

MapServer Project Status

Thomas Bonfort, Terriscope

Frank Warmerdam

Daniel Morissette, Mapgears

Jeff McKenna, Gateway Geomatics



MapServer Project Status

- Introductions
- History
- Statistics
- Highlights of 2009-2010
- How to contribute
- Q & A

Jeff McKenna

- Documentation
- MS4W Builds



Frank Warmerdam

- Raster formats (GDAL)
- Vector formats (OGR)
- OGC WCS
- Reprojection (PROJ4)

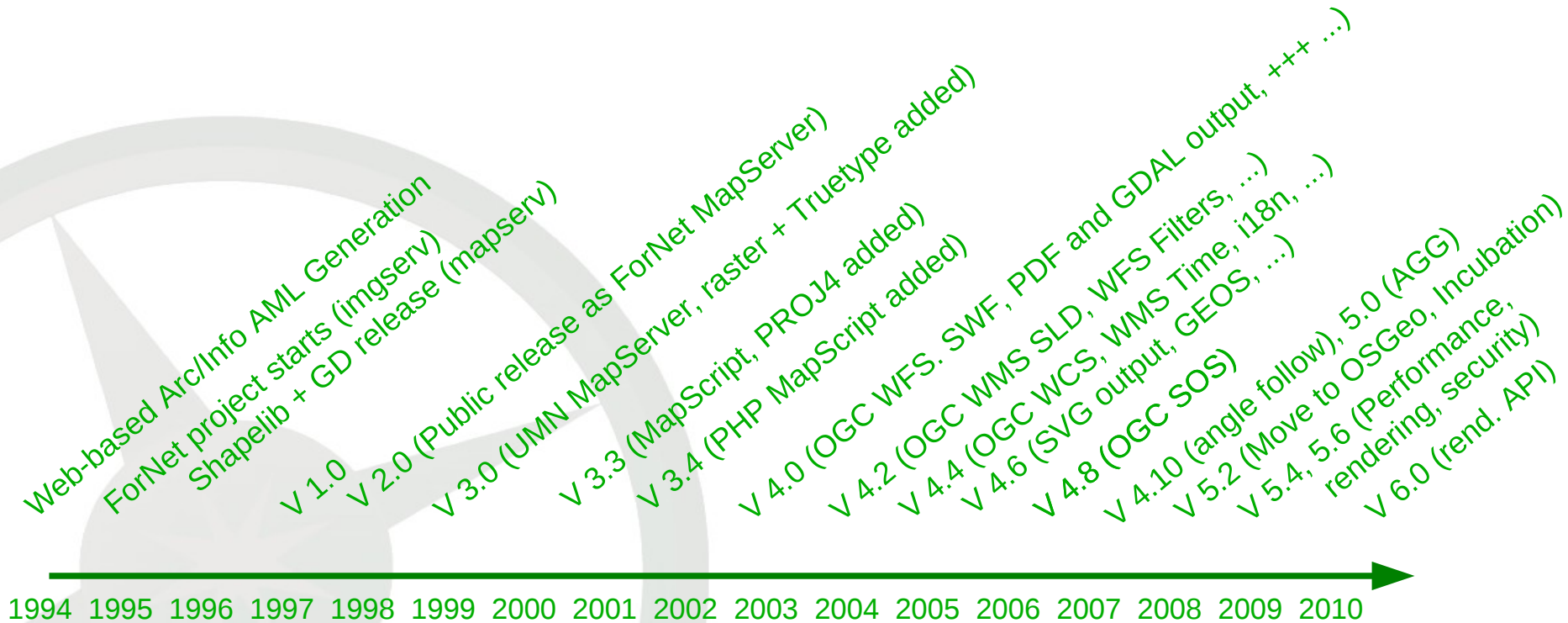
Thomas Bonfort

- AGG Rendering
- Vector Rendering
- Dynamic Chart Symbols

Daniel Morissette

- OGC WMS support
- PHP MapScript
- OGR Support
- Build System
- Release Manager
- ... and a bit of everything else...

