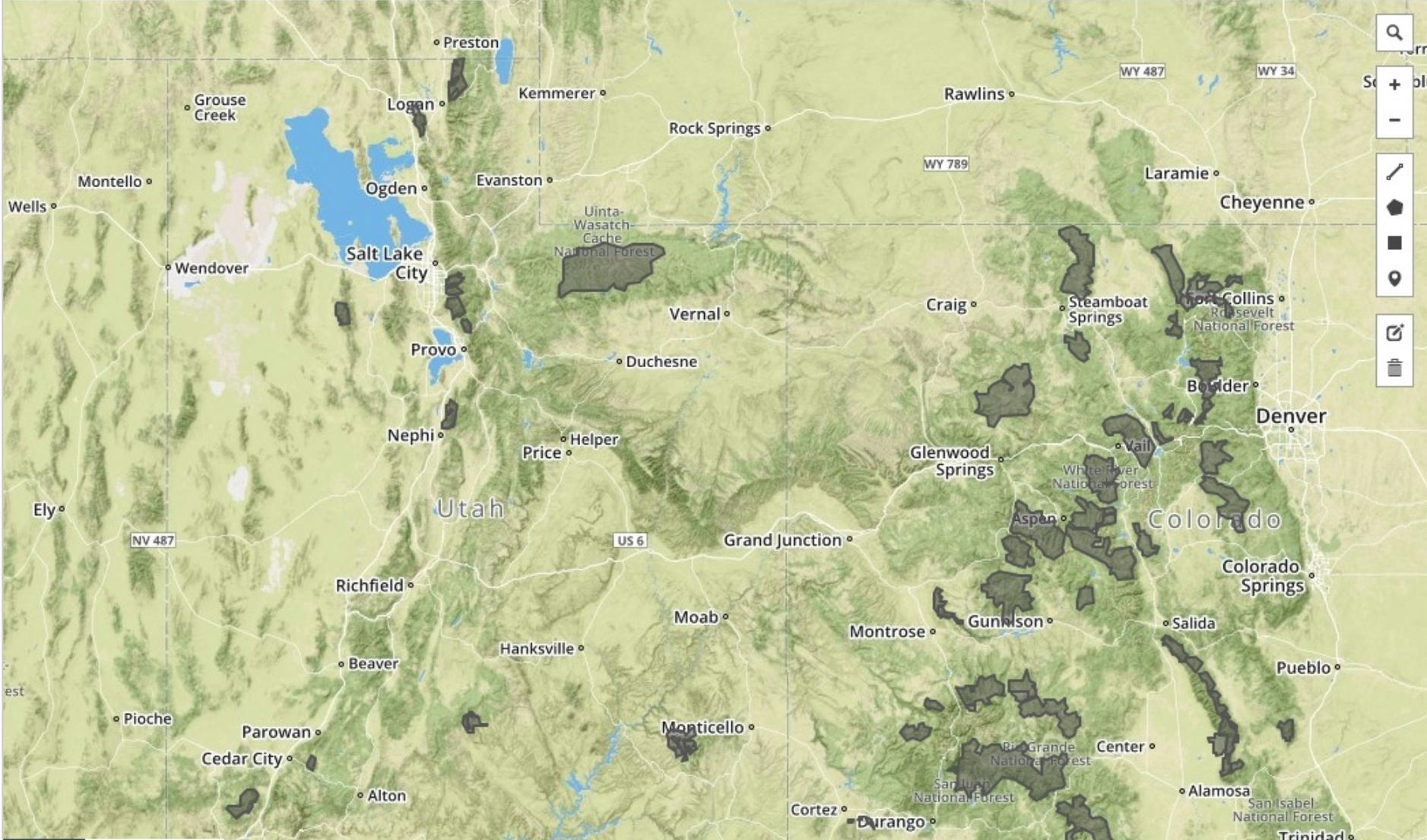# GEOJSON

Howard Butler, Martin Daly, Allan Doyle, Sean Gillies, Stefan Hagen, Tim Schaub, Erik Wilde

