

CLASSROOM MAPPING EXERCISE

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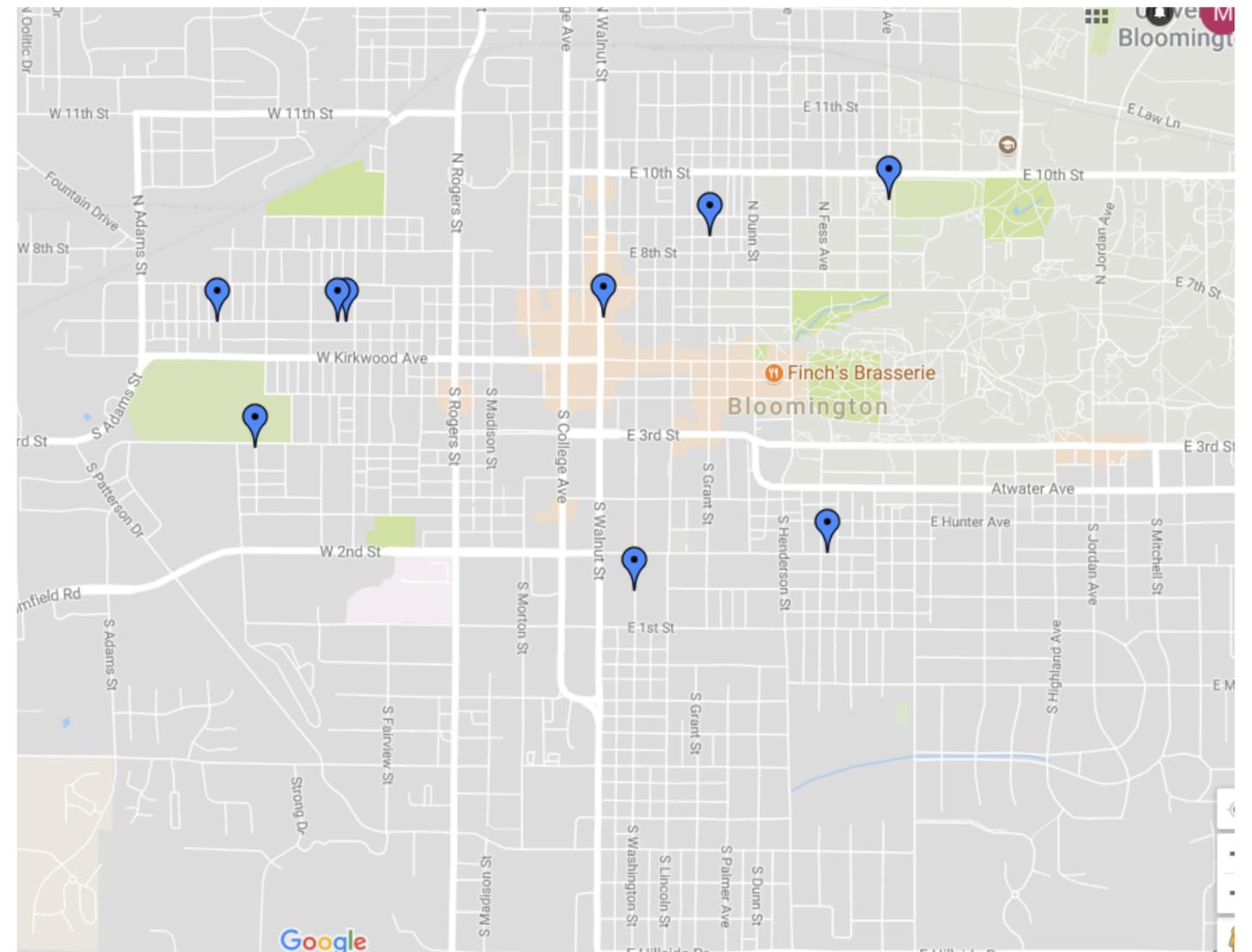


GOALS

- **Create a Google Map with point data generated by students/workshop participants.**
- **Gain understanding of spatial data concepts:**
 - **XY Coordinates and generating point data**
 - **Spatial analysis of gaps and clusters**
 - **Contextualization and interpretation of spatial data**

