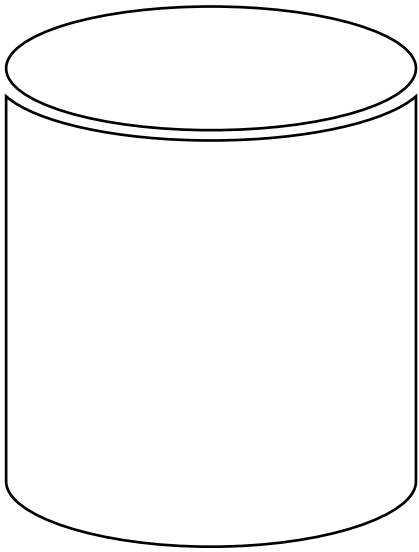




entMap Pipeline for Raster



godaltrainstatede



**Geography PRIDE**

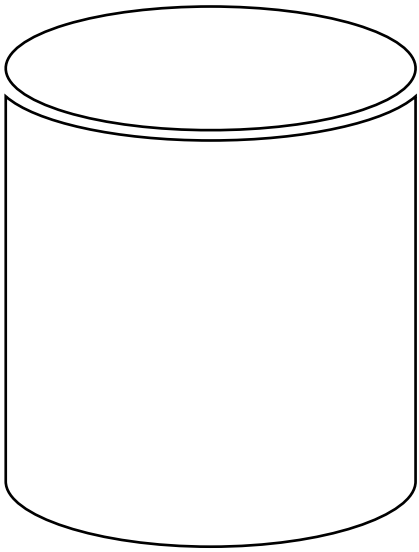


**gdalwarp**

**-te \$BBOX**



**Hillshade & Orthoimage Rasters from USGS GeoPDFs**



**G**

**e**

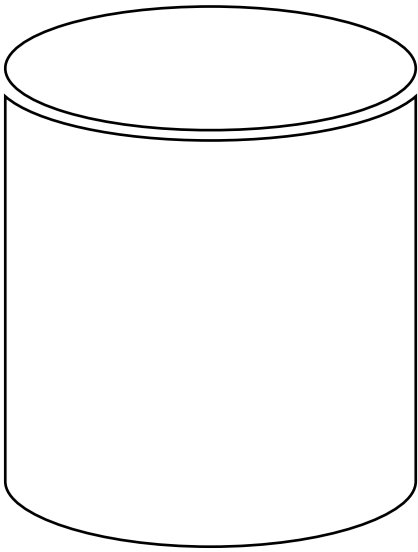
**O**

**T**

**I**

**F**

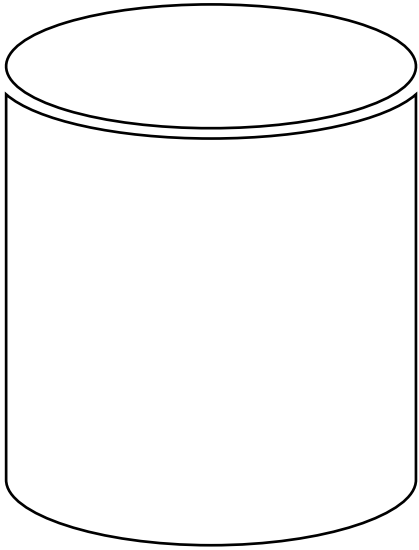
**F**





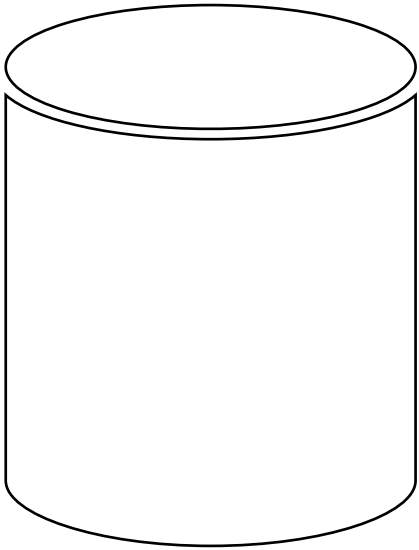
<http://RoboLabs.com/gdal-geopdf>

Working examples on how to extract images from GePDF



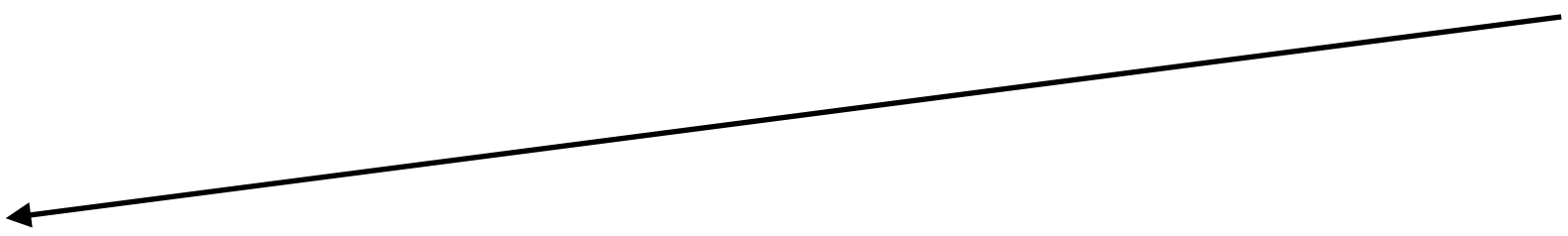


**VRT of *many*  
7.5 minute  
GeoTIFF  
Images**



**WebP  
encoded  
Raster  
Tiles**



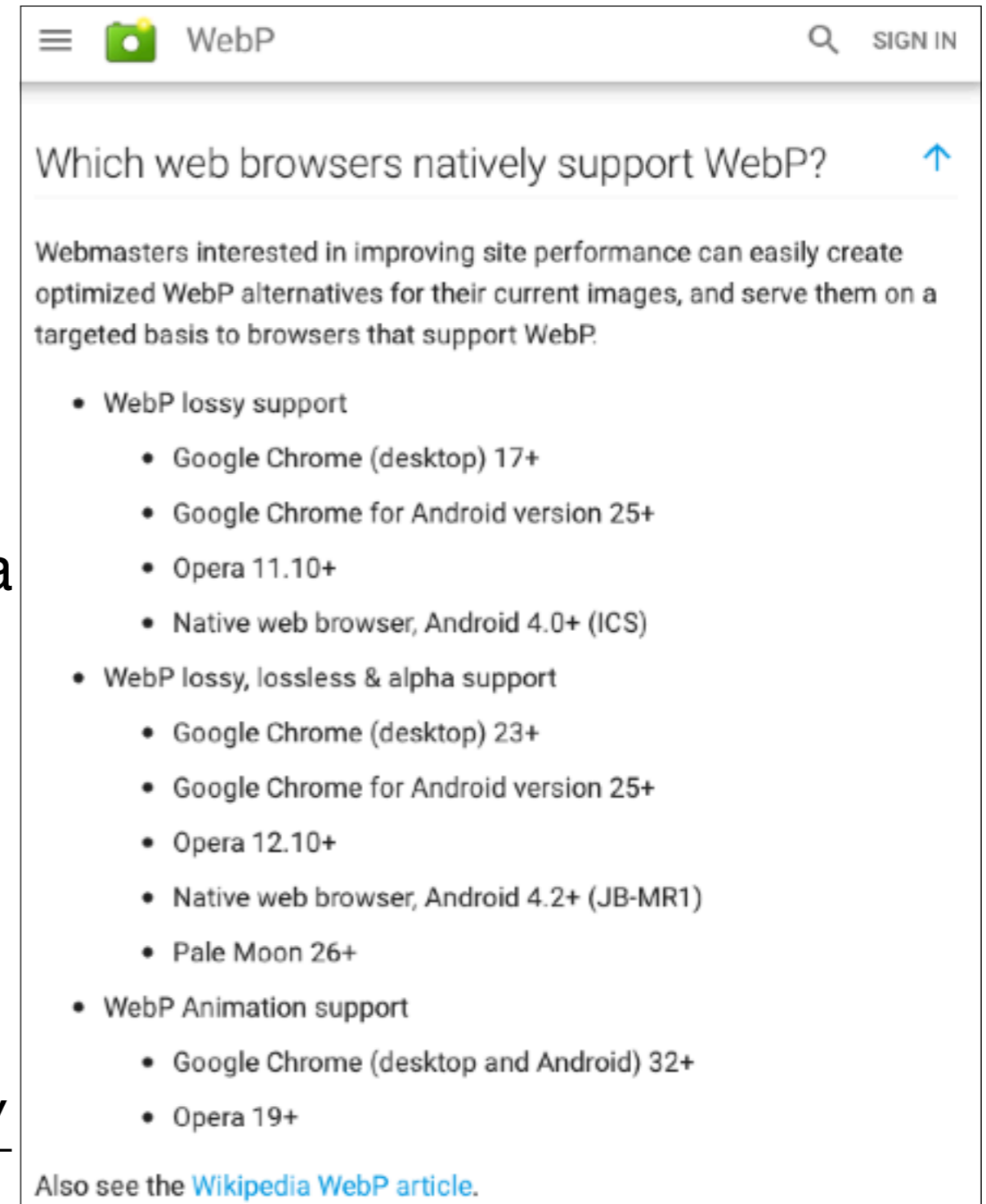


gdalbuilddvrt

g d a l 2 t i l e s . p y

# Not all Web Browsers support WebP

- But since we are Mobile First, this is a *don't care*
- We built the WebP reader into our Mobile SDK for iOS
- See our code and how to include a WebP reader for mobile
- <https://github.com/roblabs/mapbox-gl-native>



The screenshot shows a mobile application interface with a title bar containing a menu icon, a 'WebP' logo, a search icon, and a 'SIGN IN' button. The main content area has a title 'Which web browsers natively support WebP?' with an upward arrow. Below the title is a paragraph: 'Webmasters interested in improving site performance can easily create optimized WebP alternatives for their current images, and serve them on a targeted basis to browsers that support WebP.' This is followed by a bulleted list of browser support categories and versions. At the bottom, there is a link to the Wikipedia WebP article.

