



Mapping Gatsby from Space

Colby Fayock

Sr UX & Front End Engineer

Element **84**

@colbyfayock



Search Google Maps

Caphe Banh Mi Cameron Street, Alexandria, VA

Chart House Cameron Street, Alexandria, VA

Torpedo Factory Art Center North Union Street, Alexandria...

Home

Work 18 min via I-495 E/I-95 N

Updated just now

Moderate traffic in this area Slower than usual

Old Town 84°

Restaurants Hotels Bars Coffee More

Lee-Fendall House Museum

Robinson Terminal Warehouse

Founders Park

Element 84 5.0 ★★★★ 1 review

Element 84 May 29 6:30pm

220 N Union St Garage

Caphe Banh Mi

Wells Fargo Bank

Princess St

Queen St

Oronoco St

N Pitt St

N Royal St

N Lee St

N Fairfax St

Euille St

Bricketts Alley

Queen St

Princess St

Quay St

N Union St

Caphe Banh Mi

Church

Cameron St

Miss Dress for Less

Walgreens

Nando's Peri Peri

H&M

Starbucks

CVS

The Alexandrian, Autograph Collection

Fontaine Caffe & Creperie

Columbia Firehouse

Stabler-Leadbeater Apothecary Museum

Athenaeum

Carlyle House Historic Park

Republic Parking (Market Square Parking Garage)

