

# Practical Approaches to Gazetteer Alignment

Ryan Baumann  
Duke Collaboratory for Classics Computing

## Search results — 107 items matching your search terms

Ids from this batch: toggle visibility

[Castellum Medianum Matidium](#)  
Alexandrianum Tilivense (or Vicus  
Augusti) Castellum Medianum Matidium  
Alexandrianum Tilivense?)  
by E.W.B. Fortress — last modified Feb  
14, 2012 01:05 PM — Relevance: 100%

[Col. Nova Traiana Alexandrina](#) (or  
Bosra/Col. Nova Traiana Alexandrina)  
by J.P. Brown — last modified Jan 11,  
2014 06:46 AM — Relevance: 97%

[Alexandriana \(or Arbelas/Arba-Ita\)](#)  
A place name from the TAVO Index (Vol. 1,  
p. 72) by B. Sievert-Mayer — last modified  
Jan 11, 2014 05:57 AM — Relevance: 87%

[Vicus Augusti/Castellum Medianum  
Matidium Alexandrianum Tilivense?](#)  
An ancient place, cited: (Atlas 31 C4  
Vicus Augusti/Castellum Medianum  
Matidium Alexandrianum Tilivense?) by  
E.W.B. Fortress — last modified Oct 20,  
2012 12:02 PM — filed under:  
ancient+1, date+feature+settlement,  
date:major+0 — Relevance: 77%

[Colonia Naa Traiana Alex. B.](#) (or  
Bosra/Col. Nova Traiana Alexandrina)  
A place name from the TAVO Index (Vol. 1,  
p. 352) by B. Sievert-Mayer — last  
modified Jan 11, 2014 06:48 AM —  
Relevance: 77%

[Alexandria \(of Alexandria\)](#)  
by S.E. Kroll — last modified Feb 14, 2012  
06:05 PM — Relevance: 76%

[Alexandria \(of Alexandria\)](#)  
by M.U. Erdosy — last modified Feb 14,  
2012 06:05 PM — Relevance: 76%

Next 20 items - [1] 2 3 4 5 6



## Research

Research Home ▶ Tools ▶ Getty Thesaurus of Geographic Names ▶ Search Results  
Getty Thesaurus of Geographic Names® Online  
Search Results

[New Search](#) [Previous Page](#)

[Help](#)

Find Name: **alexandria**

Vernacular Display | English Display

Place Type:

Nation:

80 results

[View Selected Records](#) [Select All Records](#) [Clear All](#)

Click the icon to view the hierarchy.  
Check boxes to view multiple records at once.

1.  **Alessandria** ..... (inhabited place)  
(World, Europe, Italy, Piedmont, Alessandria province) [7005125]  
**Alexandria a Palea**  
**Alexandria Staliellorum**  
**Alexandria Statiellorum**
2.  **Alexandra Channel** ..... (channel)  
(World, Asia, India, Andaman and Nicobar, Andaman Islands) [7544786]  
**Alexandria Channel**
3.  **Alexándreia** ..... (inhabited place)  
(World, Europe, Greece, Macedonia, Imathía regional division) [7233761]  
**Alexándria**
4.  **Alexandria** ..... (inhabited place)  
(World, Africa, Egypt, Al-Iskandariyah governorate) [7001188]  
Vernacular: Al Iskandariyah  
**Alexándria**  
**Alexandria Ad Aegyptum**

# What?

GeoNames Home | Postal Codes | Download / Webservice | About

search: alexandria login

Map center : N 39° 56' 27" E 26° 35' 35"

Map Satellite

Google Earth Tasmania Mapquest

Map data ©2016 Google Imagery ©2016 TerraMetrics Terms of Use Report a map error

searching for "alexandria"

GeoNames Wikipedia

features

- city, village, ...
- mountain, hill, rock, ...
- stream, lake, ...
- country, state, region, ...
- parks, area, ...
- road, railroad
- spot, building, farm
- forest, heath, ...
- undersea

only 50 objects displayed, zoom in or deselect some features

Name	country	feature	km to center
1  Alexandria	Egypt	seat of a first-order administrative division	1016.46 km
2  Alexandria	Romania	seat of a first-order administrative division	461.37 km
3  Alessandria	Italy	seat of a second-order administrative division	1571.84 km
4  Iskenderun	Turkey	seat of a second-order administrative division	915.1 km
5  Abū Qir	Egypt	populated place	1009.21 km
6  Al 'Amiriyah	Egypt	populated place	1034.35 km
7  Borg El Arab	Egypt	populated place	1047.12 km
8  Bitash	Egypt	populated place	1023 km

# Why?

- Transitive property: find out information about a resource from or through another context
- What does X have to say about this place?
- Pull information you want *back* into your project
- Discover weird things at the boundaries of your and other people's data
- Adding actual *links* between Linked Open Data



# How?

- Use heuristics based on resource properties in common between the datasets you're trying to align
- Commonly: name, location
- My approach: find all name matches, then use location to filter
- Would also be possible to find all location matches, then use name to filter!

# What's a name match?

- Pleiades: Alexandreia
- GeoNames: Alexandreia
- That was easy

# What's a name match?

- Pleiades: Alexandreia
- GeoNames: Αλεξάνδρεια
- Not as easy

# “Normalization”

- Perform a normalization step on name strings before matching
- *Could* write some manual rule or transliteration process that transforms “Αλεξάνδρεια” to “Alexandria”
- But then what about الإسكندرية or אלכסנדריה or אלכסנדרה?
- Seems like a hard problem other smart people would have already dealt with

# International Components for Unicode

- We're already using Unicode, might as well benefit from it
- ICU developed for all sorts of hard internationalization problems
- Also established standards for transliteration between scripts

# ICU Transliteration

Any-Latin; Lower; NFD; [:Nonspacing Mark:] Remove; [:Punctuation:] Remove; NFC

- Any-Latin: convert any character to Latin script
- Lower: convert to lowercase
- NFD: convert to Normalized Form D (“decompose” accents)
- [:Nonspacing Mark:] Remove; [:Punctuation:] Remove: remove accents and punctuation
- NFC: convert to Normalized Form C

# ICU Transliteration

- transliterator = Transliterator.getInstance("Any-Latin; Lower; NFD; [:Nonspacing Mark:] Remove; [:Punctuation:] Remove; NFC")
- transliterator.transliterate("Alexandreia") = "alexandreia"
- transliterator.transliterate("Αλεξάνδρεια") = "alexandreia"

# What's a name match?

- String equality: easy
- Substring match: easy, but sloppy
- Edit/Levenshtein distance: minimum number of edits to transform one string into another
- Cosine similarity: measure distance of strings in vector space - robust to rearrangement of words
- Phonetic algorithms: e.g. Metaphone

# What's a location match?

- What's a “location”?
  - Point, collection of points, bounding box, line, arbitrary n-dimensional polygon...
- What's a “match” between any two kinds of these?
  - Seems like a hard problem other smart people would have already dealt with

# Spatial Relationships/ DE-9IM

- Equals - all points equal
- Disjoint - no points in common
- Within, Contains - one geometry is completely within another
- Overlaps - some points in common, but not all
- Intersects - at least one point in common
- Touches - at least one boundary point in common, but no interior points in common
- Crosses - the geometries actually overlap edges, e.g. a line crossing into a polygon
- DE-9IM matrix - represents all 512 possible combinations of relations

# What's a location match? Pleiades/GeoNames

- Pleiades: point(s) or bounding boxes
- GeoNames: points
- Point/point relationships or bounding box/point relationships

# What's a location match?

## Pleiades/GeoNames

- Pleiades is a point: match if GeoNames point is within a distance threshold
- Pleiades is a bounding box: match if GeoNames point is inside that box
- Pleiades is a collection of points: match if GeoNames point is within distance threshold of centroid

# Wait, what's a “place” match?

- Related to LOD vocabulary alignment problem
- Any meaningful alignment between an ancient place and a modern administrative boundary?

# (Nea) Paphos

Creators: D. Rupp

Contributors: DARMC, R. Talbert, Sean Gillies, Johan Åhlfeldt, Jeffrey Becker, Tom Elliott, Anne User

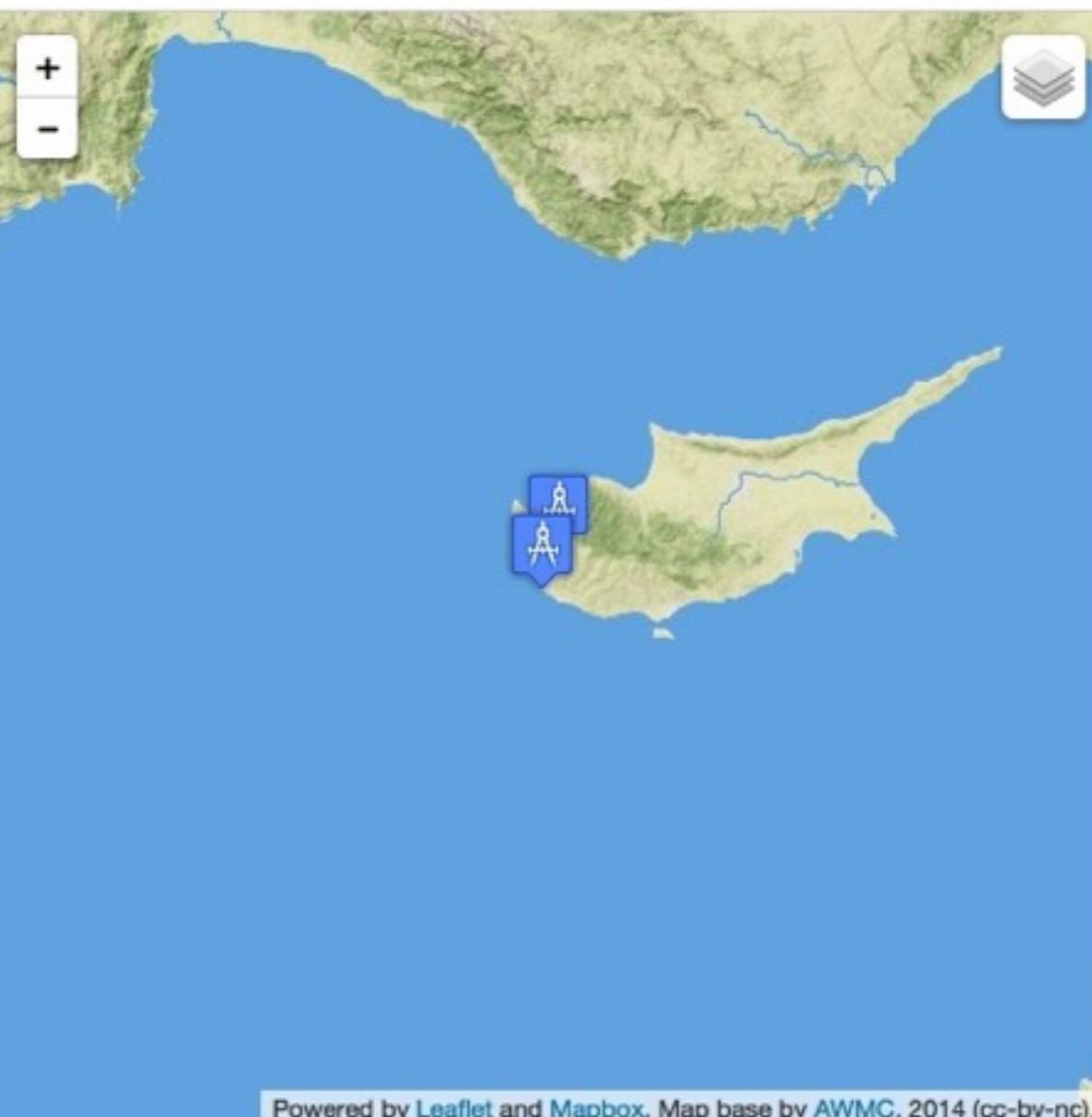
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Last modified Feb 01, 2014 01:58 PM — [History](#)