History







Statistics

- MapServer-users
 - 1878 members
 - ~15 posts/day (2010 so far 2500: 2009: 4900, 2008: 5400)
- MapServer-dev
 - 392 members
 - ~4 posts/day (2010 so far: 800)
- IRC #mapserver: 30+ people
- PSC: 11 members
- 22 committers, 177k lines of code
- Downloads? (MS4W: 2-3k/month?)

MapServer PSC

- Steve Lime (chair)
- Daniel Morissette
- Frank Warmerdam
- Yewondwossen Assefa
- Howard Butler
- Steve Woodbridge
- Perry Nacionales
- Tom Kralidis
- Jeff McKenna
- Umberto Nicoletti
- Tamas Szekeres
- Thomas Bonfort

Binary Distributions

- Windows
 - MS4W
 - OSGeo4W
 - FWTools
- MacOSX
 - King Chaos
- Linux
 - FGS
 - UbuntuGIS
 - DebianGIS

Highlights of 2009-2010

- 5.6.x Releases
- Code Sprints
- 6.0 Release
- WMS Performance Shoot-out

5.6 Release

- 5.6.0 – December 12, 2009
- 5.6.1 – January 1, 2010
- 5.6.2 – March 20, 2010
- 5.6.3 – March 22, 2010
- 5.6.4 – July 9, 2010
- 5.6.5 – July 14, 2010

5.6.x Release

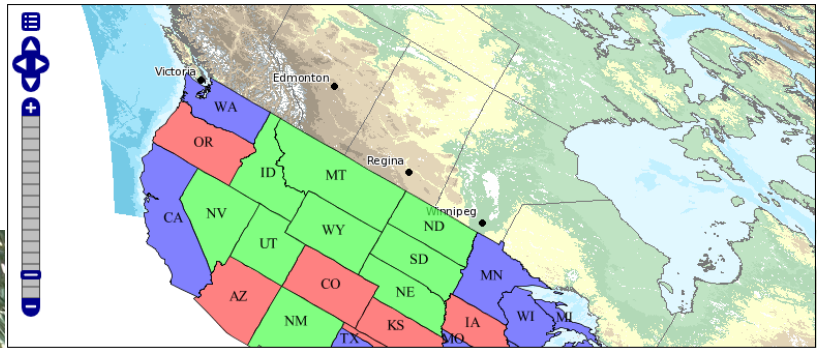
- XML Mapfile schema and XSLT (ability to convert an XML mapfile into a regular mapfile)
- One-pass query processing
- Improve control of output resolution
- Labeling enhancements: ability to repeat labels along a line/multiline
- Security fixes

Security Releases

- MapServer 5.6.4/5.6.5 and 4.10.6, July 2010
- Reported that some of the mapserv CGI command-line arguments used by developers for debugging and testing the software constitute a security risk that could potentially be exploited remotely
- More issues with general use of static buffers will have to be dealt with over time in future releases

Code Sprints

- New York, February 2010
 - ~10 MapServer contributors
 - Also GeoServer, PostGIS, OpenLayers, GeoMOOSE
 - 6.0 release plan discussions



Code Sprints

- FOSS4G 2010, Barcelona – tomorrow!
 - 6.0 release plan
 - Discuss new features, future work
 - You are invited! @Citilab-Cornellà ([map](#))

