Tools

(in preparation for your site visit and your sketch_walk photo assignment..)

- 1. Geo-locating photos
- Gathering GPX data from your GPS (on your phone, and bringing it into GIS)
- 3. Importing kml data from google



NOTE:

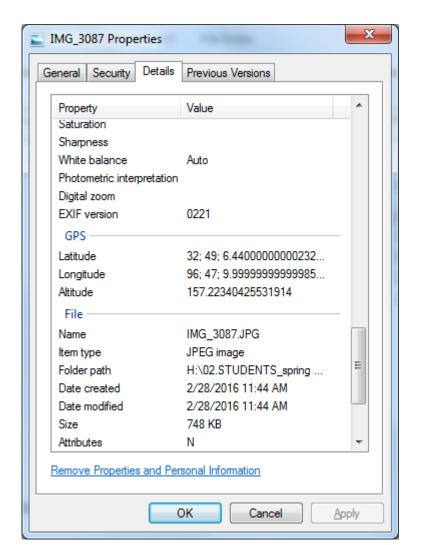
ArcGIS default is for LANDSCAPE or horizontal photos. If you take a vertical photo you CAN work around by re-saving it, but its an extra couple of steps . .

For now— Just take horizontal photos!

Take a series of Geotagged Photographs . . . your smart-phone does this automatically!!

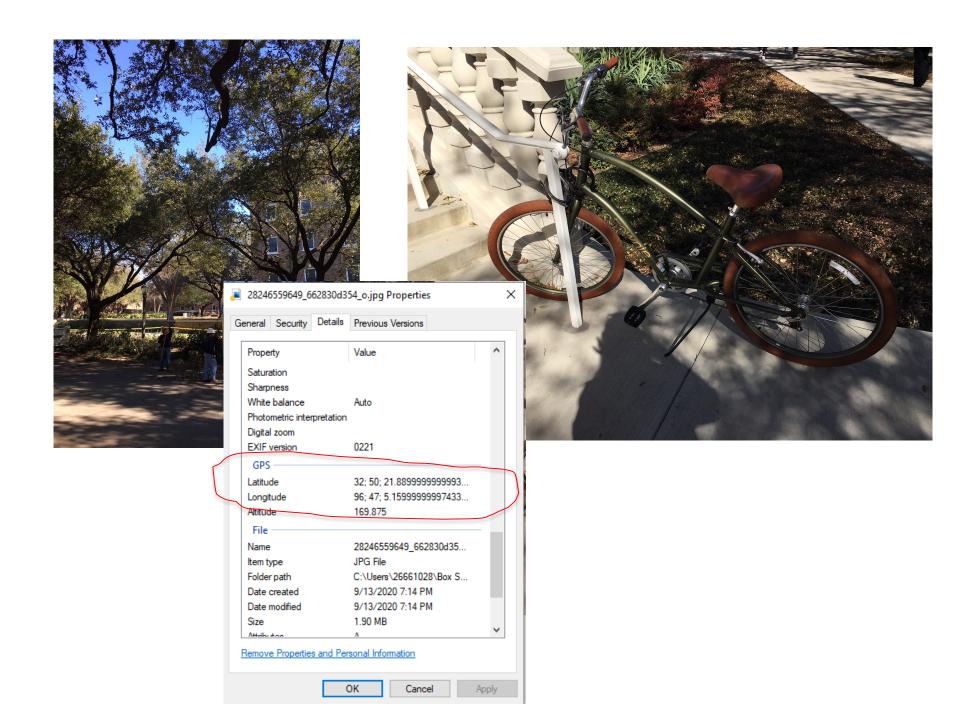
Just check by looking at 'properties' or 'info' on your photos

Most modern cameras have the option to geotag . .but not all have it as default. .



If your phone is not geotagging your photos- you will need to set your settings to allow it to do so.

(sometimes you lose the geographic data when you e-mail it through certain systems . .)





Open a new Map in Pro

- > Add a folder
- > Navvigate to your photos

•

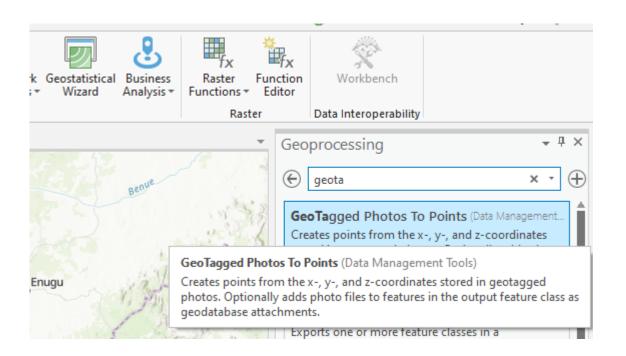
First try dragging a photo onto the map.