tags: dare:ancient=1, dare:major=1, dare:feature=major settlement, UWHS

The legendary birthplace of the goddess Aphrodite, (Nea) Paphos has been a center of activity since the Final Bronze Age when Mycenaeans honored the goddess there. The site was listed on the UNESCO World Heritage List in 1980.

Canonical URI for this page:



<http://pleiades.stoa.org/places/707586>

Search

[Search Site](#)

[Search](#)

[Advanced Search...](#)

## Photos



Odeon at Paphos (I) by Isawnyu.

[46 other related photos...](#)

Use this tag in Flickr to mark depictions of this place's site(s):

[pleiades:depicts=707586](#)

or this one to mark objects found here:

[pleiades:findspot=707586](#)

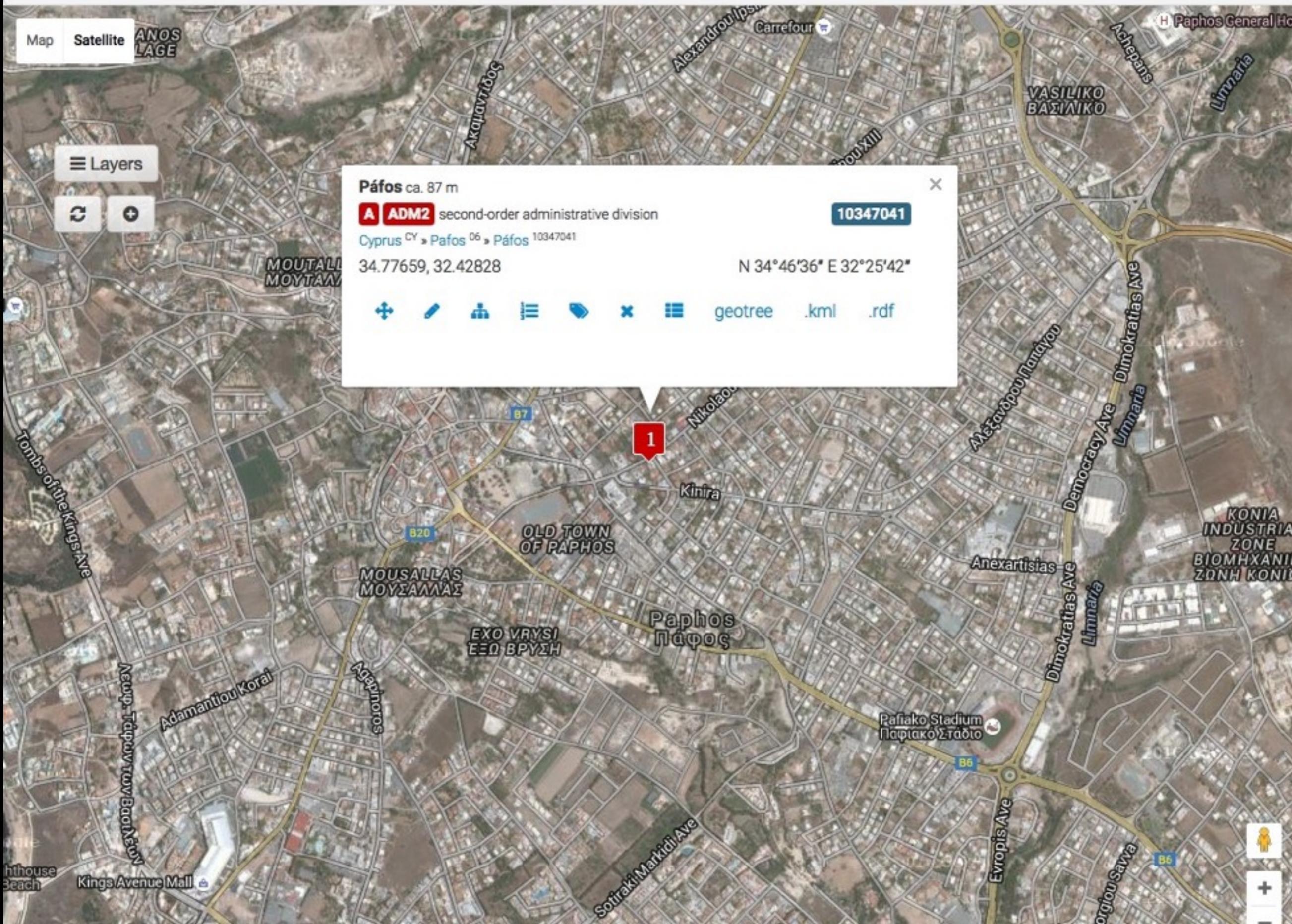
## Related Content from Pelagios

### (Nea) Paphos

American Numismatic Society ([124](#)); Inventory of Greek Coin Hoards ([22](#)); Nomisma.org Partner Objects ([10](#)); PELLA ([9](#)); IDAI.objects ([3](#)); Epigraphic Database Heidelberg ([2](#))

Pelagios Datasets

[Editing Places](#)



Map Satellite

Layers

**Paphos Point** ca. 4 m

point

Cyprus CY ➤ Pafos 06

34.75488, 32.40071

146211

N 34°45'18" E 32°24'03"



1



Map

Satellite

≡ Layers



## Paphos ca. 81 m

P PPLA seat of a first-order administrative division

146214

Cyprus CY ➔ Pafos 06

population : 35961

34.77679, 32.42451

N 34°46'36" E 32°25'28"



geotree

.kml

.rdf

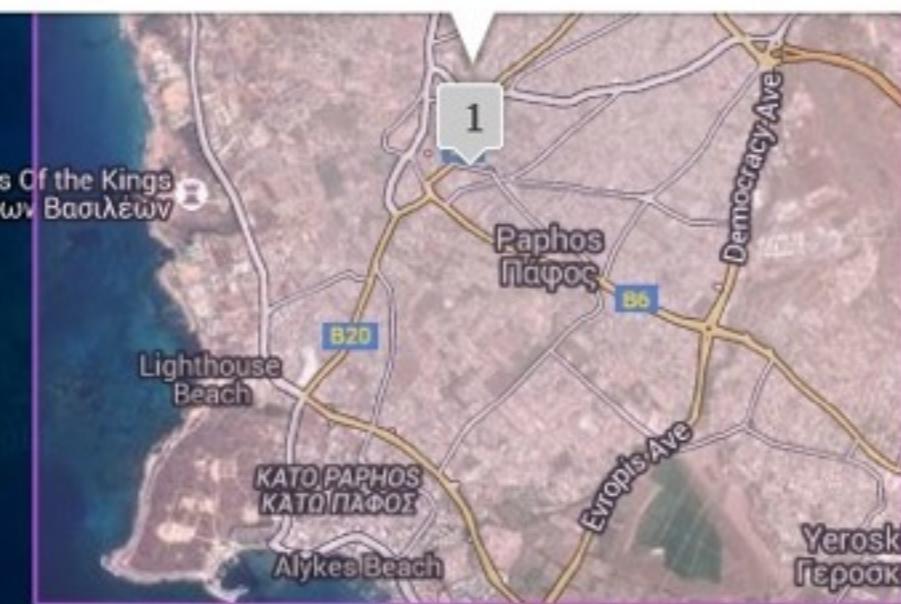
Tombs Of the Kings  
Τάφοι των ΒασιλέωνLighthouse  
BeachKATO PAPHOS  
ΚΑΤΟΠΑΦΟΣ

Alykes Beach

SODAP Beach

Pachyammos

Rikkos Beach

Konia  
ΚονίαAyia  
Marinouda  
Αγ. ΜαρινούδαMarathounta  
ΜαραθούνταAgia Varva  
Αγ. Βαρβά