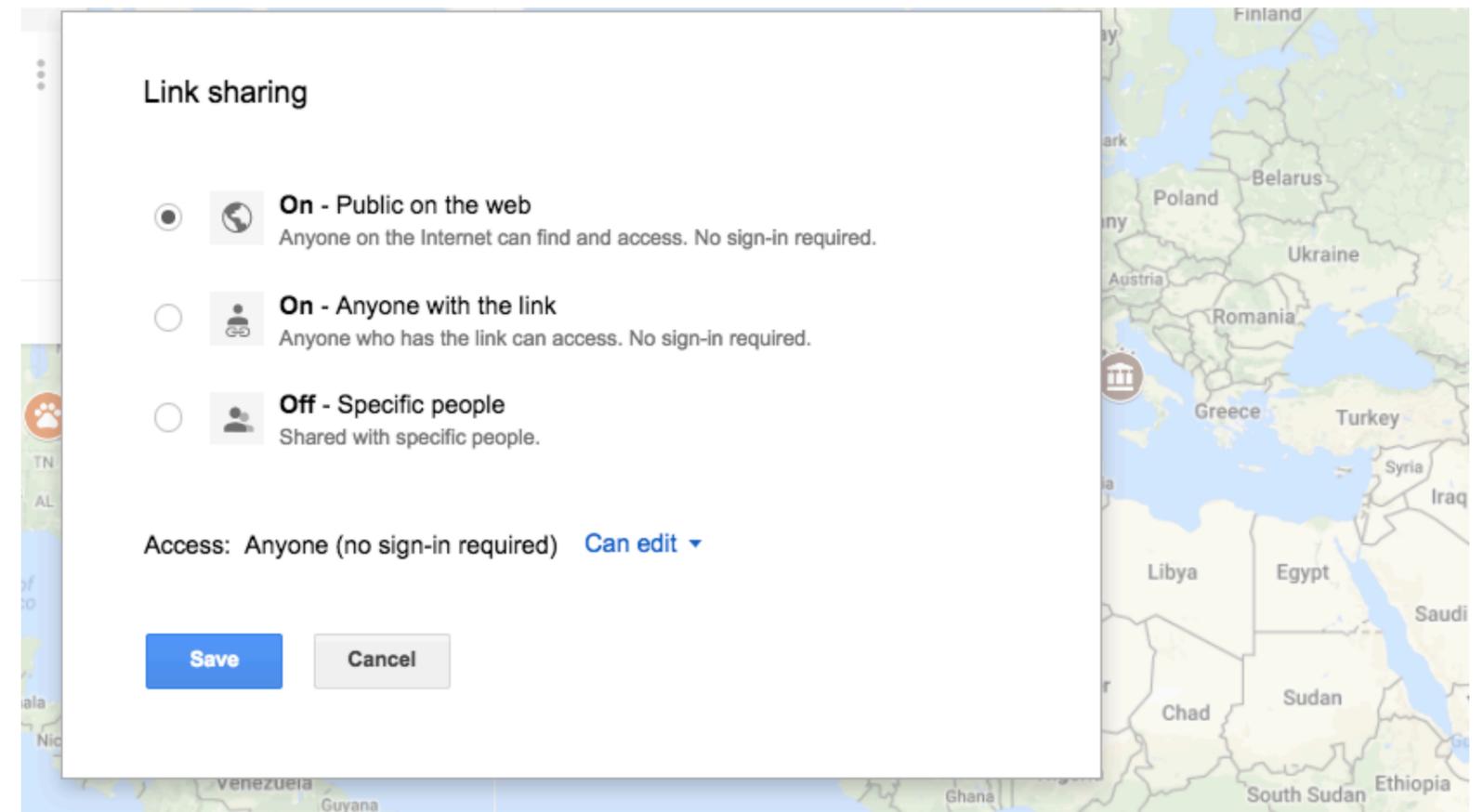
CLASSROOM MAPPING EXERCISE

- **We'll use Google Maps**
- **Low barrier for students**
- **Need Google account and access to a computer with internet access.**



EXERCISE SET-UP

- **Login to Google**
- **Go to maps.google.com**
- **Click Menu to the left of search bar**
- **Choose Your Places → Maps → Create Map**
- **Click Share & make sure **Anyone** can **Edit**.**
- **Add link to your IU Box account & make custom link**



INSTRUCTIONS FOR YOUR CLASS

Workshop Steps

- **Go to:**

<https://iu.box.com/v/classroommapexercise>

Redirects to a Google Map

- **Students need to make sure they are signed in to Google**
- **Students will click “Edit” at top of map**