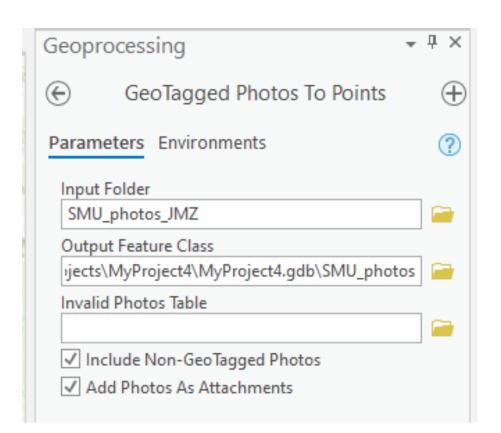
Right-click and 'zoom to layer' Zoom out- it is probably in the ocean Why?

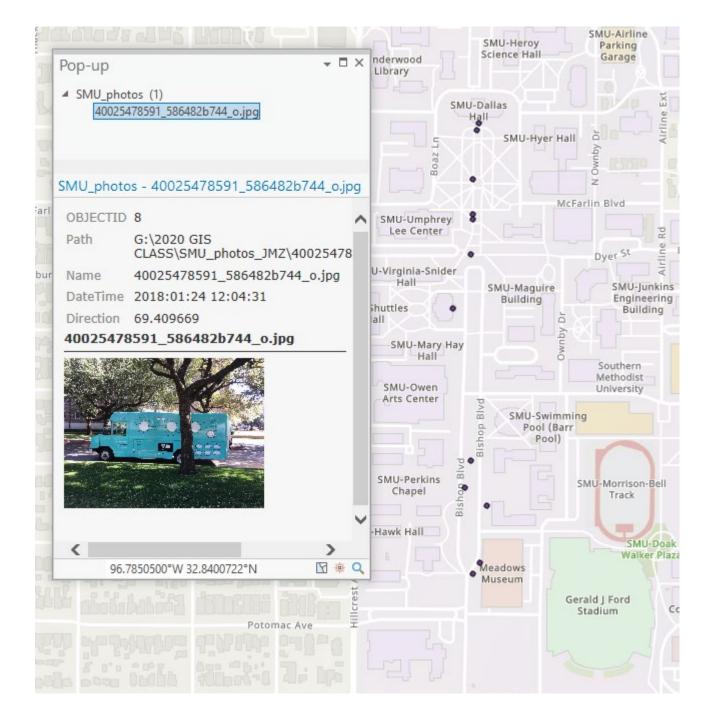
"Null Island"

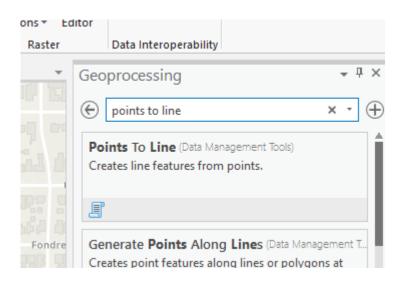
Analysis > tools > GeoTagged Photos to Points (Data Management) import geotagged digital photographs into your map and integrate them directly into your existing geodatabase using the **GeoTagged Photos To Points tool**

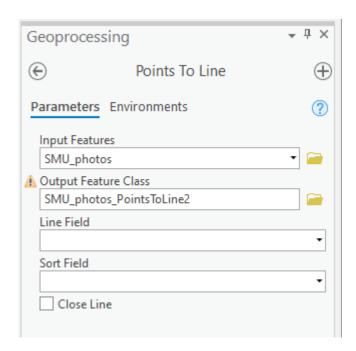
The tool creates a point feature class in the geodatabase and, as an option, attaches the photos to the point feature class