Fish Market

Ben & Jerry's

Virtue Feed & Grain

Waterfront

Old Town Alexandria Harbor

Chart House

Torpedo Factory Art Center

Explorers

Explore

Satellite

Potomac Riverboat Company

Carlyle House Historic Park

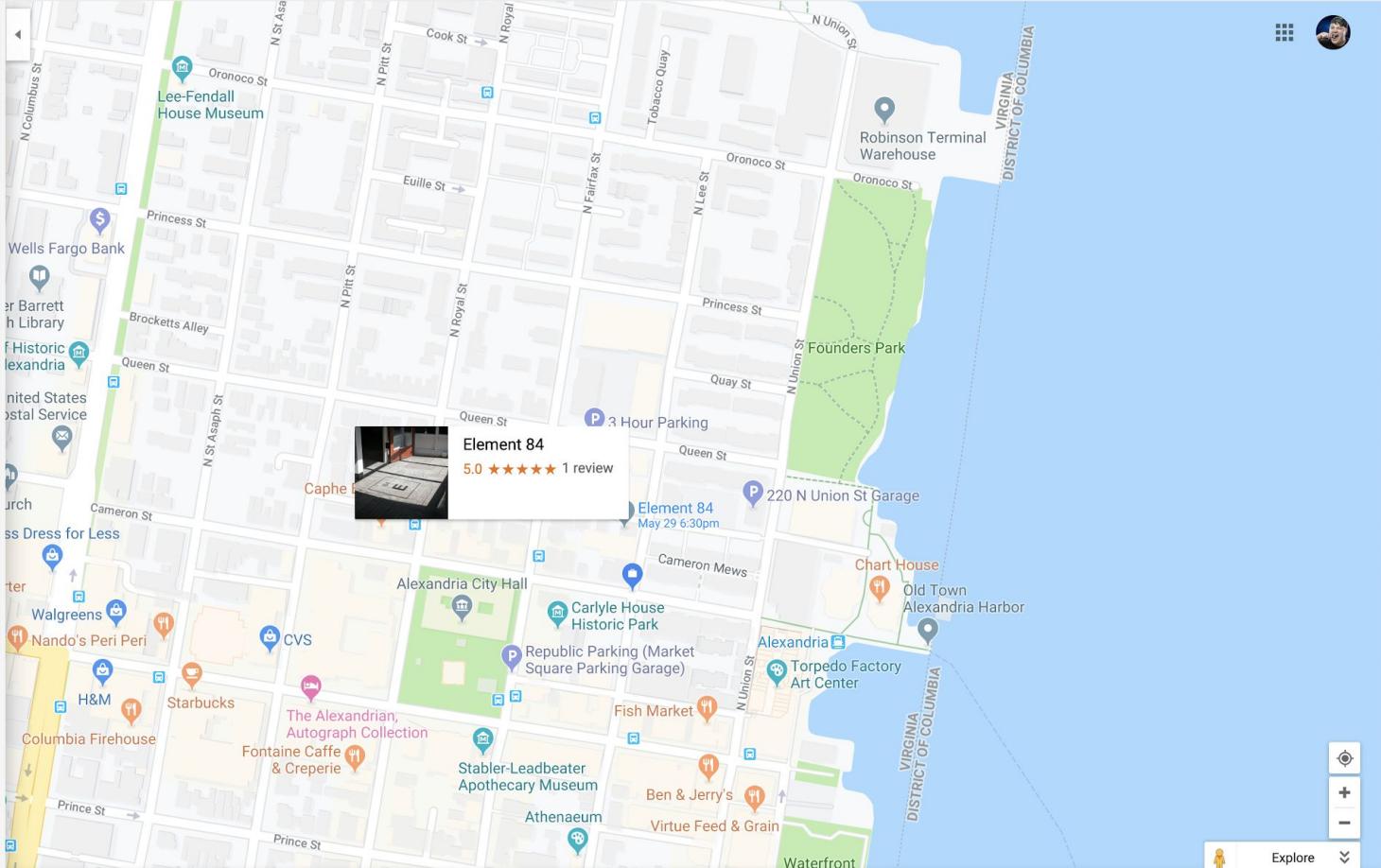
Torpedo Factory Art Center

198

Market Square

Potomac Riverboat Company

Map data ©2019 Google United States Terms Send feedback 200 ft



Franconia Springfield Metro, 6880 Front
201 N Lee St, Alexandria, VA 22314

Arrive by OPTIONS
9:00 AM Wed, May 29

Send directions to your phone

8:05 AM (Wednesday)–8:56 AM 51 min
8:07 AM from Franconia-SPRGFLD STA. & Bus Bay D
\$1.75 8 min

DETAILS

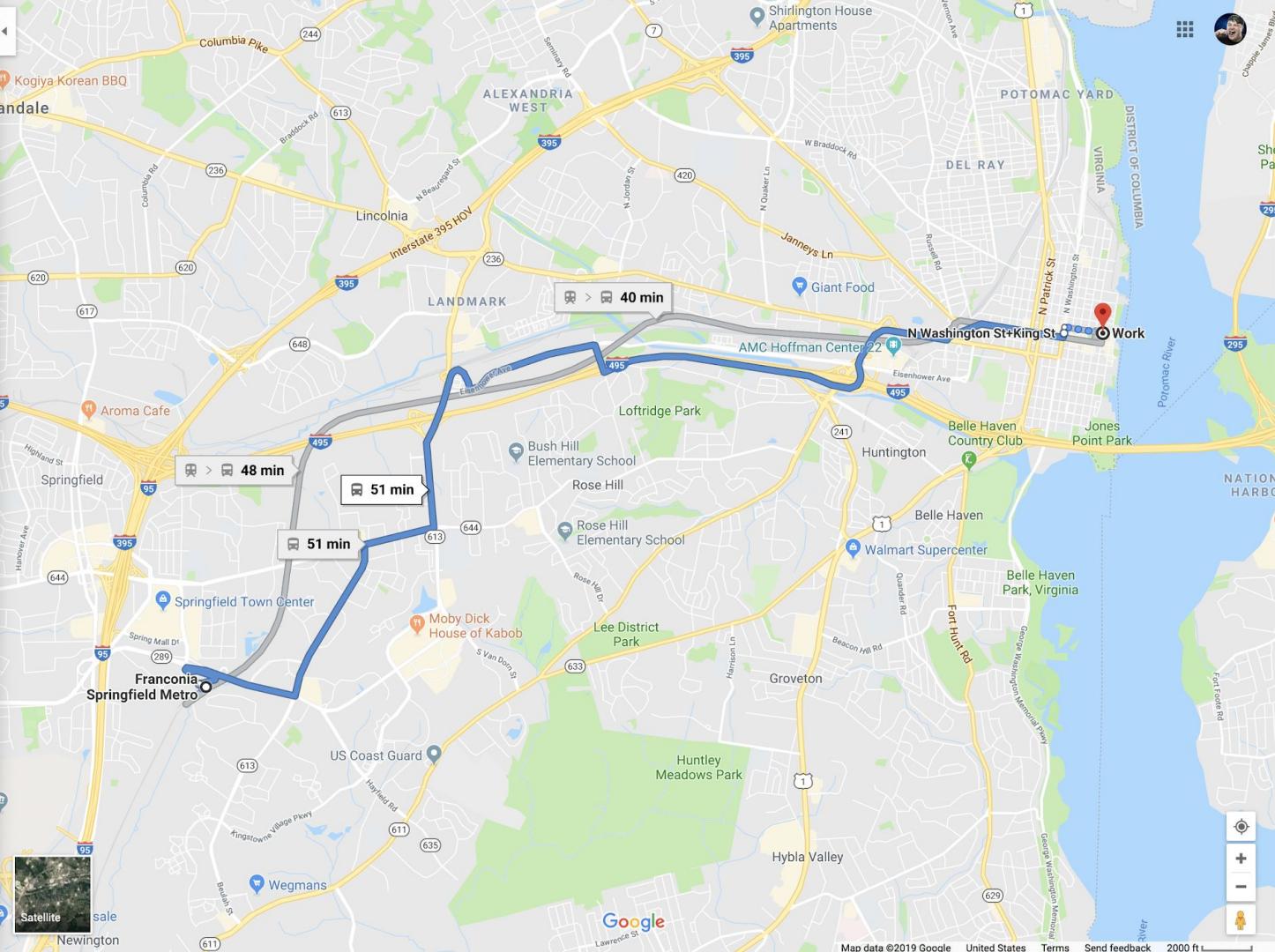
8:08 AM (Wednesday)–8:48 AM 40 min
8:07 AM from Franconia-SPRGFLD STA. & Bus Bay D
\$1.75 8 min

