GeoServer: Past, Present, Future

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What is GeoServer?

- Geospatial Web Server
  - vector and raster data
- Open standards
  - WFS
  - WMS
  - WCS
- Gateway to the “GeoWeb”
What is GeoServer?
The Past

- WFS
- PostGIS
- WFS-T
- WMS
- WEB UI
- Windows Installer
- Shapefile
- GEOS
- Validation Engine
- PostGIS WKB
- Spanish Translation
- Data Directory
- WMS Reprojection
- MapBuilder Demo
- KML
- SLD
- WMS CITE
- WMS Rendering
- Spring
The Past

- PSC
- German Translation
- Raster
- Chinese Translation
- OpenLayers Map Preview

2007
- WMS Filtering
- WCS
- Portuguese Translation
- WWW Directory

2008
- WFS 1.1
- WFS Reprojection
- WMS Performance
- GeoRSS
- GeoJSON
- Dutch Translation
- Layer Security
- WCS 1.1

2008
- Security
- WFS Versioning
- Templates
- Coverage Featureinfo
- Watermarking
- Coverage Templates
- ECW, MrSID, JPEG2K via GDAL
- Dutch Translation

2009
The Present

- ArcSDE Multiversion
- ArcSDE Geomless
- JNDI
- 3D KML
- Vector Pyramids
- WMS Limits
- KML Regionation
- KML Extrudes
- Oracle NG
- DB2 NG
- ArcSDE Raster
- CSV/Excel
- JDBC Mosaic
- WMS Decorations
- Wicket UI
- PostGIS NG
- 2009
- Mac Installer
- SQL Server
- Curved Labels
- Hatched Fills
- HTML Imagemap
- REST Interface
- Charting
- Configuration
- Raster Improvements via GDAL
- GeoSearch
- Dynamic Symbolizer
- OGR Output
- Styler
- Directory Store
- Security UI
- 2010
The Year in Review

- 489 bug fixes
- 1682 commits
- 7 releases

* Without October, November, December
Bug Fixes

The chart shows the number of bug fixes from 2004 to 2009. The number of bug fixes increased significantly from 2006 to 2007, peaking in 2009.
Downloads
Mailing List Traffic

- 2004: 100
- 2005: 1200
- 2006: 2400
- 2007: 4000
- 2008: 4800
- 2009: 5000
GeoServer International

- English – 987 members
- Brazilian – 300 members
- Chinese – 282 members
- Italian – 54 members
- Spanish – 53 members
2.0!
New UI

- Ajax
- Submit-Apply-Save
- Extensible
Security UI

- Users and roles
- Data security
- Service security
Application Schemas

- Complex feature schemas
- Feature chaining
KML

- Super Overlays
- Geo Search
- Extrudes
- Partial 3D
Rendering

- **Labels**
  - curved labeling
  - repetition
  - wrapping
  - displacement

- **Dynamic symbolizers**
  - hatched fills
  - dynamic glyphs

- **Resource limits**
• RESTful configuration
• Styler
ArcSDE Raster

• Arbitrary number of bands and pixel depth
• Color maps
• Raster catalogs
ArcSDE Miscellaneous

- Scalability with sessions
- Multi-version tables
- Geometryless
- JNDI
Raster Improvements

• GDAL support
  – more formats
  – robust bindings

• Mosaics
  – automated index creation
  – transparency

• Coverage rendering
Databases

• “NG” architecture
  – security
  – performance
• Improved PostGIS and Oracle
• SQL Server
• JNDI connections
Extensions

- Tiles and pyramids in the database
- Vector pyramids
- Charts
- HTML image maps
On the Horizon

- Database configuration storage
- Multi-dimensional coverages
- Service profiles
- Web Processing Service
- Scripting
Thanks!

http://geoserver.org

Questions?