Map

Satellite

≡ Layers

**Káto Páfos** ca. 18 m

PPLX section of populated place

Cyprus CY ➤ Pafos 06

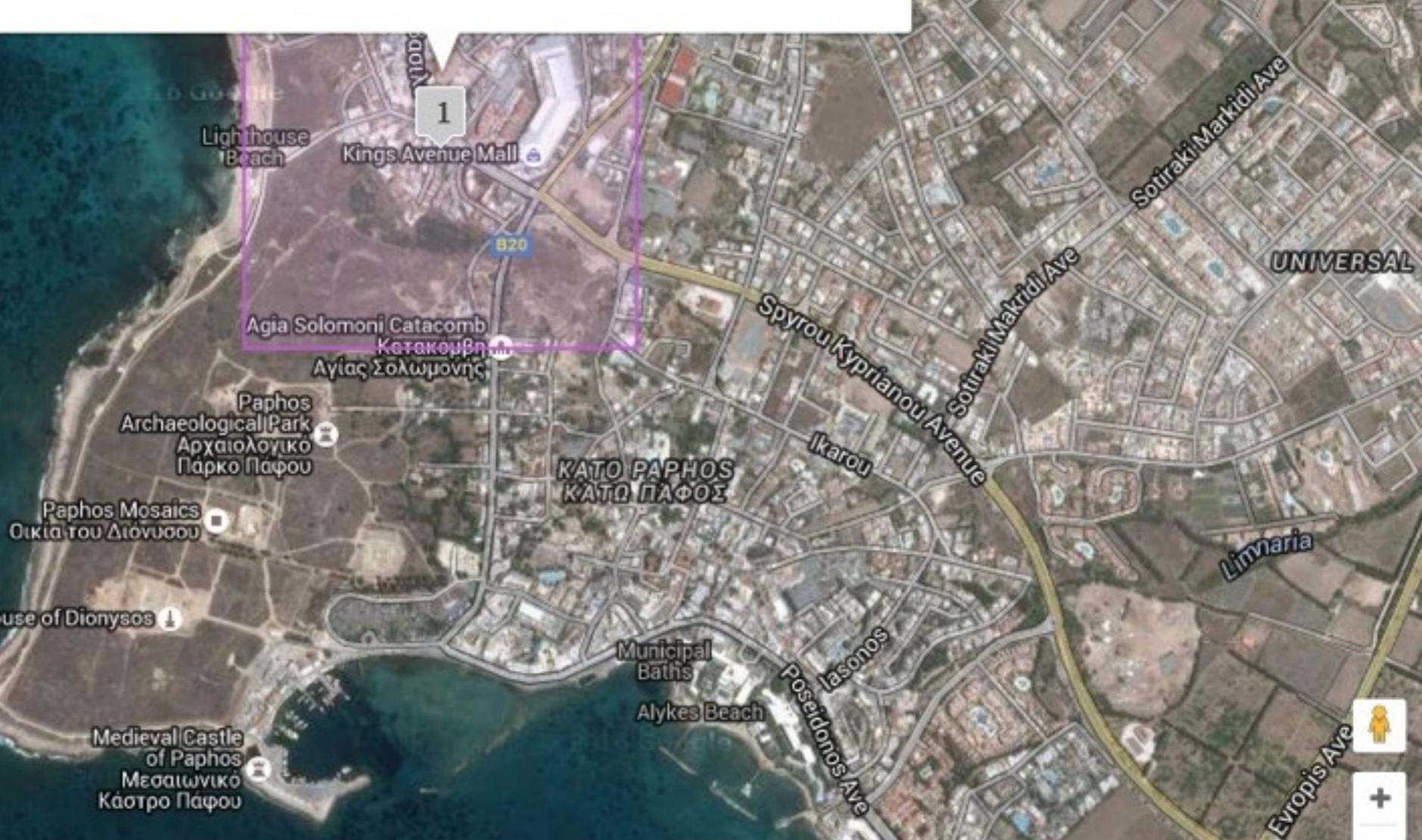
34.76496, 32.41104

146272

N 34°45'54" E 32°24'40"



geotree .kml .rdf



Map

Satellite

Layers

**Néa Páfos** ca. 10 m **ANS** archaeological/prehistoric site

414543

Cyprus CY ➤ Pafos 06

34.75658, 32.40478

N 34°45'24" E 32°24'17"

geotree .kml .rdf



You are here: [Home](#) → [Ancient Places](#) → Tehrān

## Tehrān

Creators: B. Siewert-Mayer, W. Röllig, H. Kopp

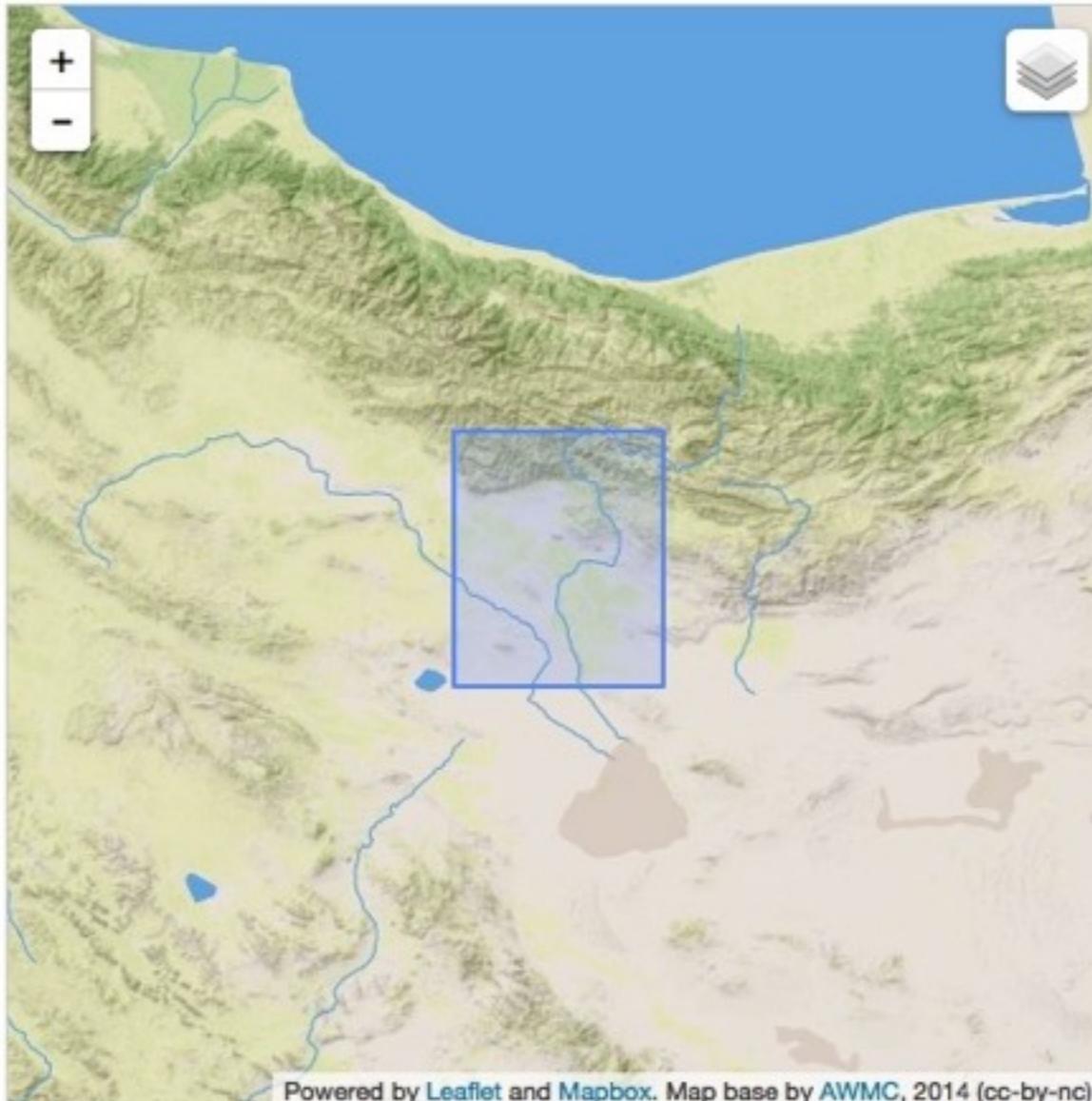
Contributors: Sean Gillies, Francis Deblauwe, Eric Kansa

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A place from the TAVO Index

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Show place in AWMC's Antiquity À-la-carte, Google Earth, or Pelagios' Periplo.

## Search

Search Site

[Advanced Search...](#)

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This place has no portrait photo. One from the list of related photos could be suggested for the Pleiades Places group on Flickr.

0 other related photos...

Use this tag in Flickr to mark depictions of this place's site(s):

pleiades:depicts=599986393

or this one to mark objects found here:

pleiades:findspot=599986393

## Related Content from Pelagios

This place is unknown to Pelagios.

[Pelagios Datasets](#)

## Editing Places

[Citation Guide](#)