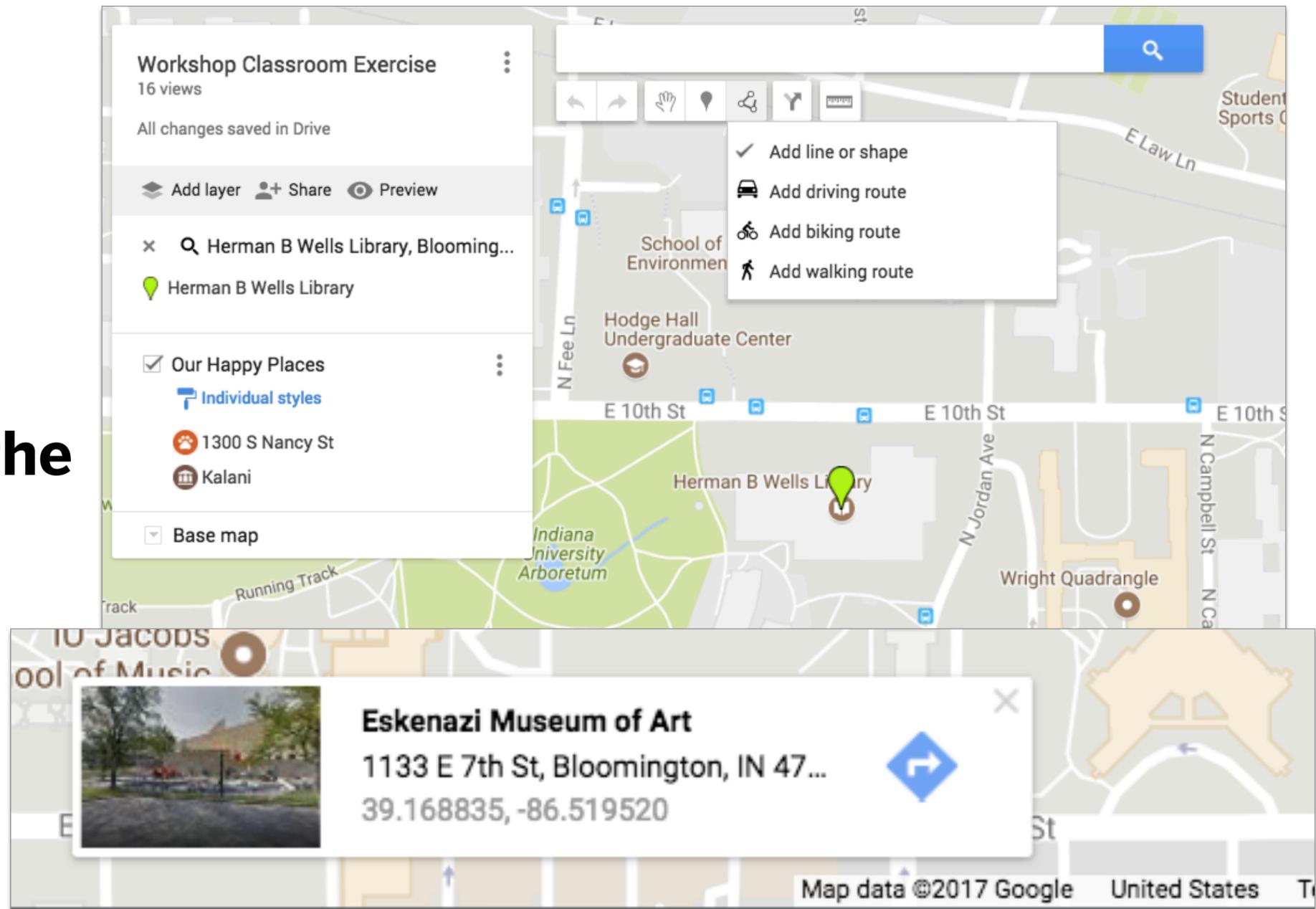
INSTRUCTIONS FOR YOUR CLASS

Tell students:

- In your phone or computer, go to Photos → Albums → Places
- Find the photo that makes you **happiest**.
- Save to your favorites so it's easy to find again.

FINDING THE COORDINATES

- Using Google Maps:
- Open a new map on maps.google.com
- Click on the map, where your photo was taken, and look at the information on the pop-up.
- The coordinates in **decimal degrees** are in gray.



FINDING THE COORDINATES

- Using Your Phone's Metadata:

If you want **precise coordinates**, go to:

<http://exif.regex.info>

- Works best from your phone.
- Upload your photo and look for the Location data.
- We're looking for the coordinates in decimal degrees. (Circled in red)

Verizon 4:12 PM 36%

exif.regex.info

Basic Image Information

Target file: IMG_3940.JPG

Camera:	Apple iPhone 6s
Lens:	iPhone 6s front camera 2.65mm f/2.2 Shot at 2.7 mm
Exposure:	Auto exposure, Program AE, 1/60 sec, f/2.2, ISO 32
Flash:	Auto, Did not fire
Date:	February 18, 2017 9:22:48AM (timezone not specified) (6 months, 11 days, 6 hours, 49 minutes, 55 seconds ago, assuming image timezone of 5 hours behind GMT)
Location:	Latitude/longitude: <u>39° 5' 32.9" North, 86° 25' 27.9" West</u> (39.092469, -86.424422)

Location guessed from coordinates:
Pate Hollow Trail, Bloomington, IN 47401, USA

Map via embedded coordinates at: [Google](#), [Yahoo](#), [WikiMapia](#), [OpenStreetMap](#), [Bing](#) (also see the Google Maps pane below)

Altitude: 207 meters (680 feet)
Camera Pointing: East-northeast
Timezone guess from earthtools.org: [5 hours behind GMT](#)

ADDING THE POINT TO GOOGLE MAPS

- **Type the Decimal Degree Coordinates into the Google Map search bar.**
 - **Option 2:** type in the location of your photo as if you were looking for directions, e.g. “IU Herman B Wells Library.”
- **Make decisions about the color and iconography of your point.**
- **Add your photo to the map point, if you’d like.**
 - **Easiest way for Macs:** drag the photo from your Photos application to your desktop and import it from there.



MAPPING EXERCISE

- **What spatial information have we discovered by creating this visualization?**
 - **Unexpected or unexplained gaps or clusters?**
- **Consider the parameters of the assignment.**
 - **Photos from Bloomington? IU Campus? Anywhere?**
 - **How would we map a timeline, narrative or experience?**