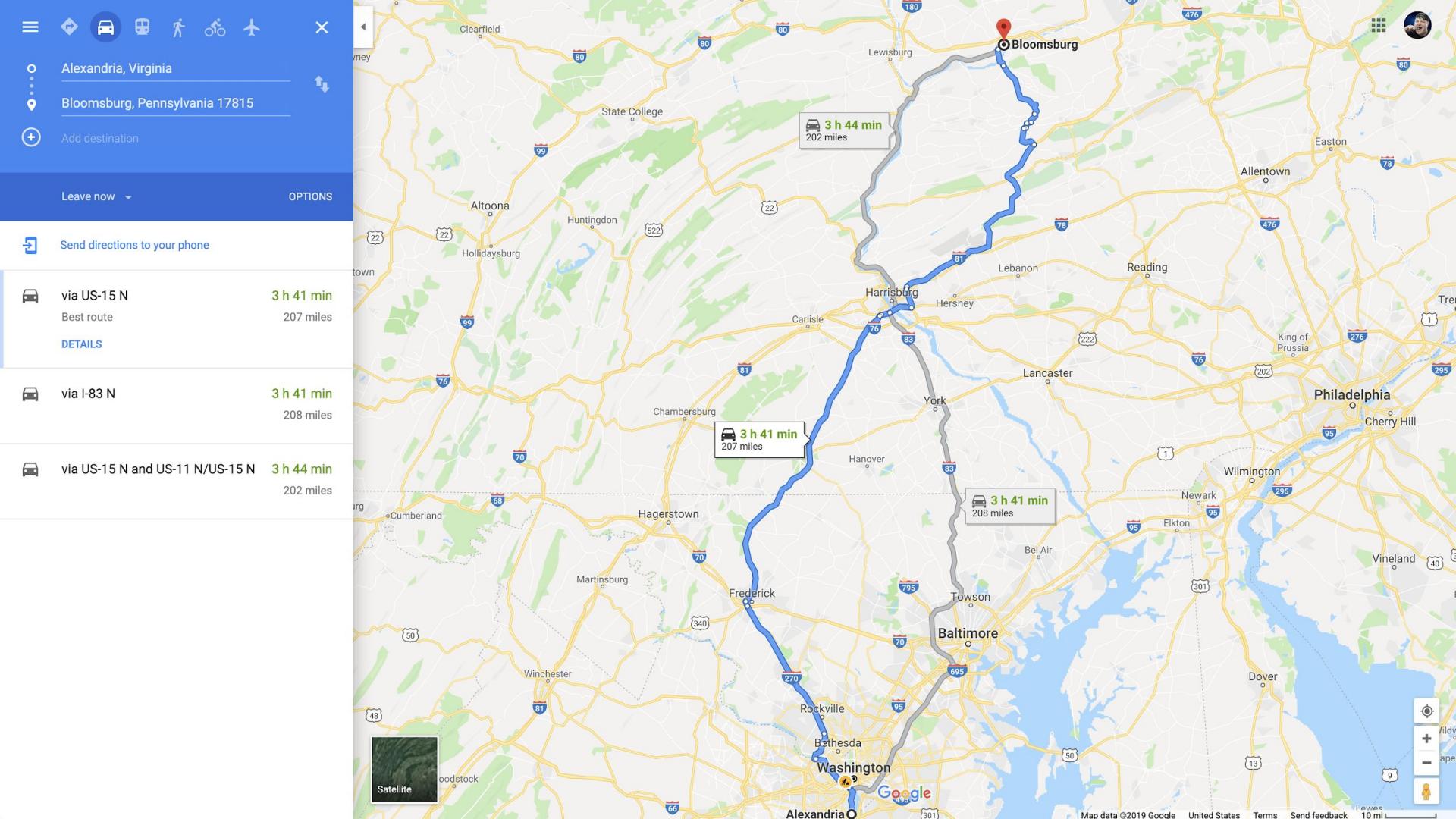
8:08 AM (Wednesday)–8:48 AM 40 min
8:07 AM from Franconia-SPRGFLD STA. & Bus Bay D
\$1.75 8 min

7:55 AM (Wednesday)–8:46 AM 51 min
8:07 AM from Franconia-SPRGFLD STA. & Bus Bay D
\$1.75 8 min

8:08 AM (Wednesday)–8:56 AM 48 min
8:07 AM from Franconia-SPRGFLD STA. & Bus Bay D
\$1.75 8 min

SCHEDULE EXPLORER





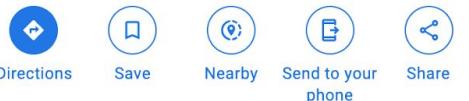


The Great Pyramid of Giza

الهرم الأكبر في الجيزة

4.6 ★★★★★ (12,248)

Pyramid



Largest of Egyptian pyramids in a complex also including temples & other Ancient artifacts.