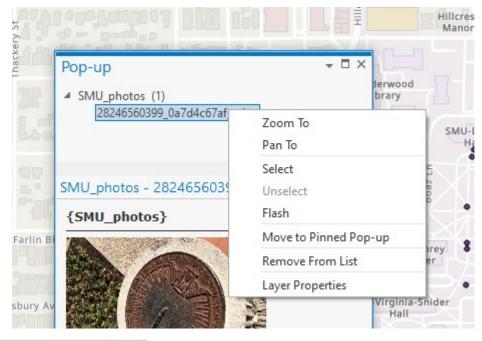


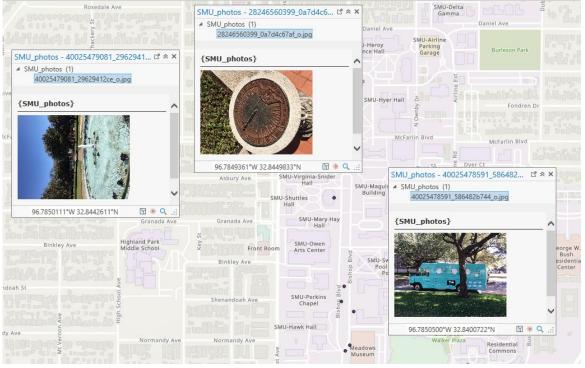




Right-click on the photo and 'move to Pinned pop-up to display more than one.

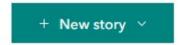
Right-click in Contents and 'configure pop-up to remove all the extra text.





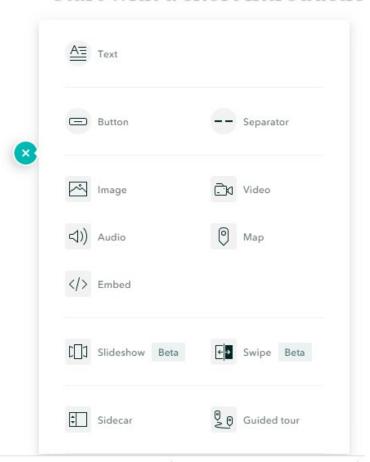
Upload a screenshot of a series of images in a test-run photo walk.
And a screenshot of your path.

STEP 2 Bring your photos into a storymap



Title your st

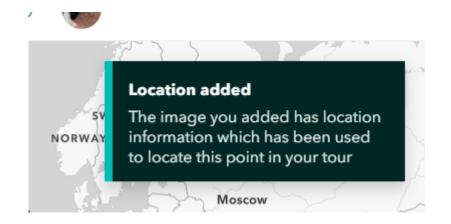
Start with a short introductio



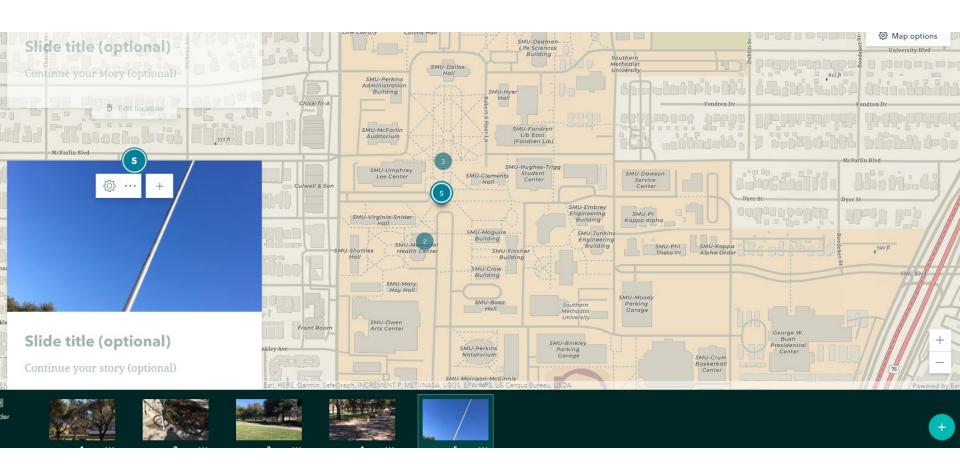
- 1. New story
- Add a title and a first line of text

rch

- 3. Add....Guided tour
- 4. Map focused



Map options to change the zoom level and background



Plus to add the images

Play with the format And upload the link (make it public when you publish it).

STEP 3

Gathering GPX data, showing the journey collected from a GPS (on your phone, and then bringing it into GIS)

(this is an actual path, rather than just a connecting of photographs taken with your phone)

See if you can do this as a separate step-WITHOUT doing a collection photos on the same app. (you can combine the two, but every app has a different set of settings for this)

In this exercise – see if you can collect ONLY the path.