Map

Satellite

Layers



Tehrānpārs ca. 1425 m

P PPLX section of populated place

Iran IR → Tehrān 26

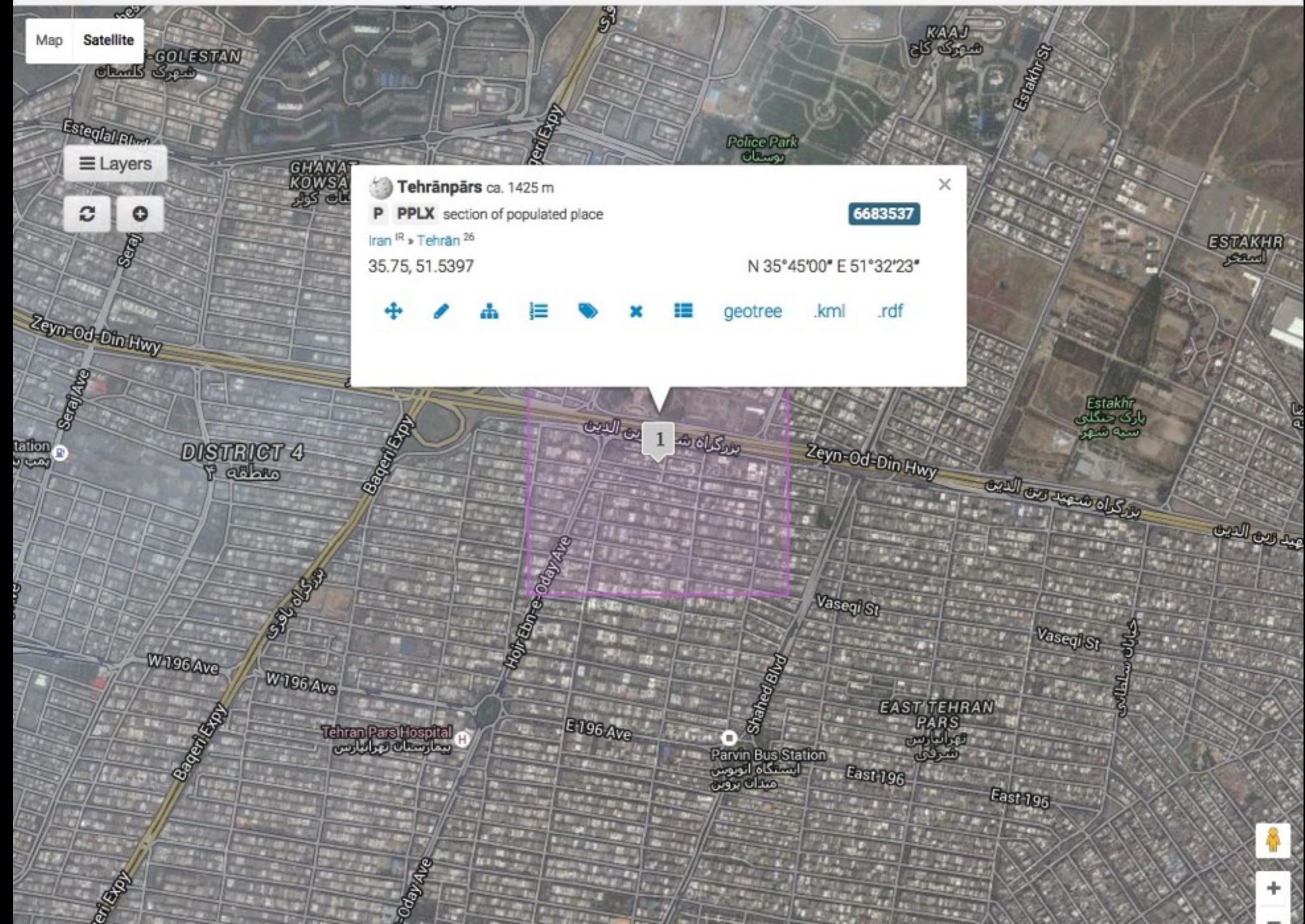
35.75, 51.5397

6683537

N 35°45'00" E 51°32'23"



1



Map

Satellite

≡ Layers

**Tehrān** ca. 1375 m**P** PPL populated placeIran IR ➤ **Tehrān** 26

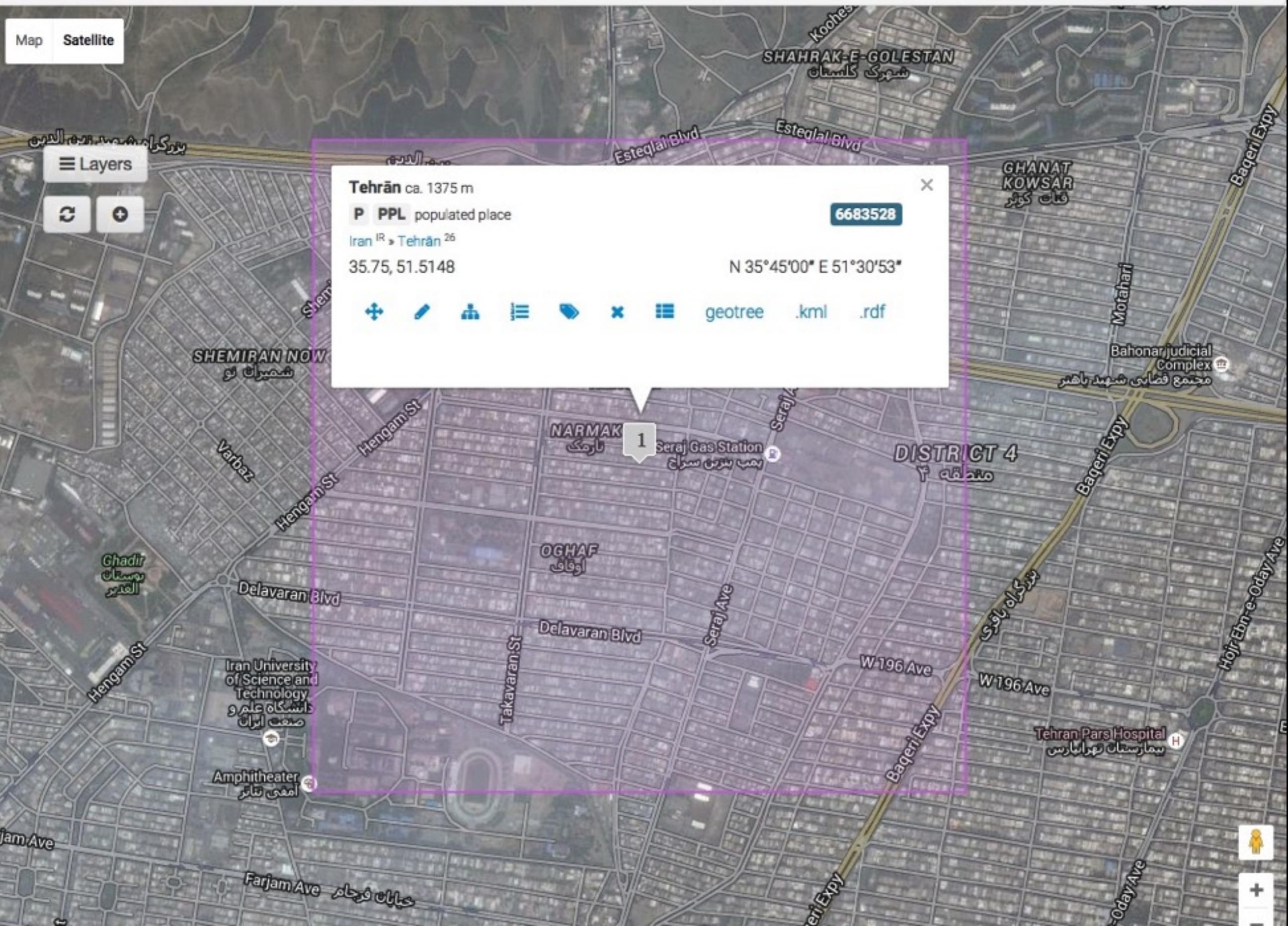
35.75, 51.5148

6683528

N 35°45'00" E 51°30'53"



geotree .kml .rdf



[Map](#) [Satellite](#)

## Satellite

≡ Layers



Tehrān ca. 1285 m

**P PPLX** section of populated place

6659608

Iran IR » Tehrān 26

N 35°43'34" E 51°19'49"



