

## 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](#)<sup>(1)</sup> – a foundation created in 2005 for promoting the use and development of open source geospatial technologies. Companies such as *Autodesk*<sup>®</sup> and *DM Solutions* are committed to 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

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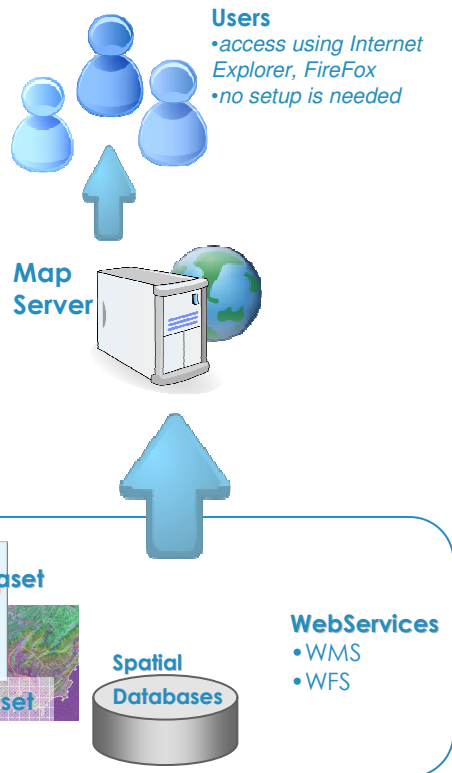
Spatially enabling your maps through the web

- Flexibility
- Performance
- Reliability
- Interoperability

# MapServer

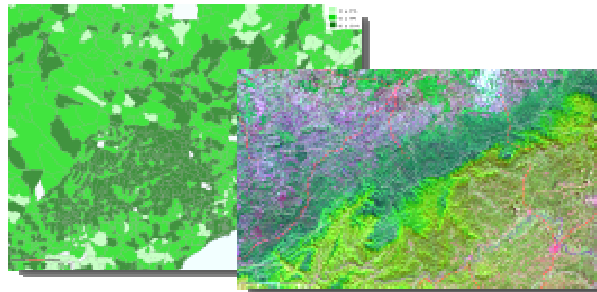
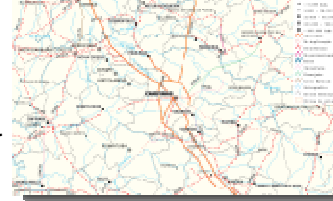
MapServer is a set of Open Source tools for building spatially-enabled web mapping applications and services. MapServer applications – usually referred as “webmapping applications” or “webGIS” – deploy as major advantages:

- 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<sup>(1)</sup> 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)

