GEOJSON

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WHAT IS GEOJSON?

- Structured information about geospatially-bounded things (aka "features") and their properties
- Using JavaScript Object Notation
- Simplifies as much as possible
GEOJSON HISTORY

- Discovered on Freenode: #openlayers and #gdal, late 2006
- Informal WG launched 2007-03-15
- 375 Messages later...
- Format Specification published 2008-06-18
- Informal WG moved to GitHub 2011-09-22
- draft-butler-geojson-00 submitted 2014-01-08
WHERE WE ARE NOW

- GeoJSON is improving data interchange
- Maps abound, processes are evolving
- Intense demand for improvement
INFLUENCES

- OGC Simple Features Specification
- W3C Basic Geo Vocabulary
- GeoRSS
- Atom
RELATED WORK

- GML, GPX, KML
- IETF geopriv WG (RFC 5870 - geo URI scheme)
- Schema.org
- JSON-LD
RELATED WORK

W3C/OGC Spatial Data on the Web WG

• Not developing technologies
• Considering GeoJSON
APPLICATIONS

Almost any kind of geospatial JSON data interchange

- HTTP CRUD and JavaScript APIs
- Spatial database queries
- Alerting and geo-fencing protocols
- Defining coverage of networked mobile apps
- Engineering basis for geo protocol buffers
WHY THE IETF?

- Agreement with the IETF mission and its principles
- Desire to have GeoJSON join other JSON RFCs
- History of interaction between informal GeoJSON WG and geopriv WG
PROPOSED WG SCOPE

- Narrow as possible
- Start with draft-butler-geojson-05
- More precisely specify the GeoJSON format
- Document best practices discovered since 2008
- Investigate implications of recent JSON RFC 7159
- Alignment with work such as JSON Text Sequences and I-JSON (RFC 7464/7493)
HOW MUCH WORK REMAINS?

- Extensibility of GeoJSON
- Consideration of other geometry primitives
LINKS

• Presentation on the Web: http://geojson.org/ietf-92-presentation/
• Presentation source: https://github.com/geojson/ietf-92-presentation
• Proposed charter: https://github.com/geojson/draft-geojson/blob/master/charter.md