Code Sprints

- Winter/Spring 2011: Montreal or Quebec City



6.0 Release

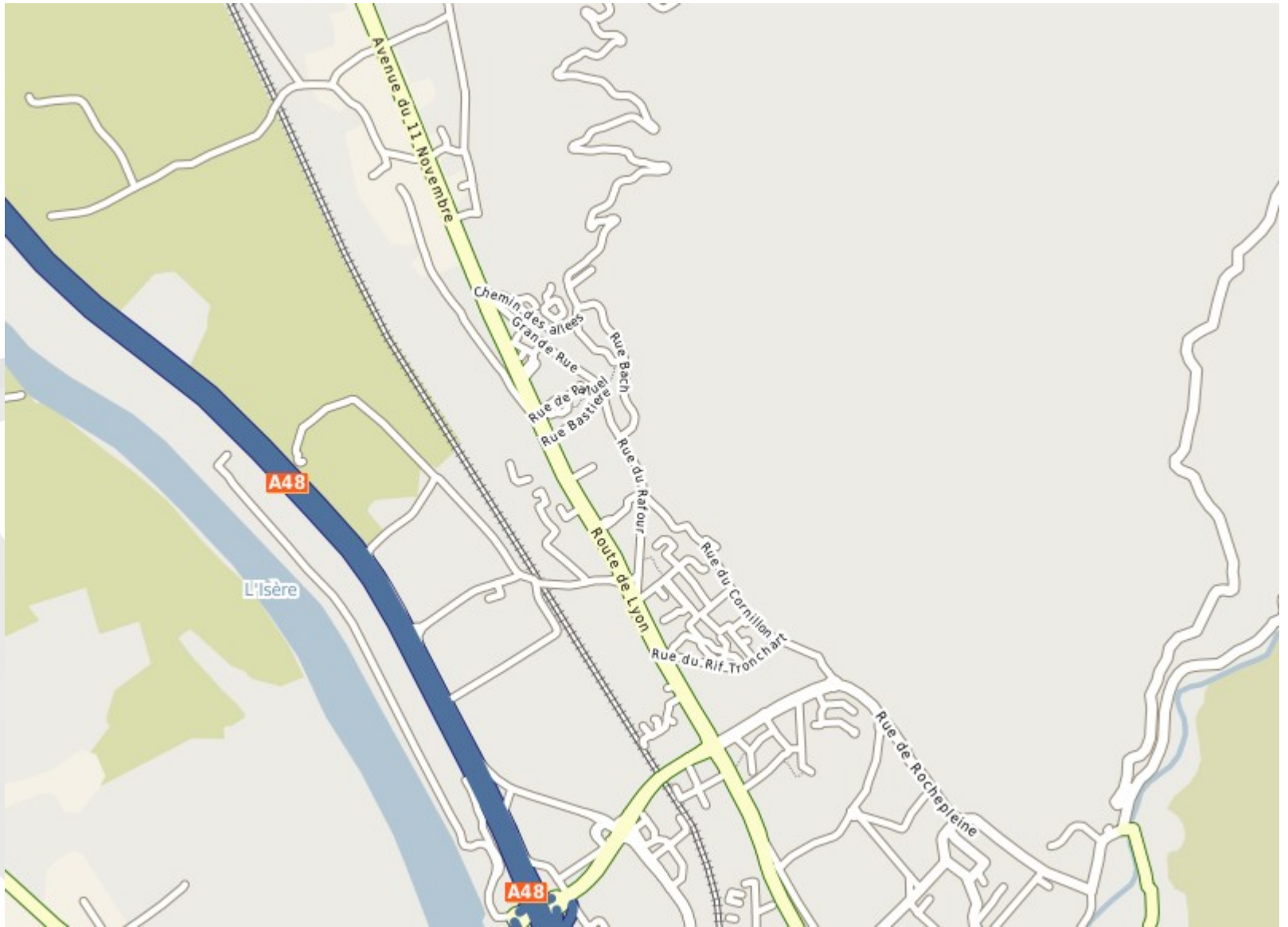
- Release date not set yet
- 6.0 features:
 - Automatic XML Mapfile loading
 - Direct Tile Caching support
 - Expression parser overhaul
 - Rendering/labeling enhancements

Expression Parser Overhaul

- Why?
 - Logical expression support inefficient
 - Opportunities for expression use elsewhere
- Benefits
 - Performance improvements
 - Addition of geometry token type and spatial operators (e.g. intersects)
 - Support for OGC filters to/from MapServer expressions
 - Support for string expressions for formatting label text (e.g. 1234.5678 => 1,234.57)
 - Support for geometry expressions (e.g. GEOMTRANSFORM (buffer([shape], 100, meters)))