Al Haram, Nazlet El-Semman, Al Haram, Giza Governorate, Egypt

الهرم، نزلة السمان، الهرم، الجيزة

X4HM+MM Giza, Al Omranayah, Egypt

Closed. Opens at 8:00 AM

Add a label

Suggest an edit



The Great Pyramid of Giza



Christian Paulsson

Street View - Mar 2019



Google

Image capture: Mar 2019 Images may be subject to copyright.

Picasa

United States

Terms

Report a problem





Valley of Geysers

Долина гейзеров

4.7 (66)

Nature preserve

Directions Save Nearby Send to your phone Share

Камчатский край, Kamchatka Krai, Russia, 684305

Камчатский край, 684305

9V62C4PP+CG

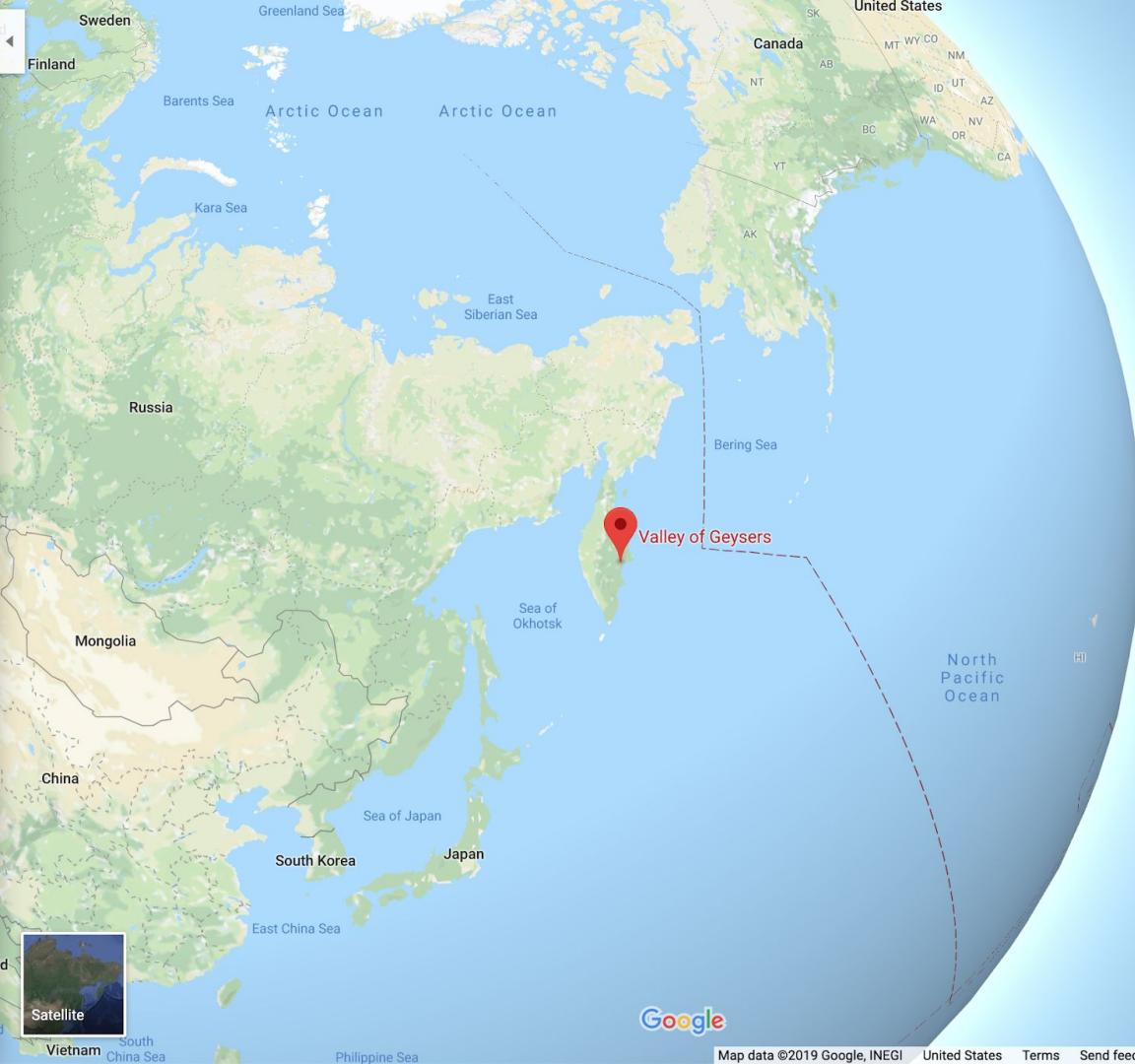
+7 415 317-39-05

Open now: 8AM–9PM

Claim this business

Add a label

Suggest an edit



Google

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Valley of Geysers



Сергей Краснощёков

⋮

Street View - Jul 2011

×



Google



+

-



Image capture: Jul 2011

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United States

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Where is this? Go



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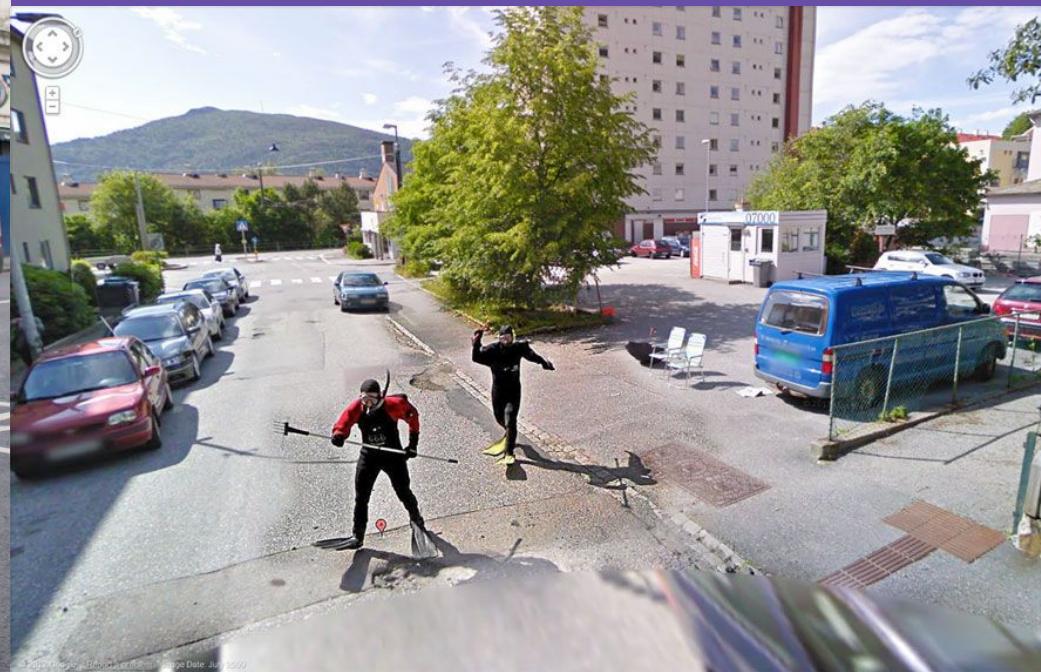
[Learn More](#)[Start Mapping](#)