1

FERDOWS

E Ferdows Blvd

FERDOWS  
فردوس

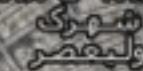
*Sheikh Fazlollah Nuri Expy*

W-Shakouri-St. همراه شکوری

Map

Satellite

SHAHRAK-E-VALI-E-ASR

Baharan Park  
بوستان بهارانZAMZAM  
زمزم

Cheraghi Expy

Layers



Tehrān ca. 1111 m

P PPLX section of populated place

6659550

Iran IR &gt; Tehrān 26

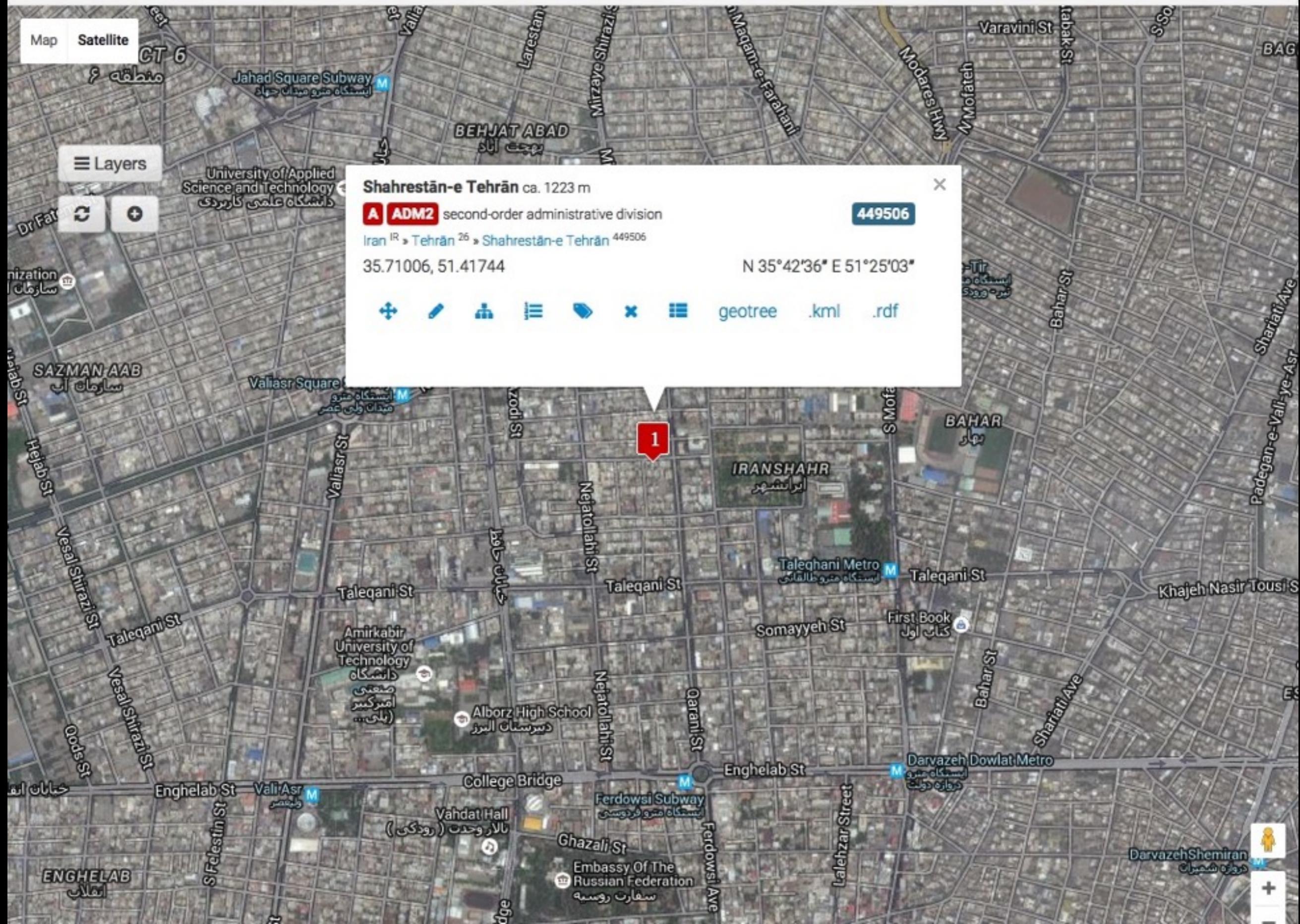
35.6373, 51.3516

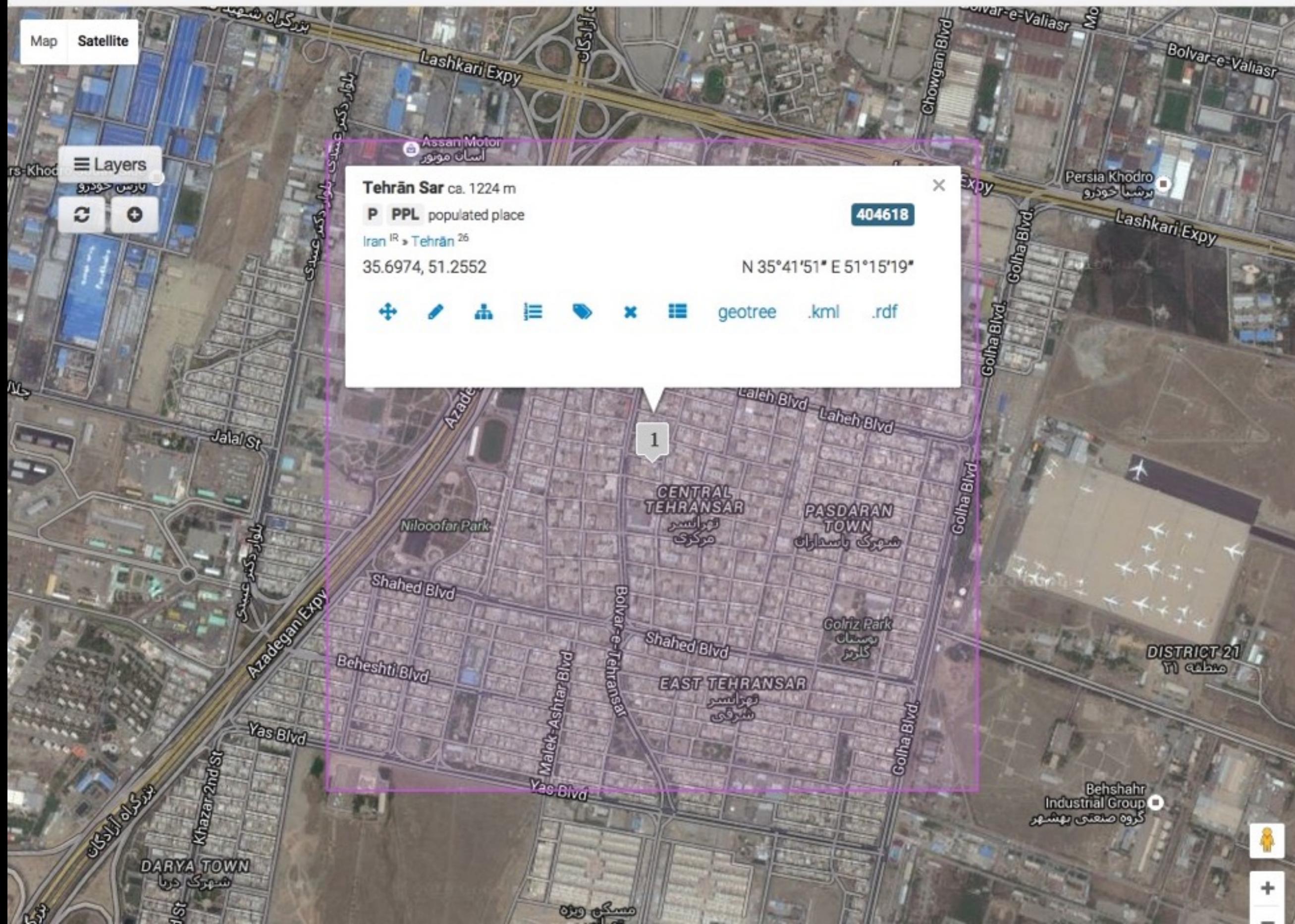
N 35°38'14" E 51°21'06"



geotree .kml .rdf

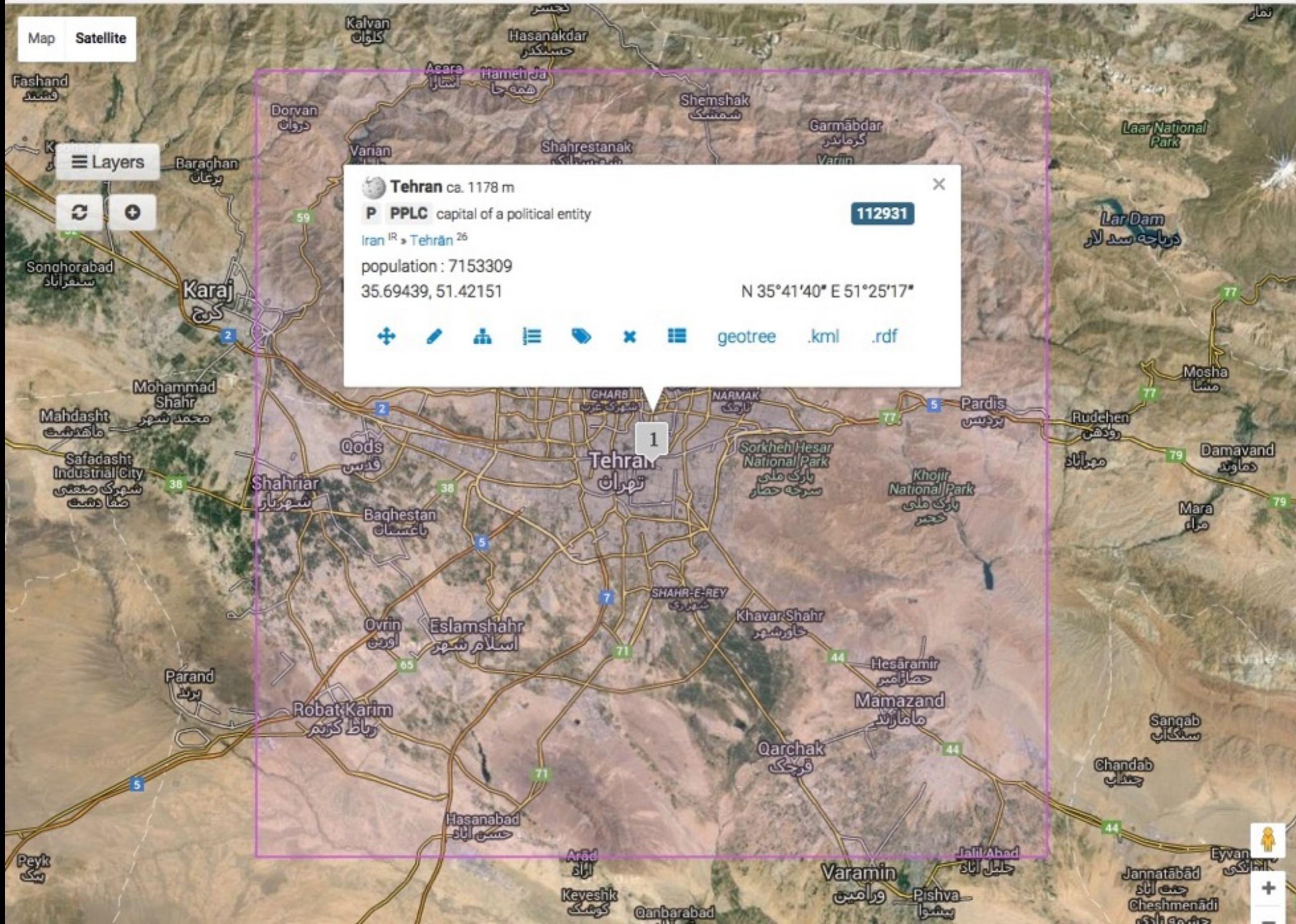






Map

Satellite



Map

Satellite

≡ Layers



Tehrān ca. 769 m

RGN region

Iran IR → Semnān 25

35, 52

112930

N 35°00'00" E 52°00'00"