View in iTunes

Free

Category: Navigation Updated: Feb 24, 2016 Version: 3.5.2

Size: 7.5 MB Languages: English, Simplified Chinese, Traditional Chinese Seller: Jason Chiu

© 2012-16 GPS Hiker from Jason Chiu

Rated 4+

Compatibility: Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.

Customer Ratings

We have not received enough ratings to display an average for the current version of this application.

All Versions: ★★★ 37 Ratings

Description

GPS Hiker is a great and free application for outdoor activities. It supports GPS track logging, GPX file import/export and offline maps (Open Street Map, Open Cycle Map, Hike Bike and Custom Map Image) download and viewing. Camera, twitter and email features are integrated as well.

GPS Hiker Support

...More

What's New in Version 3.5.2

- 1. Support routes in the GPX file.
- 2. Fix the camera privilege issue.

iPhone Screenshots

FIND AN APP

Something like thisthere are
HUNDREDS
It needs to be able
to
export GPX or KML

Minimalist GPS Tracker

View More by This Developer

By Alexey Kuznetsov

Open iTunes to buy and download apps.

export GPX or KML

Note- this one only gives a 5 min path for the free version. Stop and start!



Description
Tracker records,

Tracker records, keeps the history of, and exports GPS tracks in GPX format. It cares about the data privacy and about the battery life.

Minimalist GPS Tracker Support)

...More

View in iTunes

This app is designed for both iPhone and iPad

Free

Category: Navigation Updated: Sep 17, 2015

Version: 1.7 Size: 5.2 MB

Languages: English, Russian Seller: Alexey Kuznetsov © 2013-2015 Alexey

Kuznetsov Rated 4+

Compatibility: Requires iOS 8.2 or later. Compatible with iPhone, iPad, and iPod touch.

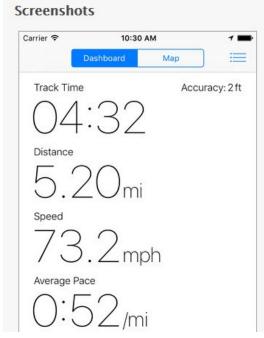
Customer Ratings

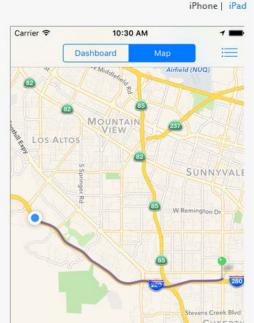
We have not received enough ratings to display an average for the current version of this application.

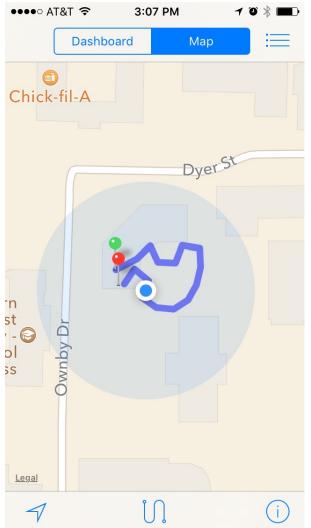
All Versions: ★★★ 18 Ratings

What's New in Version 1.7

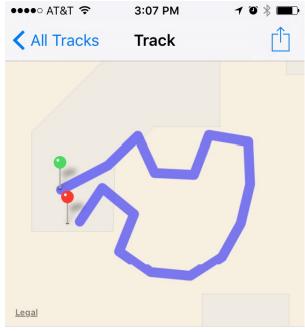
iOS 9 and iPad multitasking support.











Date Today, 10:07 AM

Time 01:53

Distance 0.12 mi

Avg. Speed 3.9 mph

To:

Cc/Bcc, From: zarazaga@icloud.com

Subject: Track on 2016-02-29 at 10-07 CST.gpx

usually, if it has an export option, the app offers you the option to e-mail yourself the file or track