Where does this data
come from?

Scientists Analysts



Technology



You!

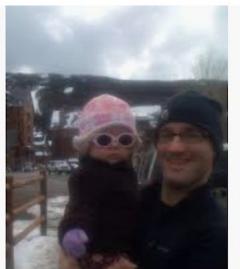




Brian W. - OSM Colorado (D...
.com



OSM Open Source Meetup - H...
facebook.com



Brian G. - OSM Colorado (D...
meetup.com



Hamza T. - OSM Colorado (D...
meetup.com



Brian D. - OSM Southern Cal...
meetup.com



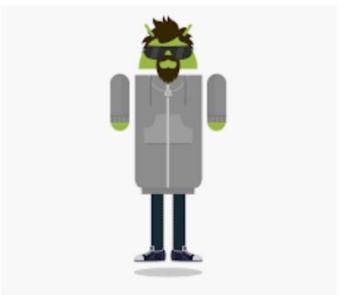
Bishrant - OSM Wyoming (L...
meetup.com



OSM Denver second meetup ...
blog.openstreetmap.org



Ben T. - OSM Colorado (Denver, CO) | ...
meetup.com



OSM MEETUP: SEATTLE - O...
onesecretmission.com



DAYA SHANKAR MAURYA ft. #Prakhar ...
youtube.com



Muthu S. - OSM Colorado (D...
meetup.com



Sarah R. - OSM Colorado (D...
meetup.com



W. - OSM Colorado (D...
.com



Josh P. - OSM Colorado (D...
meetup.com



doreen - OSM Southern Califo...
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Maghri N. - OpenStreetMap In...
meetup.com



National Geographic at Azavea Office ...
azavea.com



OpenStreetMap Community MeetUp ...
openstreetmap.id

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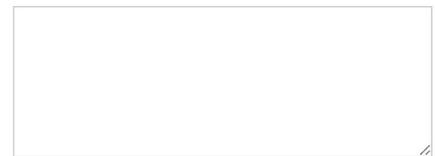
Where is this?