Rendering and Labeling Enhancements

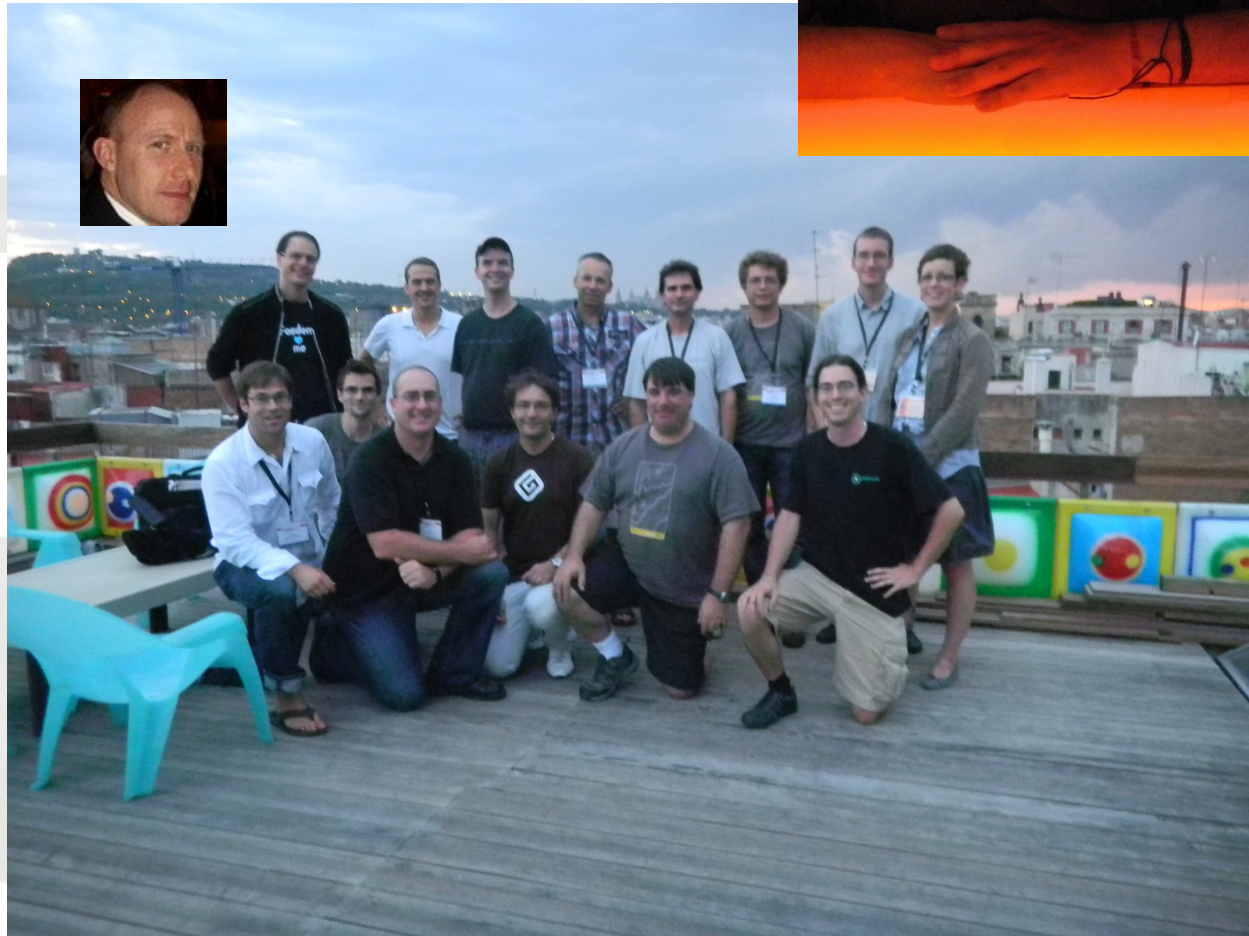
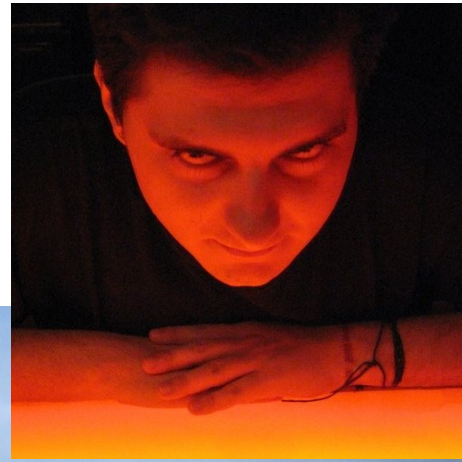
- Deprecation of annotation layers replaced by style block inside label
- New Rendering API
 - Why? Mainly a source code maintenance issue to facilitate long term maintenance and addition of new features
 - Keep all output formats in synch feature-wise
 - Improves SVG and PDF output through Cairo
 - e.g. WMS GetMap with FORMAT=PDF will work
 - KML Output (SoC project)



