## iPhone App Sizes

Size (MB)

105.3

116.3

123.5

127.7

133.5

139.7

149.3

150

305.4

**Native** 

**Offline** 

**Offline** 

**Offline** 

Size (MB)

236.7

233.3

iPhone App (Data sampled May 2018)

**Offline Joshua Tree National Park** 

**Offline San Bernardino National Forest** 

Apple's cut off for downloading over LTE

**Offline Yosemite National Park** 

Whats App

Starbucks

**United Airlines** 

Bank of America

Facebook (Wi-Fi only)

WebP Rasters	Offline?	PNG Rasters
14.9		
17.5		
54.9		
57.2		
59.0	Offline	101.6
76.1		
80.6	Offline	169.9
92.7		
93.7		
	Rasters  14.9 17.5 54.9 57.2 59.0 76.1 80.6 92.7	Rasters         14.9         17.5         54.9         57.2         59.0       Offline         76.1       80.6         92.7

# FOSS4G Stack Formaking Offline Maps for Mobile

### Klokantech - tools

- Mobile SDK extension for MBTiles
- tileserver-gl locally serve vector and raster tiles
- MapTiler Soft proof tiles
- OpenMapTiles.org
- OpenMapTiles.com
- GDAL in Docker

**OSGEO** — GDAL

### **Mapbox** — storage, tools and specs

- mapbox.com/studio storing tiles and Styling
- mason build tool chain for Mobile SDK
- tippecanoe GeoJSON to Vector Tiles
- tile-join Joining Vector MBTiles
- Command Line Cartography (merge, join
- GL Style Specifications GL Style, MBTiles, GeoJSON

### google - Encoding

- WebP Raster compression
- ProtoBuf for encoding Mapbox Vector Tiles

# iPhone App Sizes

iPhone App (Data sampled May 2018)	Size (MB) WebP Rasters	Native Offline?	Size (MB) PNG Rasters
Mapbox Studio Preview	14.9		
NGA M.A.G.E.	17.5		
Amazon Prime Video	54.9		
Southwest Airlines	57.2		
Offline Lower Colorado River	59.0	Offline	101.6
Instagram	76.1		
Offline Mount Whitney	80.6	Offline	169.9
Schwab Mobile	92.7		
Delta Airlines	93.7		
Whats App	105.3		
Starbucks	116.3		
Offline Joshua Tree National Park	123.5	Offline	
Offline Yosemite National Park	127.7	Offline	236.7
United Airlines	133.5		
Offline San Bernardino National Forest	139.7	Offline	233.3
Bank of America	149.3		
Apple's cut off for downloading over LTE	150		
Facebook (Wi-Fi only)	305.4		