1



Map

Satellite

خیابان فرجام Ave

**Tehrānpārs** ca. 1305 m

P PPLX section of populated place

Iran IR &gt; Tehran 26

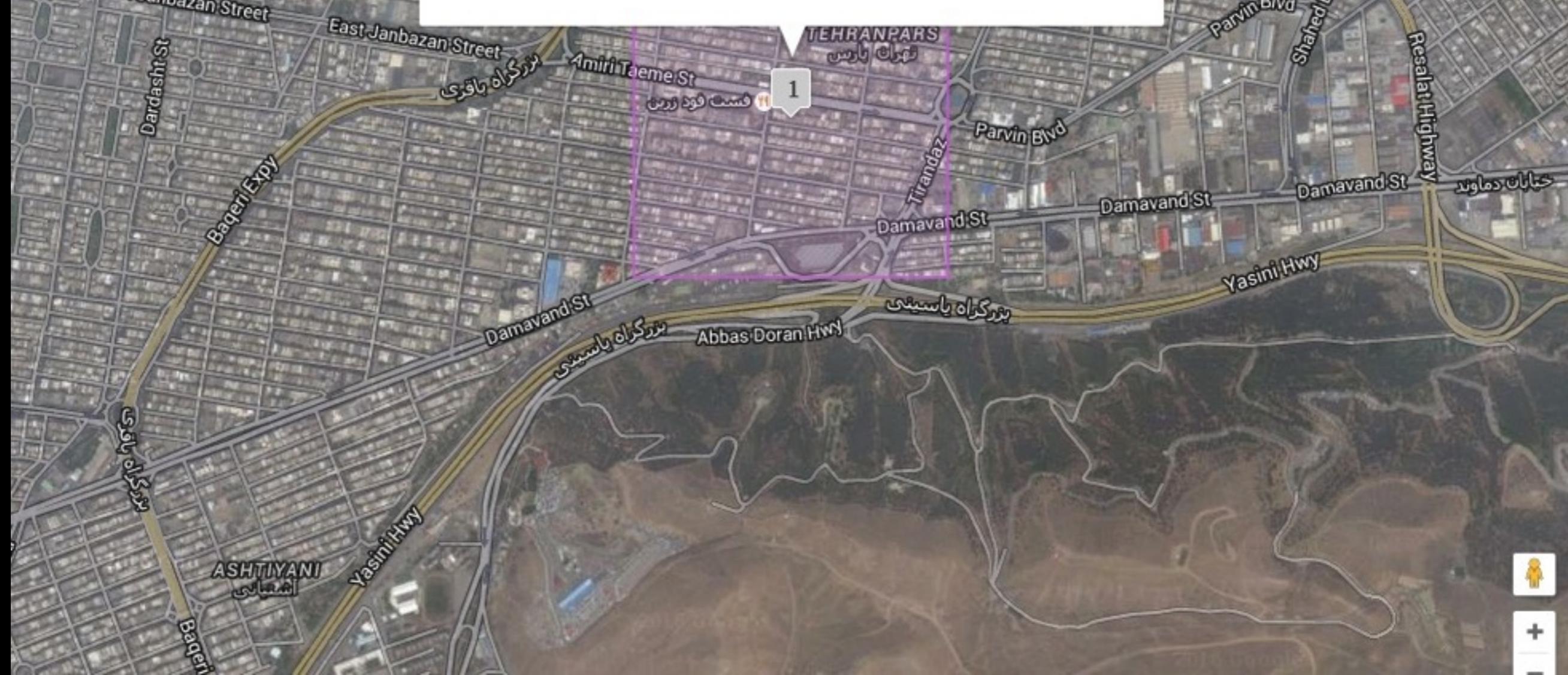
35.72634, 51.5206

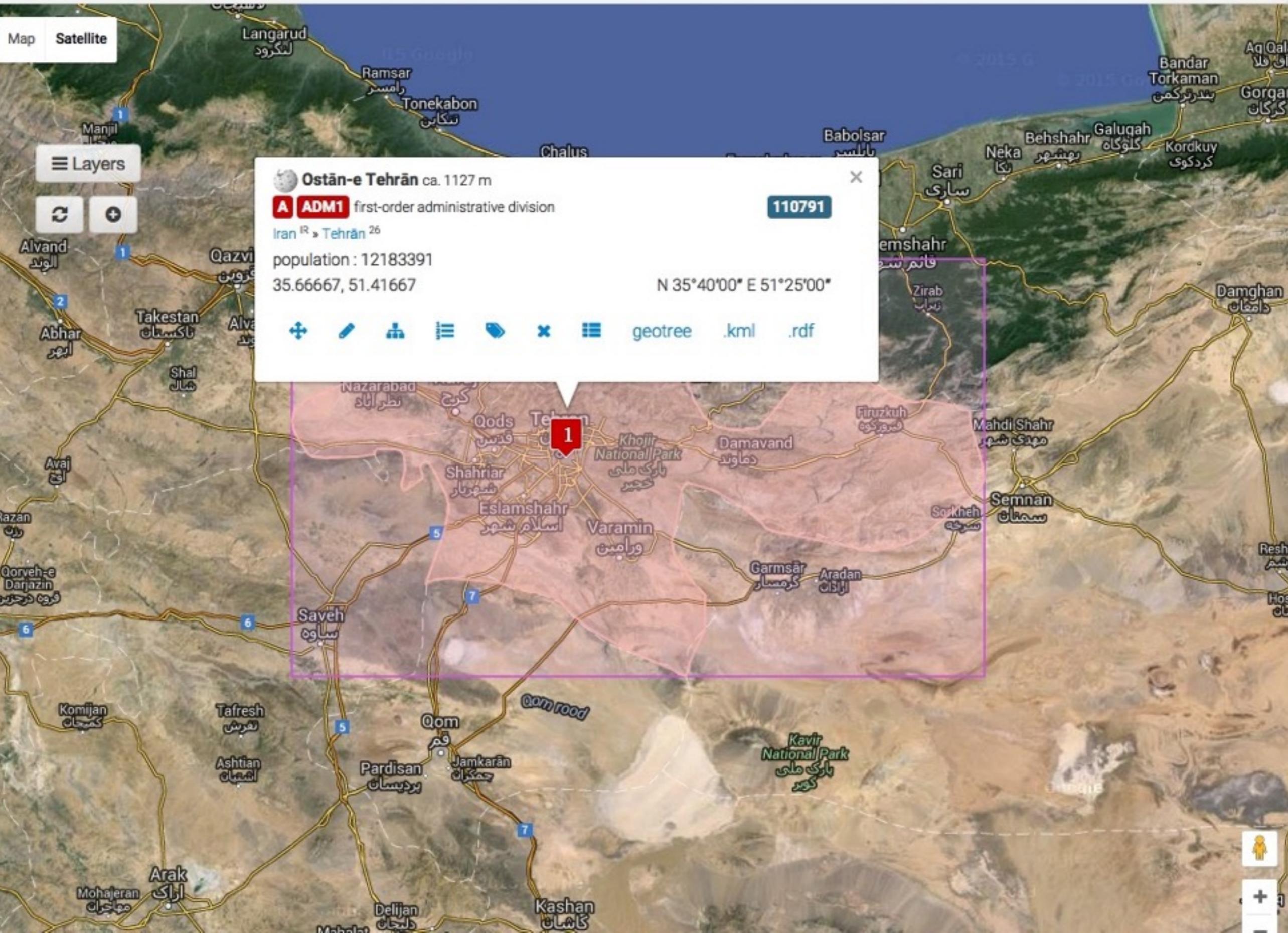
112929

N 35°43'35" E 51°31'14"



geotree .kml .rdf





<https://github.com/PerseusDL/gazComp>

Geonames: <http://sws.geonames.org/736770/>

Pleiades: <http://pleiades.stoa.org/places/491526>

	coords	coords
	40.623703, 23.469685	40.64074, 23.4888
names		names
Apollonia		Apollonia, Pazaroúdhia, Απολλωνία
description		description
		populated place
related		related
		<a href="http://pleiades.stoa.org/places/507366">http://pleiades.stoa.org/places/507366</a>

An ancient road station and settlement along the Via Egnatia in Mygdonia, between Amphipolis and Thessaonik i. Located near the modern municipality of Nea Apollonia in the Thessaloniki province of Greece. Possibly at a location now called Polina (Papazoglou) or a site between Nea Apollonia and Kokkalou excavated by Hatzopoulos in the early 1990s.

# Wait, what's a “place” match?

- Related to LOD vocabulary alignment problem
- Any meaningful alignment between an ancient place and a modern administrative boundary?
- May be many-to-many, not one-to-one

# PLEIADES

[Home](#) [Browse Places](#) [Download Data](#) [Blog](#) [Credits](#) [Documentation](#) [Vocabs](#)

You are here: Home → Ancient Places → Panormos

## Panormos

Creators: C. Foss, G. Reger

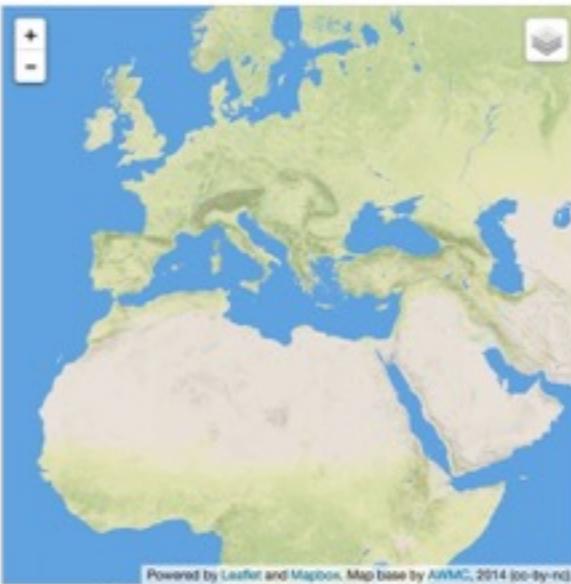
Contributors: R. Talbert, T. Elliott, sgriles

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An ancient place, cited: BAtlas 61 unlocated Panormos

Canonical URI for this page:

Powered by Leaflet and Mapbox. Map base by AWMC, 2014 (cc-by-nd).  
Show place in AWMC's Antiquity A-la-carte, Google Earth, or Pelagios' Periplo.<http://pleiades.stoa.org/places/606349>

### Locations:

- Undetermined location (550 BC - AD 300)

### Names:

- Panormos (550 BC - AD 300)

Place type:  
unlocated

### Makes a connection with:

### Has a connection with:

### References:

- See Further: BAtlas 61 Panormos
- See Further: Koukoule 1982 53-56

Initial Provenance:  
Barrington Atlas: BAtlas 61 Panormos

### Details:

The Barrington Atlas Directory notes: on Kalymna

### Alternate representations:

Atom, JSON, KMZ, KML (Neighborhood), RDF+XML, Turtle

### Suggested citation:

Foss, C., G. Reger. "Places: 606349 (Panormos)". Pleiades. <<http://pleiades.stoa.org/places/606349>> [Accessed: June 7, 2016 5:56 pm]

### Cite this resource in Wikipedia:

{{cite web |url=<http://pleiades.stoa.org/places/606349> |title=Places: 606349 (Panormos) |author=Foss, C., G. Reger |accessdate=June 7, 2016 5:56 pm |publisher=Pleiades}}[Log in to add comments](#)

## Search

 Search Site [Advanced Search...](#)

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This place has no portrait photo. One from the list of related photos could be suggested for the Pleiades Places group on Flickr.

