of raster data
- OGC⁽¹⁾ compliant



1. Open Geospatial Consortium
<http://www.opengeospatial.org>
* MapServer implements the following specifications: WMS, WFS, WCS, WMC, GML, SLD & Filter Encoding.

Supported formats

Vector data:

Arc/Info Binary Coverage
Comma Separated Value
DODS/OPeNDAP
DWG
DXF
ESRI ArcSDE
ESRI Personal
GeoDatabase
ESRI ShapeFiles
FMEObjects
GML
GRASS
INTERLIS
Mapinfo
Microstation DGN
MySQL spatial extension
ODBC
OGDI Vectors
Oracle Spatial
PostGIS
S-57 (ENC)
SDTS
SQLite
U.S. Census TIGER/Line
UK .NTF
VRT - Virtual Datasource

Raster data:

Arc/Info Binary Grid (.adf)
ENVI .hdr Labelled Raster
Envisat Image Product (.n1)
Erdas Imagine (.img)
ECW (ERMapper)
ESRI .hdr Labelled
Graphics Interchange Format (.gif)
GRASS Rasters
Hierarchical Data Format (4 & 5)
Idrisi Raster
ILWIS Raster Map (.mpr,.mpl)
JPEG JFIF (.jpg)
JPEG2000
Meteosat Second Generation
MrSID
PCI Geomatics Database File
PCRaster (.map)
Portable Network Graphics (.png)
RadarSat2 XML (product.xml)
Raster Matrix Format (*.rsw, .mtw)
SAR CEOS
SGI Image Format
TIFF / GeoTIFF (.tif)
USGS ASCII DEM (.dem)
Vexcel MFF
VTP Binary Terrain Format (.bt)
(and more)

MapServer uses **GDAL** and **OGR** libraries for providing access to a wide variety of raster and vector data formats. Full formats list is available at <http://www.gdal.org> .

Output supported formats:

GIF
JPEG
PNG
DXF
PDF
SVG
SWF
WBMP
(GDAL formats)