Go

**Unresolved note #1023857****Description**

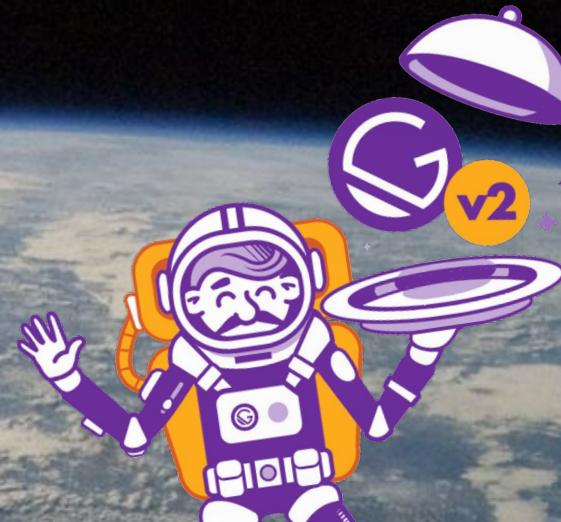
Nying Nyang Refugee Camp

Created by anonymous almost 2 years ago

This note includes comments from anonymous users
which should be independently verified.**Comment**

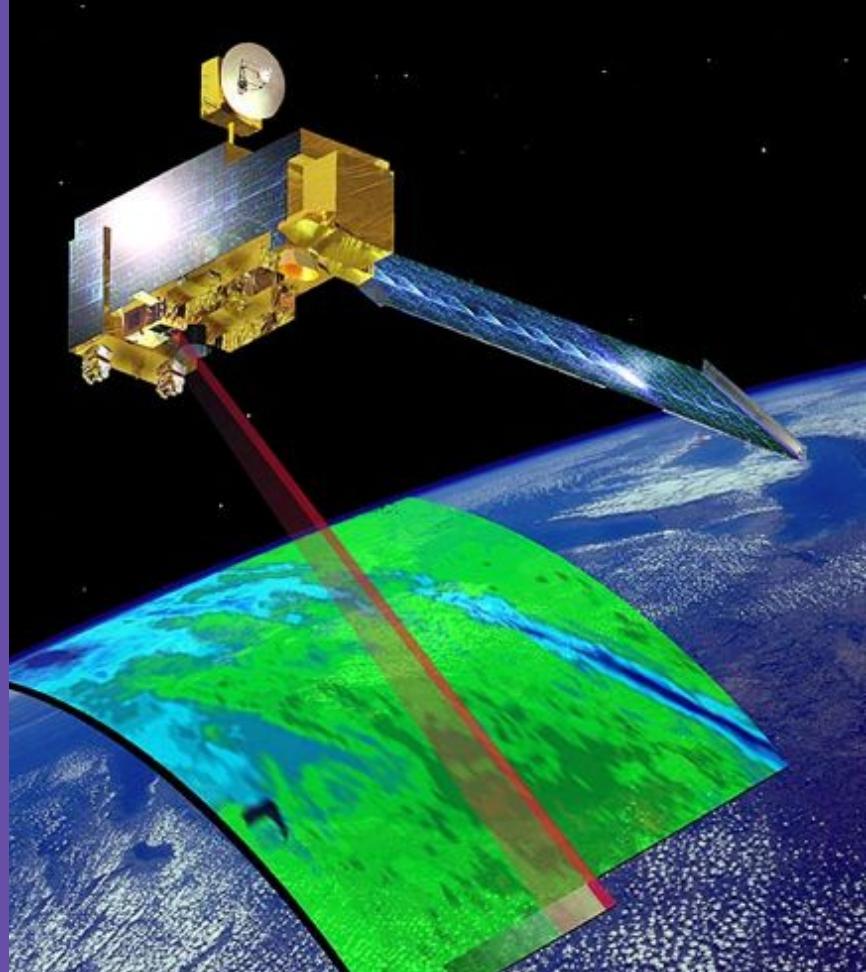
Border of South Sudan / Ethiopia

What About Space?



