

Working with Geospatial PDFs

Geospatial PDF

What

A map document that relates a region on the page to a region in physical space.

It can contain common geometries:

- Points
- Lines
- Polygons

Why

- Paper maps can be cumbersome
- Easy to record accurate data
- Collect points, lines, areas
- Measure distance, perimeter, and area
- Capture georeferenced photos

How Do You Get a Geospatial PDF?

Companies that support Geospatial PDFs

- Avenza Systems
- ESRI
- Bentley
- Pitney Bowes
- SAFE Software
- TerraGo Technologies
- Hexagon Geospatial

Common ways to work with Geospatial PDFs

- [Avenza Maps](#)
- [ArcMap 10.5.1 \(ESRI\)](#)
- [CalTopo](#)
- [The National Map \(USGS\)](#)

Other Tools

- [QR Code Generator](#)
- [Dropbox](#)
- [Google Earth](#)

Generating Geospatial PDFs Using ArcMap

10.5.1

- Add data to the table of contents
- Switch from the data view to the layout view
- Set up your layout:
 - Title, Scale Bar, North Arrow, Legend, Grid, etc.
- Go to File > Export
- Choose where to save the PDF
- Title the PDF
- **Go to the 'Advanced' tab and check "Export Map Georeference Information"**
- Your Geospatial PDF is ready!

Pros

Easy to use for those highly familiar with the software

Level of customization

Cons

High Cost

Very technical software

Generating Geospatial PDFs Using CalTopo

- Navigate to the [CalTopo](#) website
- Zoom to area of concern
- Select base map
- Add desired data:
 - Provided by CalTopo
 - KML
 - Draw on map
- Print to PDF:
 - Select scale, size, add title
- Your Geospatial PDF is ready!

Pros

FREE
Fairly easy to use
Many base map options
Less familiarity for some
Straight to KMZ/KML or GPX

Cons

Some imagery seems dated
Less customization
Less Data manipulation

Downloading Geospatial PDFs Using The National Map

- Navigate to the [National Map Viewer](#)
- Find products associated with your area of interest
- View Results
- Download and save
- Your Geospatial PDF is ready!

Pros

FREE

Easy to use

Perfect maps & scales 1:24000

Cons

No customization

No data manipulation

Working with Avenza Maps

Free Version

- \$0.00
- Able to purchase maps
- Can only have 3 geospatial PDFs loaded at one time
- No custom symbology
- Recreational use only

Plus Version

- \$29.99/yr
- Able to purchase maps
- Unlimited number of geospatial PDFs loaded at one time
- No custom symbology
- Recreational use only

Pro Version

- \$129.99/yr
- Able to purchase maps
- Unlimited number of geospatial PDFs loaded at one time
- Custom symbology
- Supports **.shp's**
- For commercial & professional use

Take some time during the break
to try adding maps to Avenza

If you have any questions please
ask!