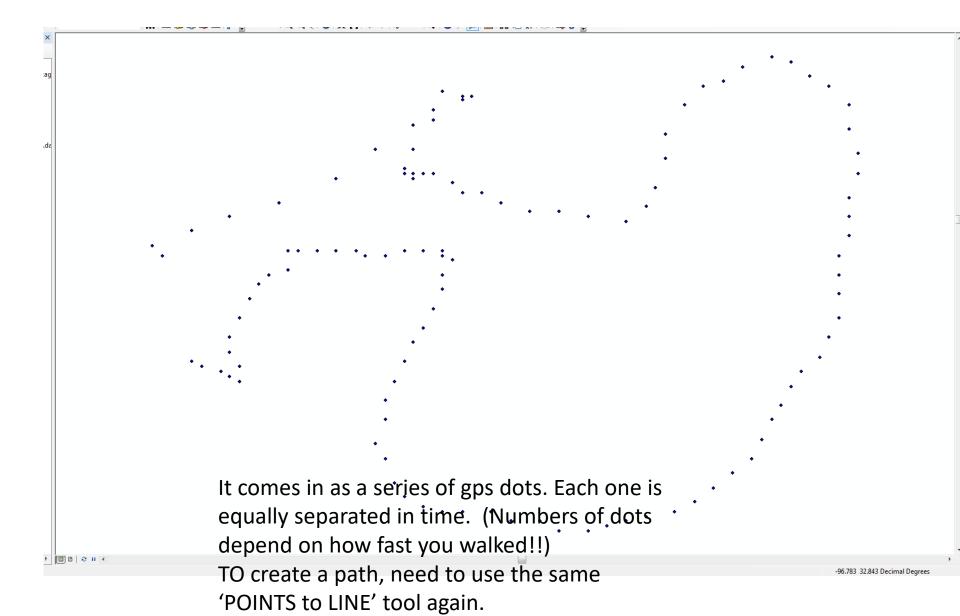
Sent from my iPhone

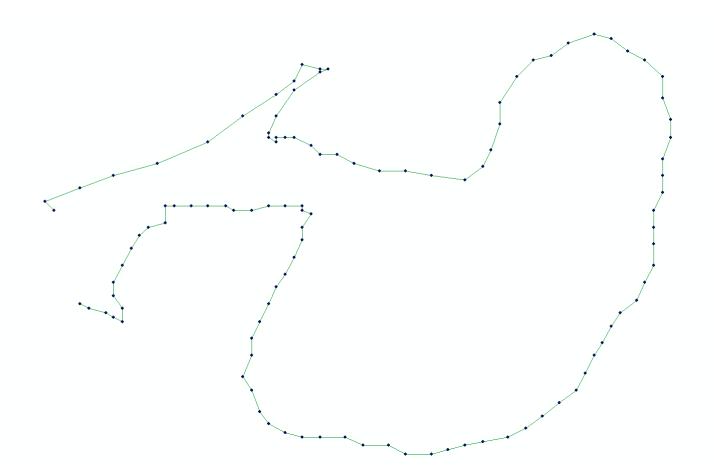
A .gpx file or a .kml file can both be imported into ArcGIS / ArcGIS Pro easily

you want the tool: from GPX or GPX to Feature or from KML to Layer



you will have to navigate to where you saved the file

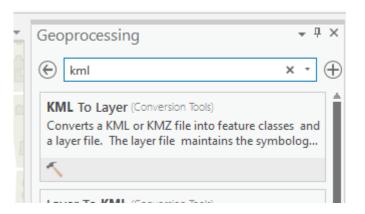




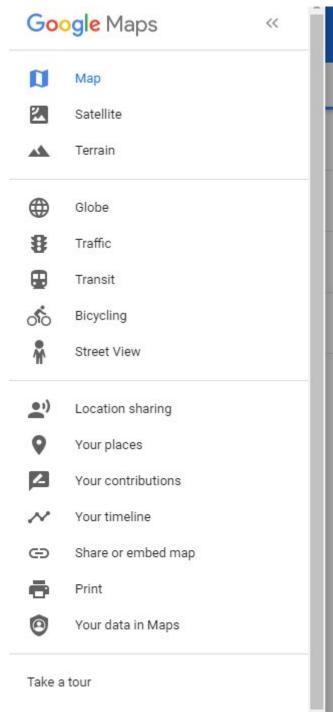
If your data exported from your phone is a KML file- you can import it using that tool . (this is less common, since its not a native GPS system)

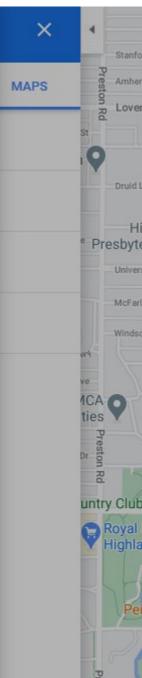
KML is the language that google maps uses to store geo data!