0 other related photos...

Use this tag in Flickr to mark depictions of this place's site(s):

`pleiades:depicts-606349`

or this one to mark objects found here:

`pleiades:findsport-606349`

## Related Content from Pelagios

[Panormos](#)[Pelagios Datasets](#)

## Editing Places

[Citation Guide](#)[Pleiades Contributor Agreement](#)[Pleiades Data Model](#)[Reference: Attributes of Places](#)[Technical Introduction to Places](#)

# Barrington Atlas Map Grids

- [1: Internum Mare](#)
- [2: Hibernia-Scandinavia](#)
- [3: Asia Occidentalis](#)
- [4: Arabia-Azania](#)
- [5: India](#)
- [6: Asia Orientalis](#)
- [7: Aremorica](#)
- [8: Britannia Superior](#)
- [9: Britannia Inferior](#)
- [10: Rhenus-Albis](#)
- [11: Sequana-Rhenus](#)
- [12: Mogontiacum-Regnum-Lauriacum](#)
- [13: Vindobona](#)
- [14: Caesarodunum-Burdigala](#)
- [15: Arelate-Massalia](#)
- [16: Colonia Forum Iulii-Albingaunum](#)
- [17: Lugdunum](#)
- [18: Augustonemetum-Vindonissa](#)
- [19: Raetia](#)
- [20: Pannonia-Dalmatia](#)
- [21: Dacia-Moesia](#)
- [22: Moesia Inferior](#)
- [23: Tomis-Olbia-Chersonesos](#)
- [24: Asturica-Conimbriga](#)
- [25: Hispania Tarraconensis](#)
- [26: Lusitania-Baetica](#)
- [27: Hispania Carthaginensis](#)
- [28: Mauretania Tingitana](#)
- [29: Mauretania Caesariensis](#)
- [30: Iol Caesarea](#)
- [31: Cirta](#)
- [32: Carthago](#)
- [33: Theveste-Hadrumetum](#)
- [34: Numidia](#)
- [35: Tripolitana](#)
- [36: Garama](#)
- [37: Syrtica](#)
- [38: Cyrene](#)
- [39: Mediolanum](#)
- [40: Patavium](#)
- [41: Pisae](#)
- [42: Arretium-Asculum](#)
- [43: Latium Vetus](#)

<http://atlantides.org/capgrids/61>

# Grid of *Barrington Atlas Map 61: Ephesus*

## Cartographic Scale

1:500,000

## Map Bounds: Left, Bottom, Top, Right (degrees)

(25.0, 36.0, 29.0, 38.5)

## Grid Columns

A-H

## Grid Rows

1-5

See also: the Classical Atlas Project's [Layout and Map Order](#) document.

## Alternate representations

- [RDF+XML](#)
- [Turtle](#)

Map

Satellite

≡ Layers

**Pánormos** ca. 15 m**P** PPLL populated locality

6951116

Greece GR » South Aegean ESYE42 » Kykládes 49 » Mykonos 9290

37.47629, 25.35717

N 37°28'35" E 25°21'26"

geotree .kml .rdf

1

Panormos  
ΠάνορμοςMykonos  
Panormos Villas

Panormos Beach

Marathi  
(Mýkonou)

Map

Satellite

Layers



Pánormos ca. 108 m

P PPL populated place

255848

Greece GR ➤ South Aegean ESYE42 ➤ Kykládes 49 ➤ Tinos 9301

37.63958, 25.04137

N 37°38'22" E 25°02'29"



geotree .kml .rdf

Panormos  
ΠάνορμοςChurch Agios Nikolaos  
Εκκλησία  
Άγιος ΝικόλαοςMuseum of Marble  
Crafts of TinosPlatia  
ΠλατιάVenardatos  
Βεναρδάτος

Map

Satellite

≡ Layers



© 2013 Google

ήρι  
ωριακής**Pánormos** ca. 13 m**P** PPL populated place

6951006

Greece GR ➤ South Aegean ESYE42 ➤ Dodecanese 47 ➤ Kalymnos 9276

population : 2069

36.97156, 26.93727

N 36°58'18" E 26°56'14"

geotree .kml .rdf

Kantouni Beach  
ALKYONIS APARTMENTS  
Panormos  
Πάνορμος

National Bank of Greece  
Εθνική Τράπεζα της Ελλάδος  
Chorio Xwrioi  
Potamoi  
artos & meli (bakery-pastry-catering)

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You are here: Home → Ancient Places → Termessos

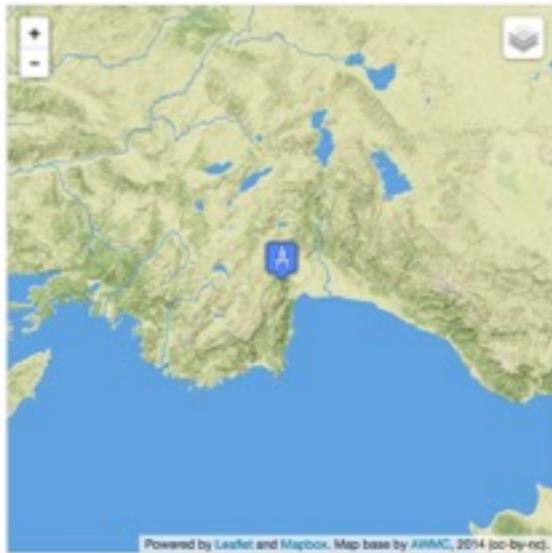
## Termessos

Creators: C. Foss, S. Mitchell  
 Contributors: DARMC, R. Talbert, Sean Gillies, Johan Åberg, Jeffrey Becker, Tom Elliott  
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 Last modified Feb 26, 2013 05:06 PM — History

tags: date:ancient=1, date:major=1, date:feature=major settlement

An ancient place, cited: BAtlas 65 D4 Termessos

Canonical URI for this page:



Powered by Leaflet and Mapbox. Map base by [DARMC](#), 2014 (cc-by-nd).  
 Show place in [DARMC's Antiquity A-to-z](#), [Google Earth](#), or [Pelagios' Perioikoi](#).  
 Show area in [Geohash](#), [Google Maps](#), or [OpenStreetMap](#).

<http://pleiades.stoa.org/places/639139>

- Locations:
  - DARMC location 6306 (550 BC - AD 640)
  - DARMC location 1455 (550 BC - AD 640)
  - DARE Location (550 BC - AD 640)

- Names:
  - Termessos (550 BC - AD 640)

Place type:  
settlement

- Makes a connection with:
  - Solymos M.

- Has a connection with:

- References:
  - See Further: BAtlas 65 D4 Termessos
  - See Further: RE Termessos 2

Initial Provenance:  
Barrington Atlas: BAtlas 65 D4 TermessosDetails:  
The Barrington Atlas Directory notes: GÜLLÜK DAĞAlternate representations:  
Atom, JSON, KML, KML (Neighborhood), RDF+XML, TurtleSuggested citation:  
Foss, C., S. Mitchell. "Places: 639139 (Termessos)". Pleiades. <<http://pleiades.stoa.org/places/639139>> [Accessed: June 8, 2016 7:44 am]

Cite this resource in Wikipedia:

```
[[cite web |url=http://pleiades.stoa.org/places/639139 |title=Places: 639139 (Termessos) |author=Foss, C., S. Mitchell |accessdate=June 8, 2016 7:44 am |publisher=Pleiades]]
```

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Help

Vernacular Display | English Display

Click the icon to view the hierarchy.

[Semantic View \(JSON, JSONLD, RDF, N3/Turtle, N-Triples\)](#)

ID: 5004400

Record Type: administrative

## Termessus (deserted settlement)

Coordinates:

Lat: 36 58 57 N degrees minutes Lat: 36.9820 decimal degrees  
Long: 030 27 53 E degrees minutes Long: 30.4640 decimal degrees

Elevation:

3280.840 feet 1000.0000 meters

**Note:** Was a Pisidian city built at an altitude of more than 1000 meters at the south-west side of the mountain GÜLLÜK DAĞI; located 25 km NW of Antalya.

## Names:

Termessus (preferred, C,V,S)  
 Termessos (C,V)  
 Τερμησσός (C,V,Greek,U) ..... ancient

## Hierarchical Position:

```

graph TD
    World[World (facet)] --> Asia[Asia (continent)]
    Asia --> Turkey[Turkey (nation)]
    Turkey --> Antalya[Antalya (province)]
    Antalya --> Termessus[Termessus (deserted settlement)]
  
```

## Place Types:

deserted settlement (preferred, C) ..... was ancient city  
 archaeological site (C)  
 inhabited place (H)

## Related geographic places:

near/adjacent to ... Antalya ..... (inhabited place)  
 ..... (World, Asia, Turkey, Antalya) [7002378]  
 near/adjacent to ... GÜLLÜK DAĞI ..... (mountain)  
 ..... (World, Asia, Turkey, Antalya) [7594003]

## Sources and Contributors:

Termessos ..... [GRLPSC, VP Preferred]  
 ..... GRI Photo Archive, Authority File (1998) 8543  
 ..... Princeton Encyclopedia of Classical Sites (1979) 896-897  
 Termessus ..... [VP]  
 ..... Atlas of Greek & Roman World (1981) 52  
 Τερμησσός ..... [VP]  
 ..... Archaeology Magazine [online] (2000-)  
 Subject: ..... [GRLPSC, VP]  
 ..... ARLIS/NA: Ancient Site Names (1995)  
 ..... Atlas of Greek & Roman World (1981) 52  
 ..... GRI Photo Archive, Authority File (1998) 8543  
 ..... Princeton Encyclopedia of Classical Sites (1979) 896; 896-897

## Note:

English ..... [VP]  
 ..... Princeton Encyclopedia of Classical Sites (1979)