Satellites

High resolution imagery
of Earth



MODIS Terra, nasa.gov





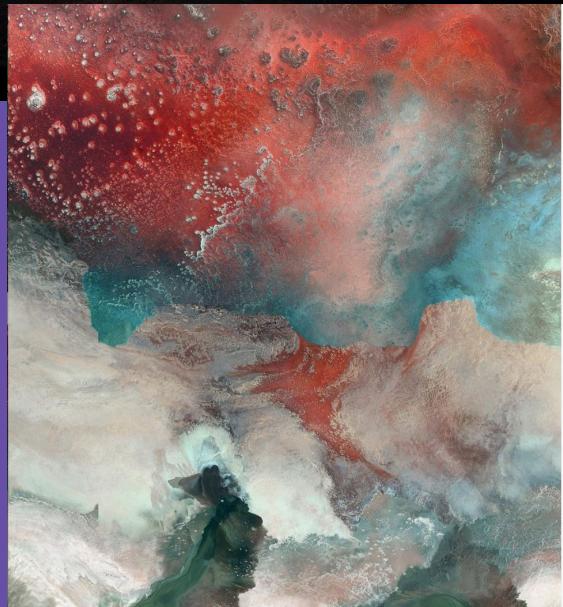
iss • Following

iss Get ready for another station pass tonight if you live in the eastern U.S. Conditions look good for skywatching on a clear night from Florida to Maine. Find station sighting opportunities for your hometown by visiting the link in the profile. #nasa #unitedstates #earth #international #space

1W

102,040 likes

MAY 18



dailyoverview • Following

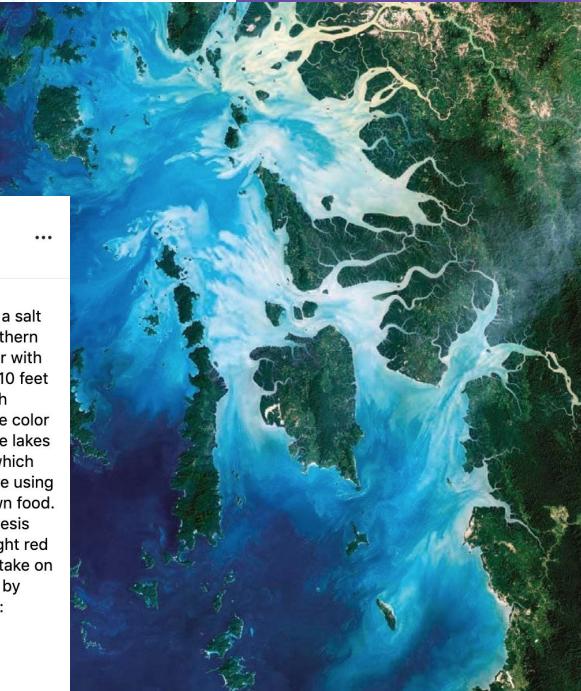
Lake Natron

dailyoverview Lake Natron is a salt lake in the Arusha Region of northern Tanzania, not far from the border with Kenya. It is shallow — less than 10 feet (3 m) deep — and varies in width depending on its water level. The color of Lake Natron is typical of saline lakes with high evaporation rates, in which salt-loving microorganisms thrive using photosynthesis to make their own food. A by-product of this photosynthesis causes deeper water to turn bright red and shallow parts of the lake to take on a rusty orange color. /// Created by @dailyoverview, source imagery: @maxartechnologies

6d

dailyoverview • #dailyoverview

15,225 likes



nasaearth • Follow

Mergui Archipelago

people, known as the Moken, still live in the archipelago home and most closely follow a hunter-gatherer lifestyle. The small population of the archipelago has helped preserve its high diversity of plants and animals, making it a compelling travel spot for ecotourists both above and below the water.

In this view of Auckland Bay and the Mergui Archipelago, white swirling patterns in the shore waters are sediments that are carried out by rivers and deposited on the seafloor.

This natural-color image was acquired by Landsat 5 on December 14, 2012.

This image is one of the featured satellite images in our new book, "Earth." Check out more beautiful images in the book!

13,726 likes

FEBRUARY 21

Add a comment...

**More than driving directions,
saving the world...**

Climate Change

Disaster Response

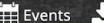
Farming

Public Health

Tons of other Scientific Research



Layers



OVERLAYS

- Place Labels
© OpenStreetMap contributors, Natural Earth
- Coastlines / Borders / Roads
© OpenStreetMap contributors, Natural Earth
- Coastlines
© OpenStreetMap contributors

BASE LAYERS

- Corrected Reflectance (True Color)
Suomi NPP / VIIRS
- Corrected Reflectance (True Color)
Aqua / MODIS
- Corrected Reflectance (True Color)
Terra / MODIS

[+ Add Layers](#)[Start Comparison](#)

Tropical Cyclone Idai

March 2019

Tropical Cyclone Idai
(March 2019)

On 14 March 2019, Tropical Cyclone Idai hit the shores of Mozambique. This storm brought rain, strong winds, flooding and storm surge damage in Mozambique, and caused landslides in Zimbabwe.

