

Intro to GeoJSON

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<https://pmacmaps.github.io/>



Topics We'll Cover

- Review common ways to share geographic data on the web/internet
- Introduce JSON
- Introduce GeoJSON
- Demo of GeoJSON in a web map

Geo Data on the Web

- Esri services
- OGC services
- GeoJSON
- KML
- ...

Esri Services

- Map Service
- Feature Service
- Image Service
- Geocode Service
- Geoprocessing Service

Open Geospatial Consortium

- International organization that makes open standards for global geospatial community
- Web Map Service
- Web Map Tile Service
- Web Feature Service
- Web Processing Service

JSON

- JavaScript Object Notation
- Lightweight data-interchange format
- Easy for humans to read and write
- Easy for machines to parse and generate
- Based on a subset of the JavaScript language

JSON Example

- [Harrisburg Sites & Parks](#) JSON file
- JSON can be used to generate content for websites
- [Create content from JSON demo](#)

GeoJSON

- Geographic version of JSON
- May represent a geometry, a feature, or a collection of features
- supports Point, LineString, Polygon, MultiPoint, MultiLineString, MultiPolygon, and GeometryCollection
- Features contain a geometry object and additional properties

GeoJSON Example

- [Harrisburg Sites & Parks](#) GeoJSON file
- GeoJSON can be used as a data source for web maps
- [GeoJSON web map demo](#)

Resources

- [GeoJSON Specification](#)
- [GeoJSON/JSON formatter](#)
- [JSON](#)
- [Open Geospatial Consortium](#)
- [ArcGIS Services](#)
- [Leaflet.js \(web mapping library\)](#)