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# Current Alignments

- Pleiades<->GeoNames:  
<https://github.com/ryanfb/pleiades-plus>
- Pleiades<->TGN (Getty Thesaurus of Geographic Names):  
<https://github.com/ryanfb/pleiades-tgn>
- CHGIS/Regnum Francorum<->GeoNames:  
Merrick Lex Berman & Johan Åhlfeldt, Historical Gazetteer System Integration

# Future Alignments?

- Pleiades<->OpenStreetMap/OpenHistoricMap
- Pleiades<->Wikipedia/Wikidata
- Pleiades<->VIAF
- Syriac Gazetteer<->\*
- Al-Thurayya<->\*

# Future Integration

- Surface quality links back in source projects themselves

# Bonus Round: GeoRefine

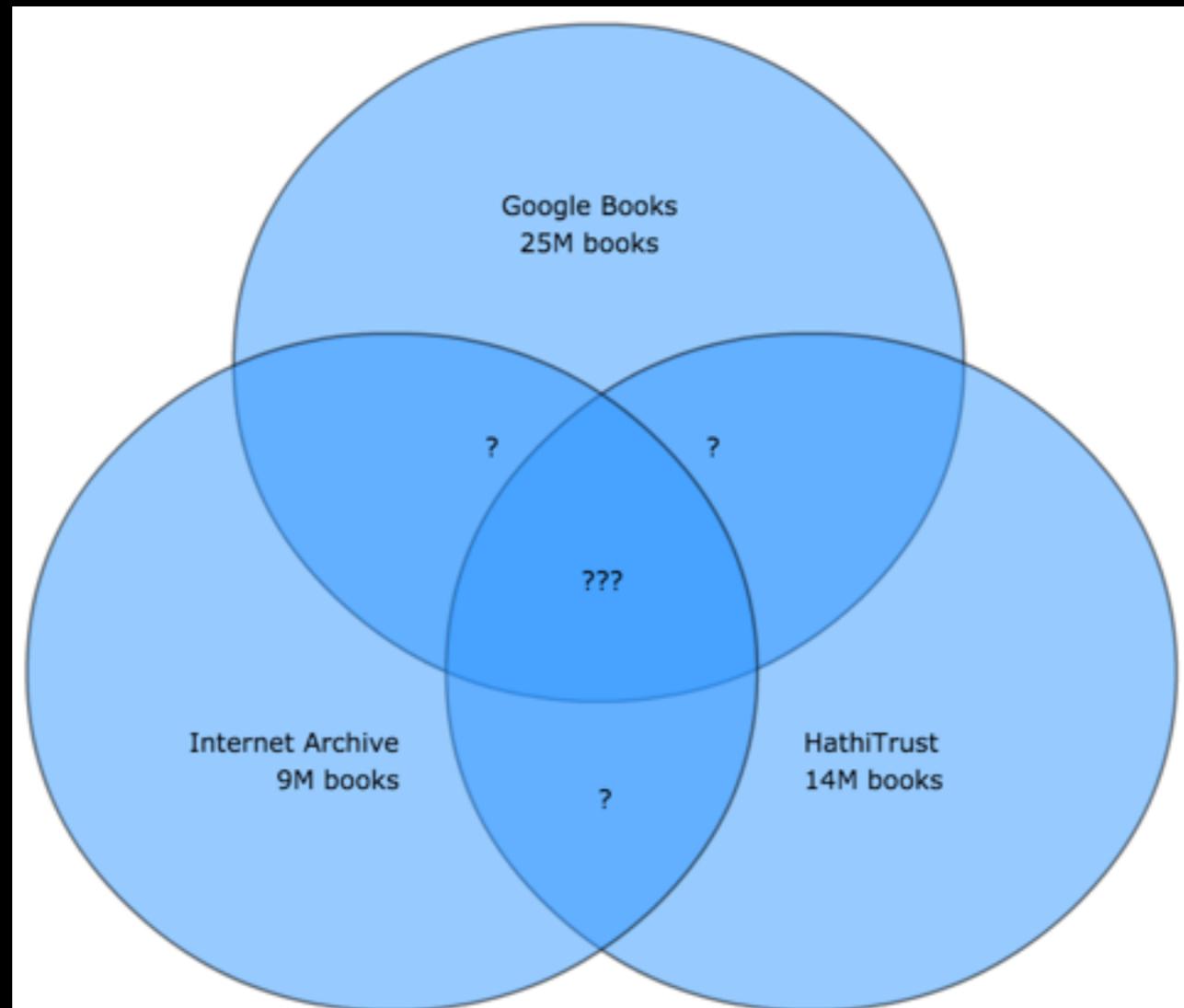
- <https://github.com/ryanfb/georefine>
- Adds GeoSpatial functions to OpenRefine:  
<http://openrefine.org/>

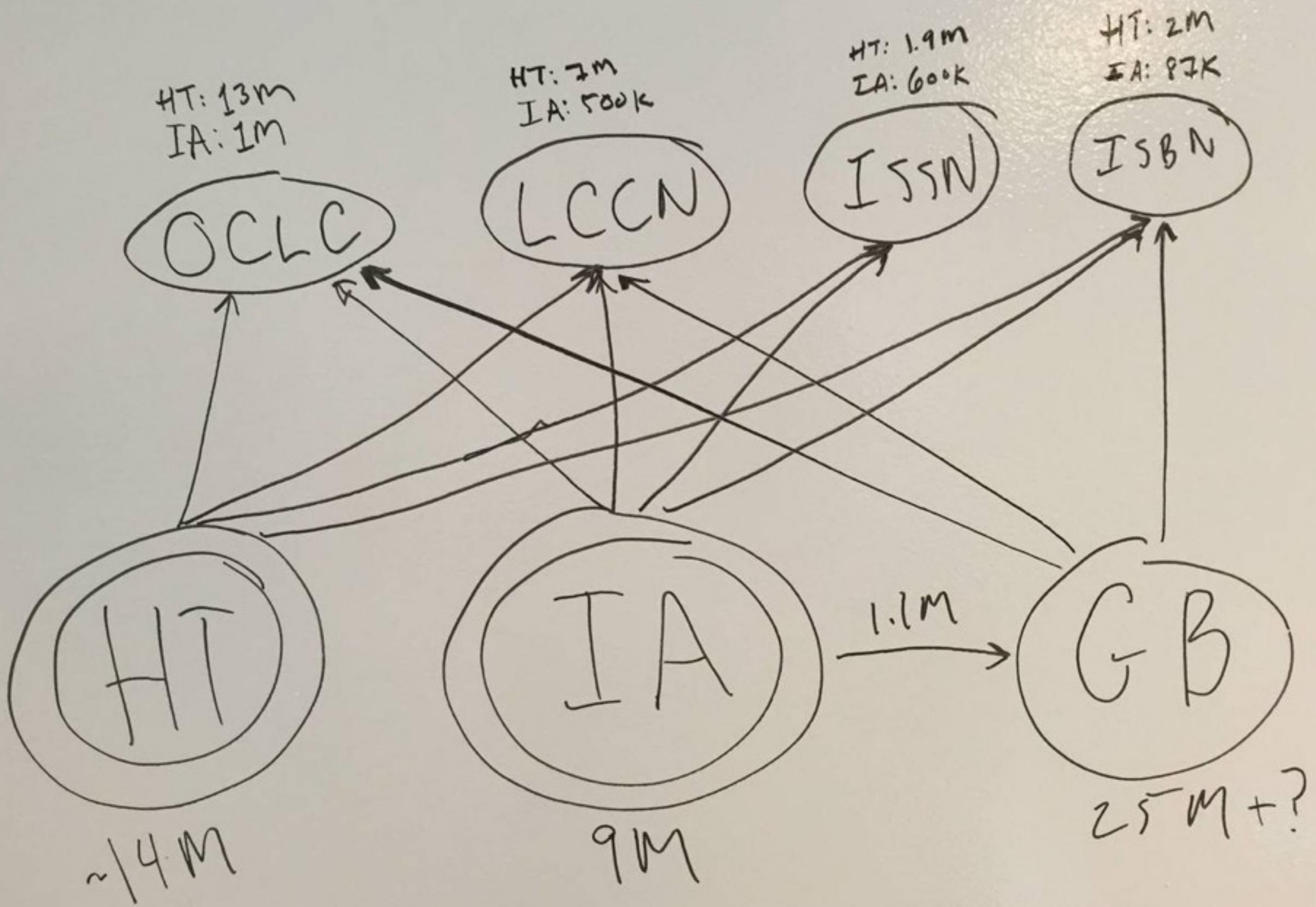
## GREL functions

- `point` : creates a point from latitude and longitude in the WGS84 coordinate reference system
- `distance` : computes the distance between two points in meters
- `parseGeoJson` : parses [GeoJSON](#) string
- `parseWkt` : parses [WKT](#) string
- [All geometry relationship functions described here:](#)
  - `equals`
  - `contains`
  - `within`
  - `overlaps`
  - `crosses`
  - `touches`
  - `intersects`
  - `disjoint`
  - `relate`

# Bonus Bonus Round? Book Aligner

<http://ryanfb.github.io/book-aligner/>





# Book Aligner

[View on GitHub](#)

Find matching books for a given HathiTrust, Internet Archive, or Google Books URL.

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Search:

Identifier	Title	Year	Volume	Pages	OCLC	Score
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 n_VOqOVGGcYC	Opvscvla academica collecta et animadversionibvs locvpletata	1785		458		100
 mdp.39015058525919	Opvscvla academica collecta et animadversionibvs locvpletata.	1785	v.1		<a href="#">9772746</a>	5
 uiug.30112098696773	Opvscvla academica collecta et animadversionibvs locvpletata.	1785	v.1-2		<a href="#">9772746</a>	5
 opvscvlaacademi01heyngoog	Opvscvla academica collecta et animadversionibvs locvpletata	1812	6	494	<a href="#">9772746</a>	0
 BxZLh5ZZcA0C	Opvscvla academica collecta et animadversionibvs locvpletata	1812		518		0

Showing 1 to 6 of 6 entries

Thank you!!!