Future Plans

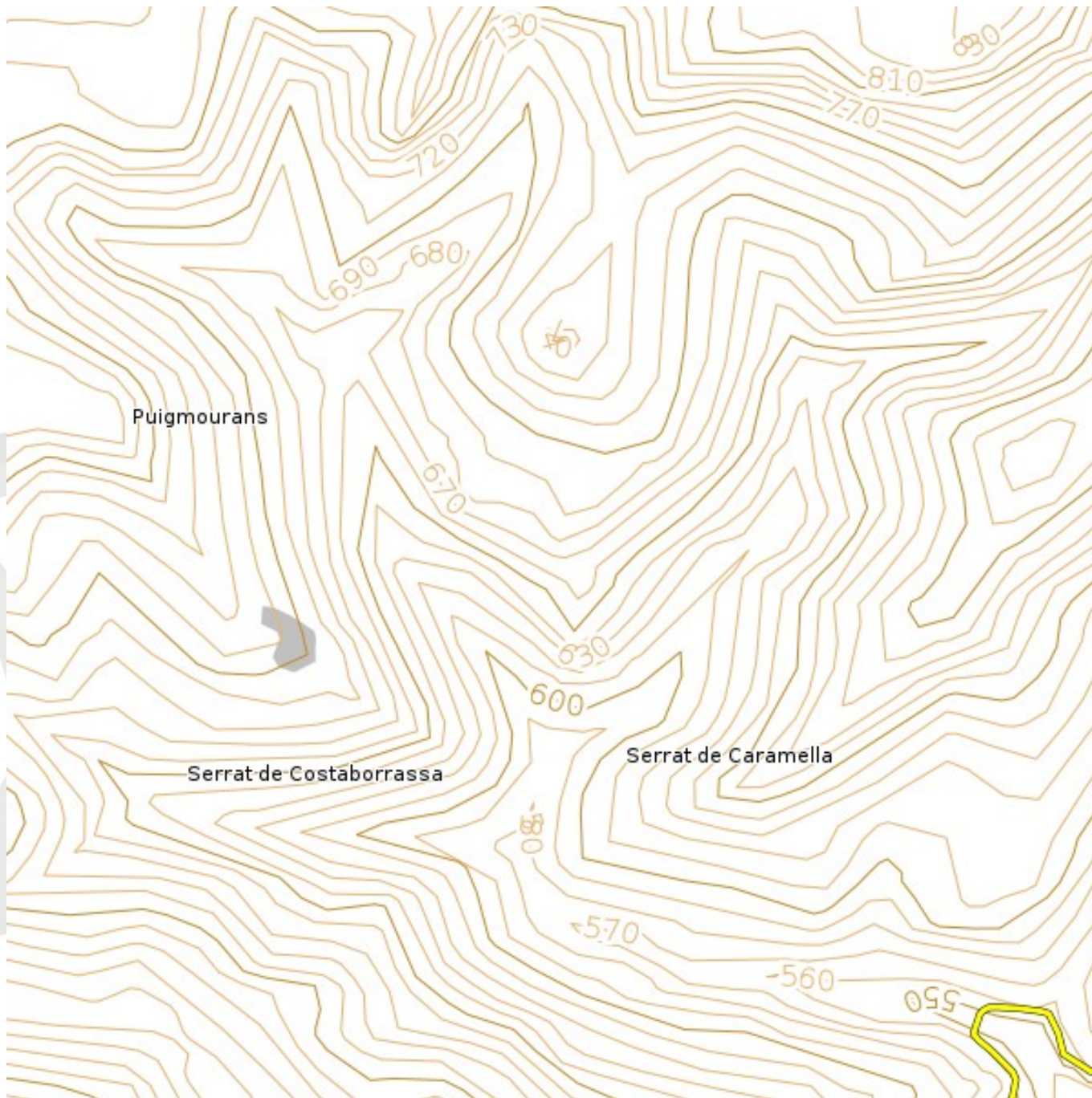
- Named Styles and Labels
- Integrated “stack”
 - WFS-T (ZOO vs TinyOWS)
 - Tile Caching
 - mode=openlayers
 - OGR Output Formats