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
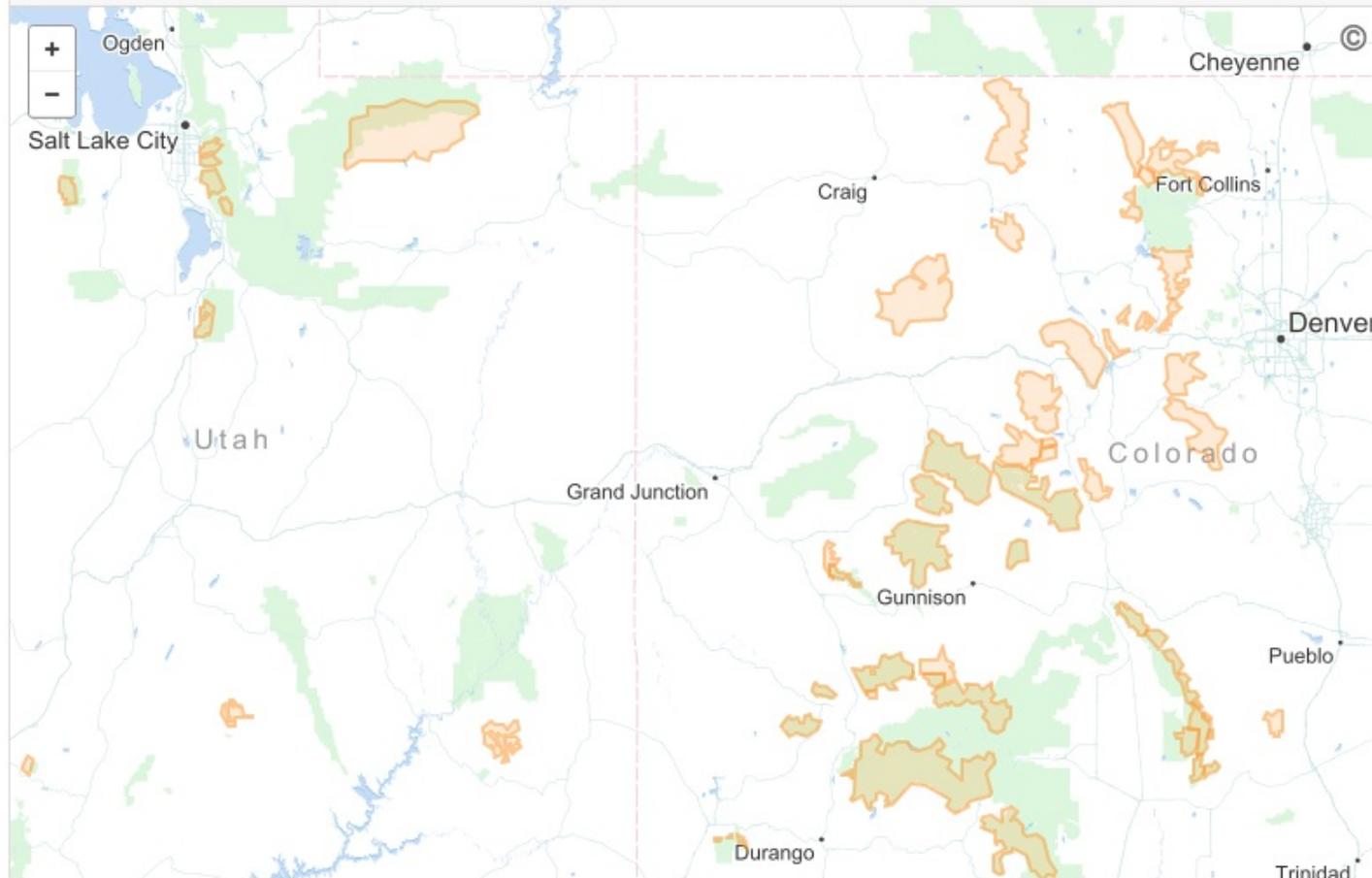- draft-butler-geojson-00 submitted 2014-01-08

GitHub Gist   Search…   All Gists   👤 sgillies + 🐙 ⏻

👤 **sgillies** / **coutwildrnp.json**   ⚙ ▾ | ✏ Edit | 🗑 **Delete** | ★ Star 0
Created 2 minutes ago

<> **coutwildrnp.json**   Raw

<> **Code**

─○─ **Revisions**   1

Embed URL

`<script src="https:` 📋

HTTPS clone URL

`https://gist.githuŁ` 📋

You can clone with **HTTPS** or
SSH.

⬇ **Download Gist**

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
- draft-butler-geojson: http://tools.ietf.org/html/draft-butler-geojson-05