Step 1/9

200 km

100 mi

-13.7882°, 31.2990° EPSG:4326

2019 MAR 14

DAYS

FEB 2019

MAR 2019

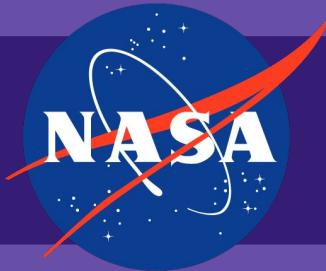
APR 2019

MAY 2019





Who's mapping?



Study of Earth Imagery & Much More

<https://worldview.earthdata.nasa.gov/>
<https://firms.modaps.eosdis.nasa.gov/map/>



World Health Organization

Air Pollution, Biological Threats, etc

<http://maps.who.int/mapgallery/>
<https://maps.who.int/airpollution/>



Earthquakes, Topography

<https://earthquake.usgs.gov/earthquakes/map/>
<https://www.usgs.gov/products/maps/topo-maps>



Weather, Disasters

<https://maps.redcross.org>



Humanitarian
OpenStreetMap
Team

Humanitarian Aid (Disasters, Refugees, etc)

<https://www.hotosm.org/>
<https://www.hotosm.org/updates/interactive-maps/>



United States
Department of
Agriculture

Food Access

<https://www.ers.usda.gov/data-products/food-access-research-atlas/go-to-the-atlas.aspx>

So, Gatsby?



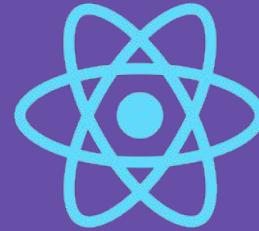
Tooling...

...is hard

...takes time

...is always changing

...is generally a pain



Focus on the important bits!

Build a map, not a front end

Gatsby Starter Leaflet

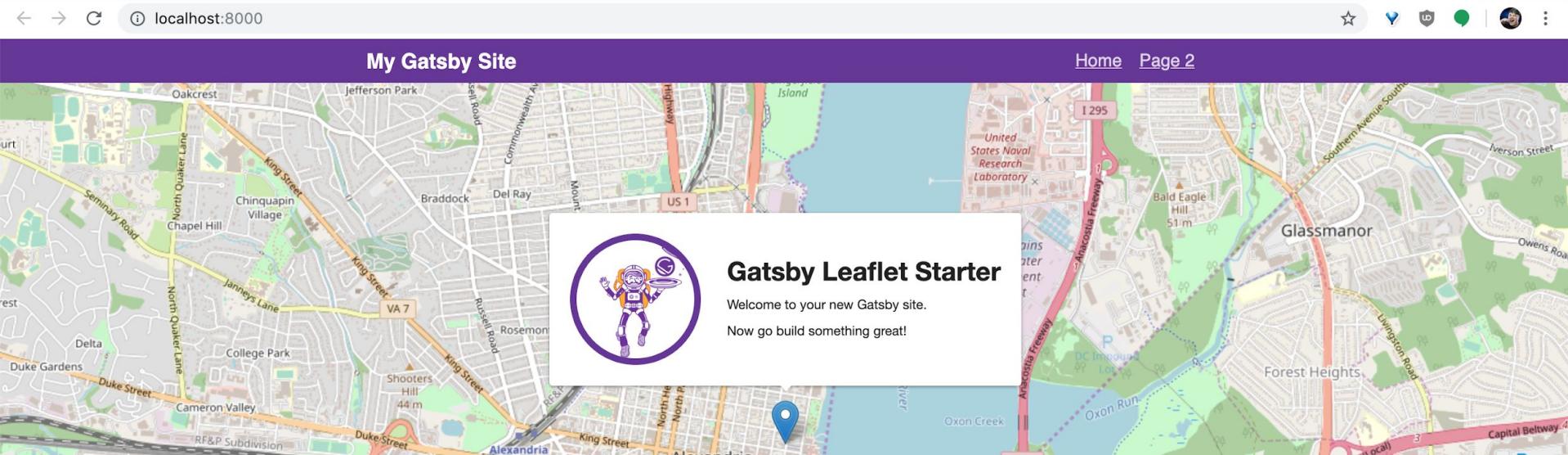
```
→ Code gatsby new my-map-project git@github.com:colbyfayock/gatsby-starter-leaflet.git
info Creating new site from git: git://github.com/colbyfayock/gatsby-starter-leaflet.git
```

```
→ my-map-project yarn develop
```

You can now view **gatsby-starter-leaflet** in the browser.

<http://localhost:8000/>

< npm  
< gatsby 



montes claros mg



Montes Claros, MG - Brazil



Search



Himalayas

Questions?

How do you use maps?

Gatsby Leaflet Starter

<https://github.com/colbyfayock/gatsby-starter-leaflet>

Leaflet

<https://leafletjs.com>

React Leaflet

<https://react-leaflet.js.org>

OpenStreetMap (OSM)

<https://www.openstreetmap.org/>

OSM Stats

<https://osmstats.neis-one.org>