SO, while we are learning this, we also will learn another useful tip



-- if you want to get some info from google maps- and you want to bring that route data directly into ArcGIS, you can import it as KML!





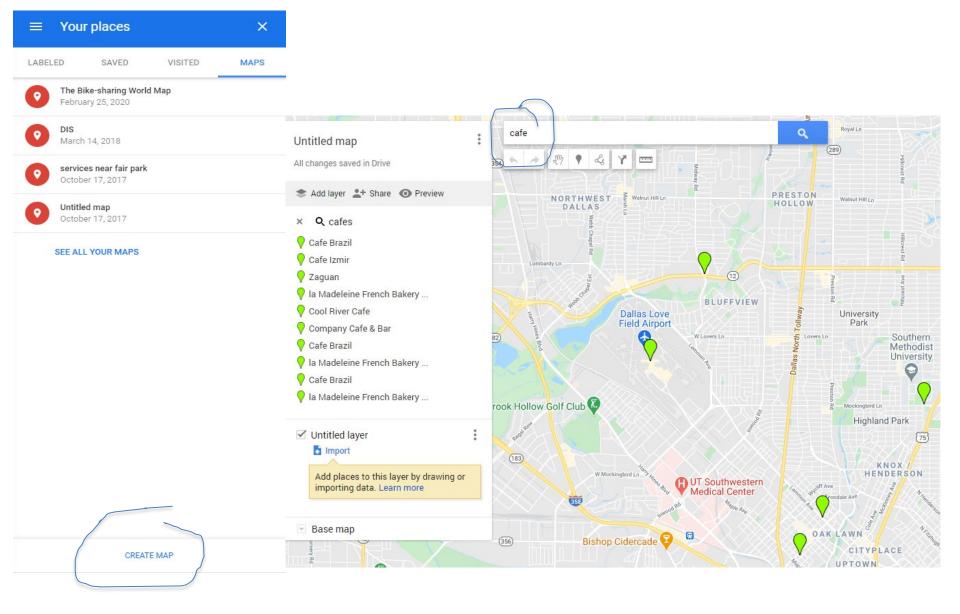
4. How to import a file from google maps. KML to layer (and eventually to .shp)

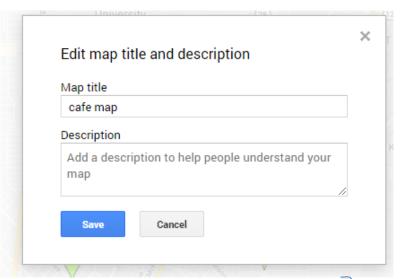
Sign in (you need a google account) note- google changes fast – this may be out of date- but it will be similar.

. .

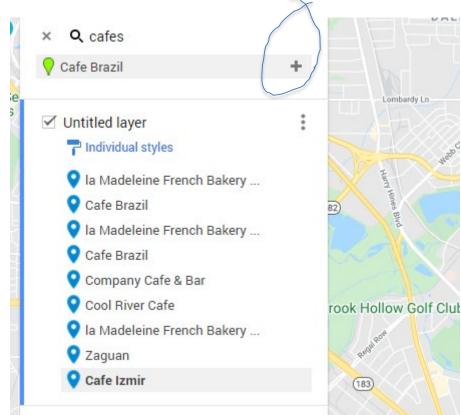
click on search box (to reveal the list of searches below) select: 'My maps'

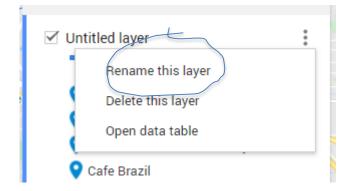
(note, Google maps changes very frequently, so these instructions are out of date every time I re-do them. But it should be similar)

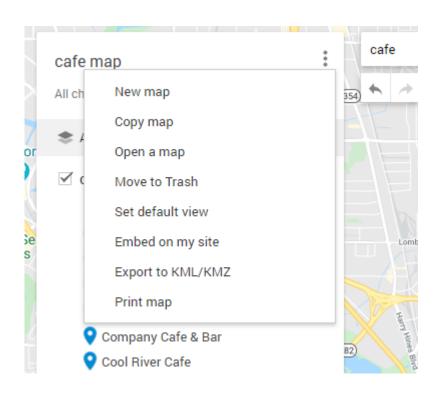




Add them to your layer







Three dots: export to KML

Then import to KML