WMS Performance Shoot-out

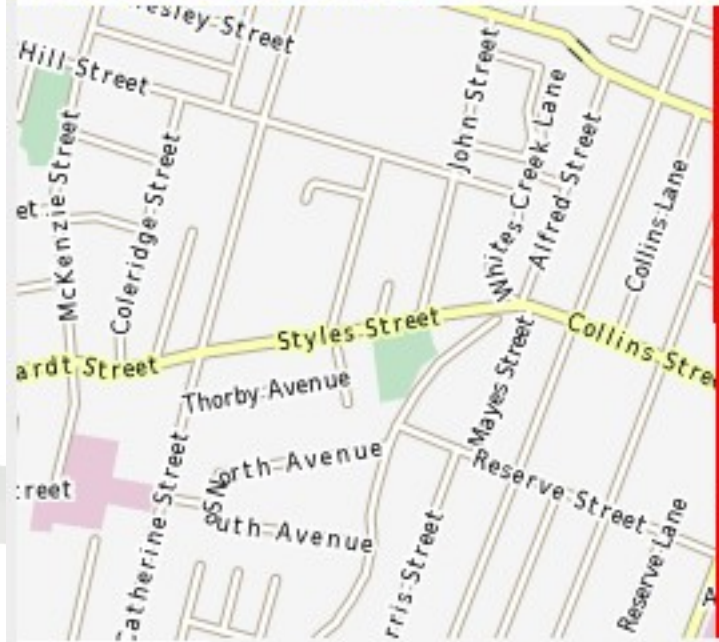


WMS Performance Shoot-out

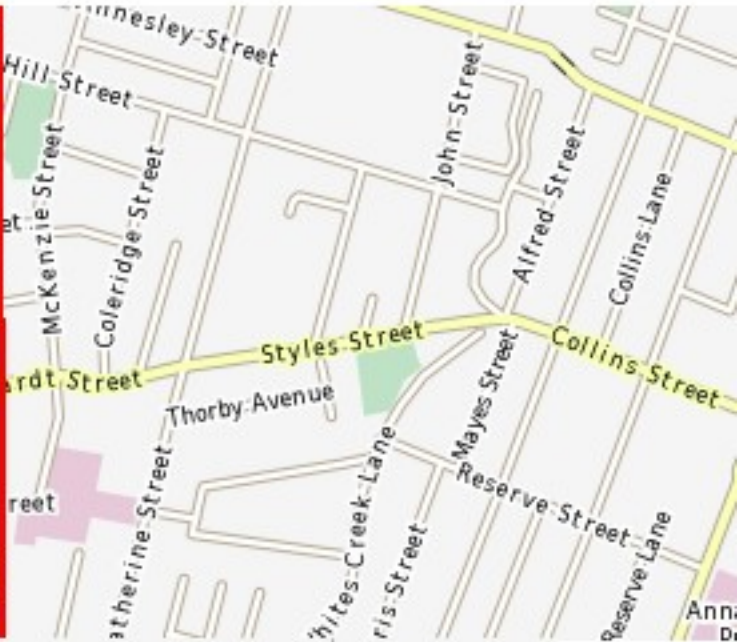
- MapServer vs 7 other mapping engines
- 4th edition of the exercise, held yesterday
- More info at http://wiki.osgeo.org/wiki/Benchmarking_2010
- Highlights of improvements to MapServer:
 - Large DBF support
 - Improving labels on curved lines (RFC-60)
 - Handling label precision



MAXOVERLAPANGLE 0



MAXOVERLAPANGLE 22.5



S North Avenue
S South Avenue

How to Contribute?

- Users:
 - Beta and release candidate testing
 - Bug reports in Trac, including test cases
 - Documentation (wiki, report issues in Trac)
 - Answers on the mapserver-users list and IRC
- Developers:
 - Bug fixes/patches
 - New features
 - Binary builds

Questions - Discussion