- WebP lossy support
  - Google Chrome (desktop) 17+
  - Google Chrome for Android version 25+
  - Opera 11.10+
  - Native web browser, Android 4.0+ (ICS)
- WebP lossy, lossless & alpha support
  - Google Chrome (desktop) 23+
  - Google Chrome for Android version 25+
  - Opera 12.10+
  - Native web browser, Android 4.2+ (JB-MR1)
  - Pale Moon 26+
- WebP Animation support
  - Google Chrome (desktop and Android) 32+
  - Opera 19+

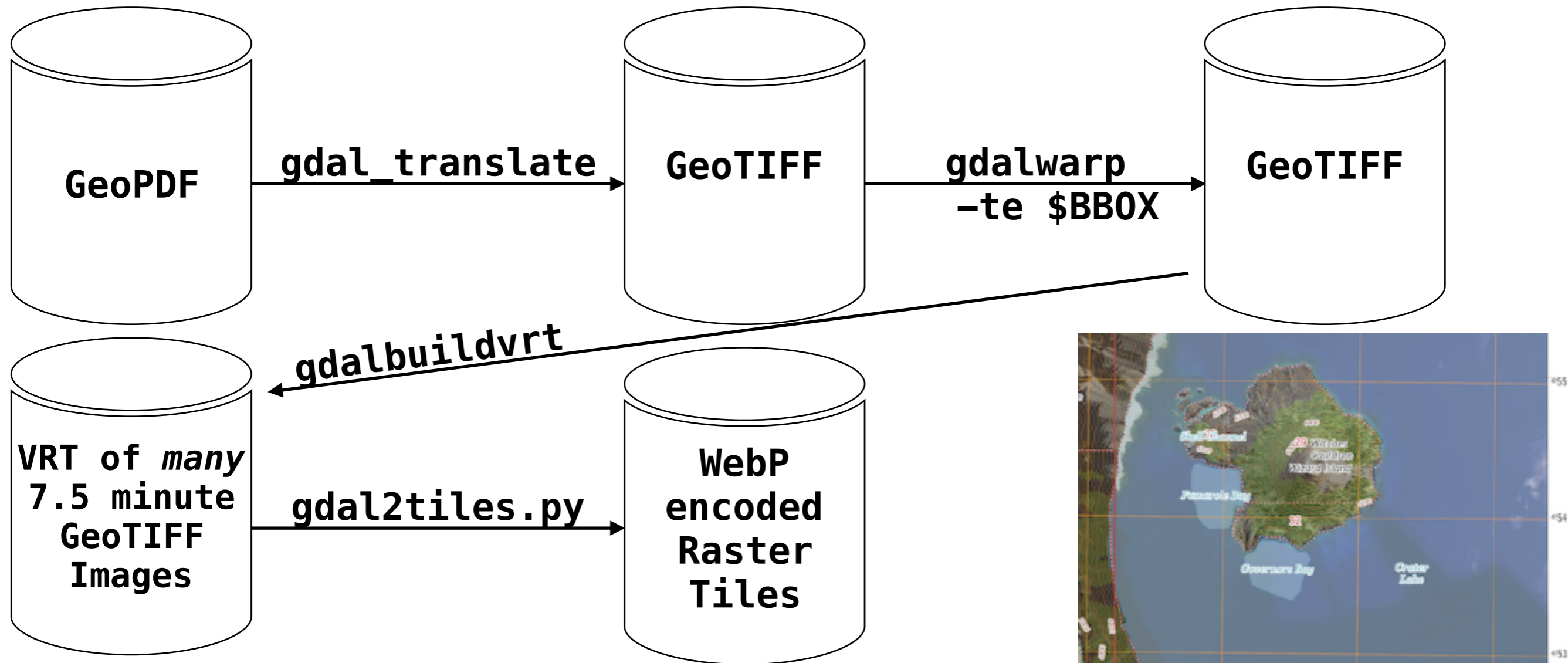
Also see the [Wikipedia WebP article](#).

<https://developers.google.com/speed/webp/faq>



# e π Map Pipeline for Raster

## Hill Shade & Orthoimage Rasters from USGS GeoPDFs



Working examples on how to extract Images from GeoPDF

<http://RobLabs.com/gdal-geopdf>