

Geospatial discovery at the British Library: challenges and opportunities

Dr Gethin Rees

Lead curator, digital mapping

Outline

- Content
- Metadata
- User Impact
- User Experience

Print maps



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A PLAN of the CITIES of LONDON & WESTMINSTER, THE BOROUGH OF SOUTHWARK and their Suburbs BY WILLIAM FADEN Geogr to the King MDCCLXXXV



Maps within books

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PLAN der k. Kreishauptstadt REGENSBURG mit der Stadt STADTHOF

Druck Carl von Anst von S. Rist Regensburg.

British Library + Follow

Image taken from page 197 of 'Regensburg in seiner Vergangenheit und Gegenwart. Herausgegeben von dem historischen Verein ... Mit ... Holzschnitten und

110 views 0 faves 0 comments Taken on November 27, 2013

No known copyright restrictions



Born-digital maps

Legal Deposit Library - Great Britain Map Portal

euston

Layers Metadata Print

LandLine 1998 MasterMap 2018

LeftMap Right Map

- Only background
- + XYZ
- + GeInformation Group
- Ordnance Survey
- Integrated Transport Network
- Mastermap / Landline Topography Layer
- Contours

Legend

OSMM topographic area 2018

- Unclassified - 1:35 to 1:100,000
- Tidal Water - 1:35 to 1:100,000
- Foreshore - 1:35 to 1:100,000
- Marsh - 1:35 to 1:100,000
- Inland Water - 1:35 to 1:100,000
- Multiple surface - 1:35 to 1:100,000
- Natural Fill - 1:35 to 1:100,000
- Manmade Fill - 1:0 to 1:4,000
- Natural roadside - 1:0 to 1:4,000
- Manmade roadside - 1:0 to 1:4,000
- Rail Natural - 1:0 to 1:4,000
- Rail Manmade - 1:0 to 1:4,000
- Path - 1:0 to 1:4,000

Scale: 1: 3,600
Grid Reference: ---
Coordinates: ---

Contains Ordnance Survey data © Crown copyright and database rights 2019
Contains Ordnance Survey data © Crown copyright and database rights 1998

Contains Ordnance Survey data © Crown copyright and database rights 2019
Contains Ordnance Survey data © Crown copyright and database rights 2018

Archaeological Survey of India photographs



Lala Deen Dayal, Sanchi stupa from the south-west during repairs, 1881 Albumen print. Photo 1001/1 (1342)

spacetime.nypl.org/surveyor

The New York Public Library | NYC Space/Time Directory | **Surveyor**

1 Save score Help About

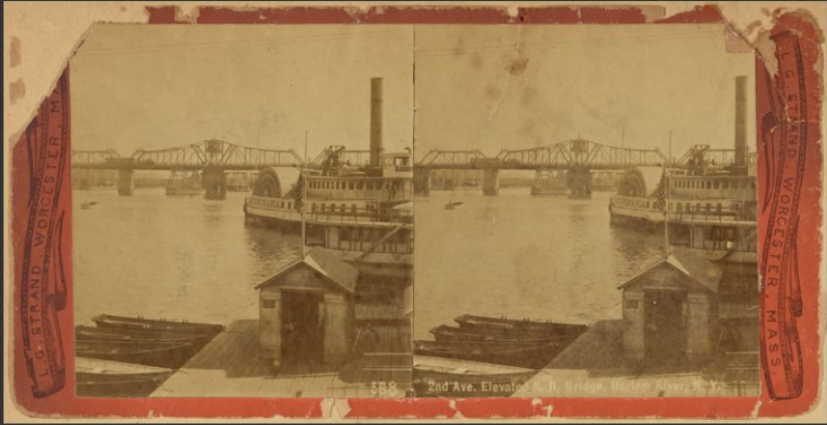
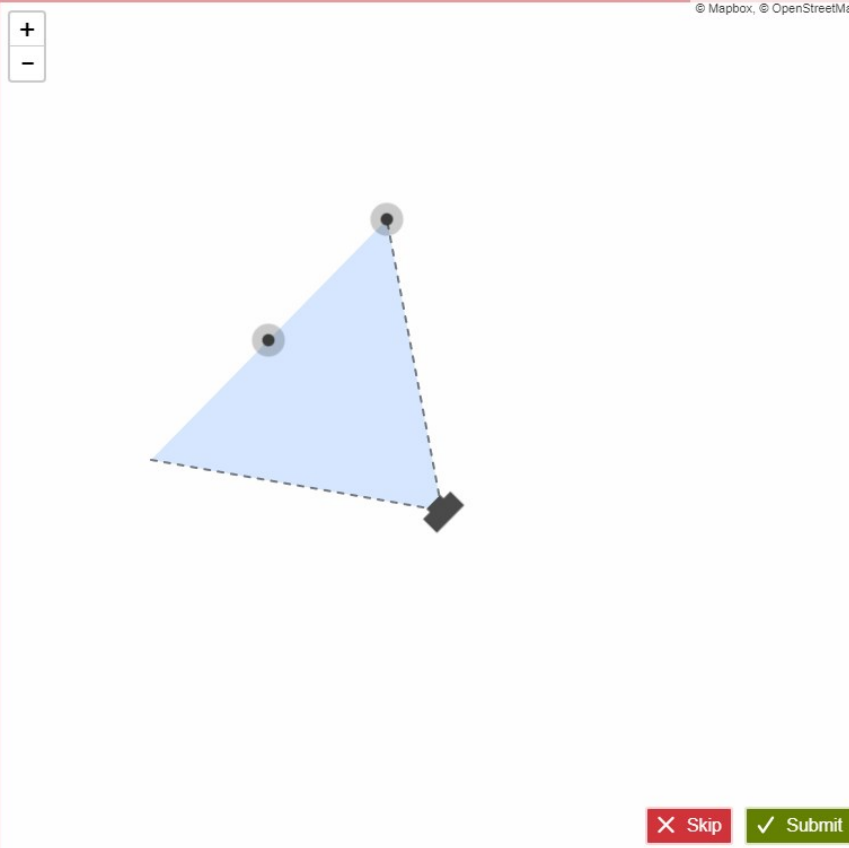
© Mapbox, © OpenStreetMap

2nd Avenue Elevated RR Bridge with steamer Morrisania in foreground on Harlem River

View in high resolution in [Digital Collections](#)

📍 2nd Av-E 120th St-Harlem River

📅 1885

+

-

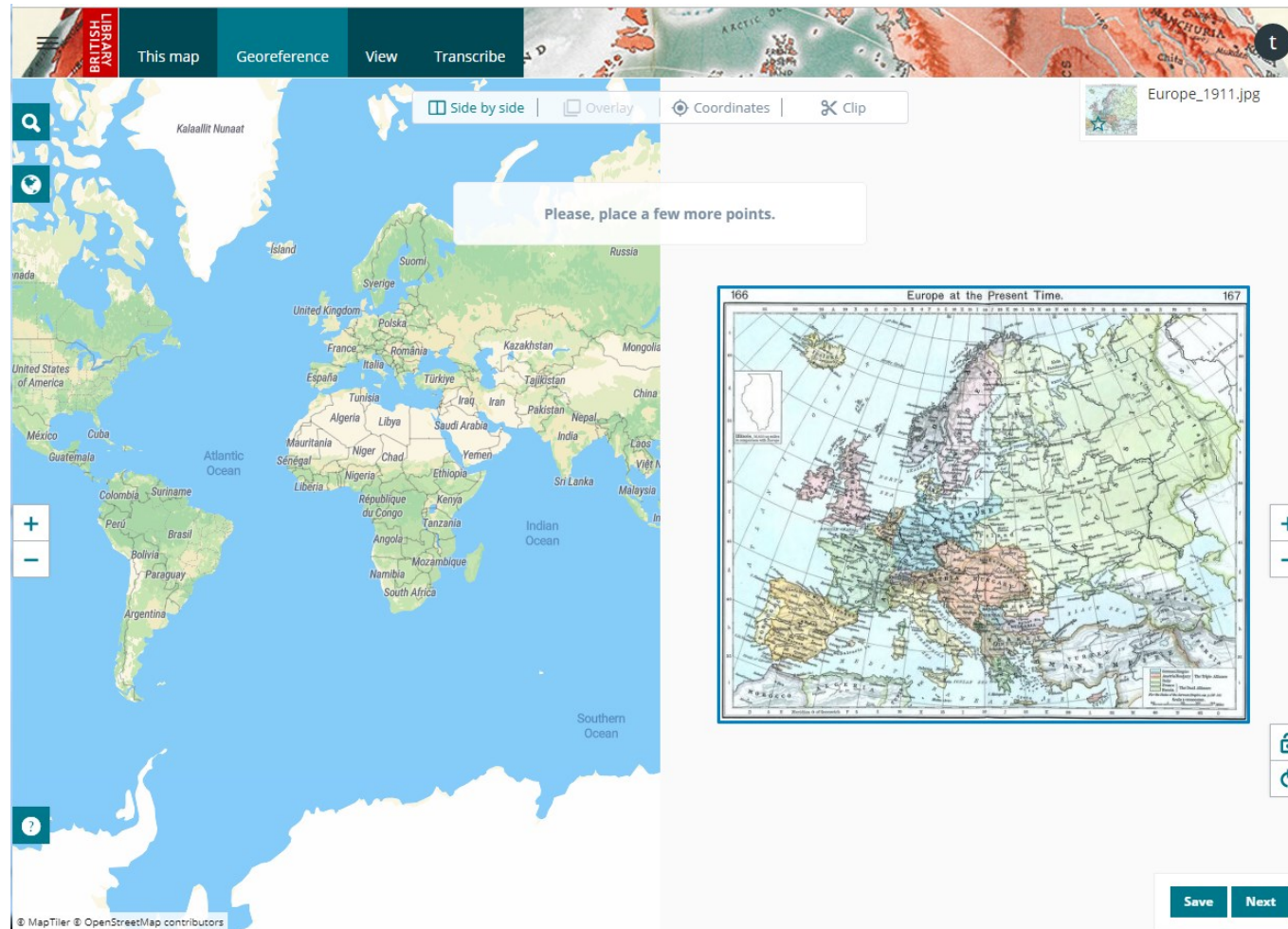
✗ Skip ✓ Submit

Save our sounds



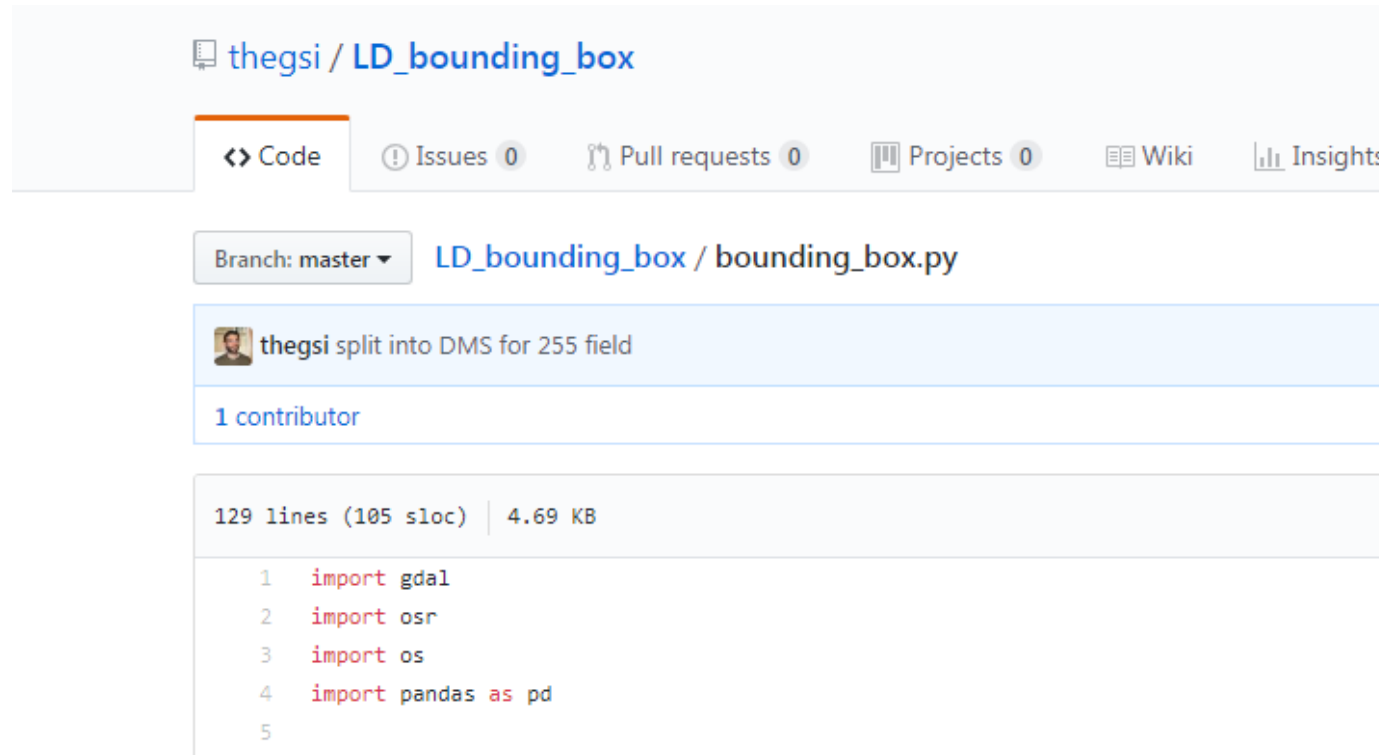
music.britishcouncil.org/sites/default/files/styles/large/public/BritishLibrary_saveoursounds_sized.jpg

Georeferencer



Marc metadata for GIS

github.com/theysi/LD_bounding_box



thesisi / LD_bounding_box

<> Code Issues 0 Pull requests 0 Projects 0 Wiki Insights

Branch: master LD_bounding_box / bounding_box.py

thesisi split into DMS for 255 field

1 contributor

129 lines (105 sloc) | 4.69 KB

```
1 import gdal
2 import osr
3 import os
4 import pandas as pd
5
```

Marc bounding box

```
24500 |a [map of Spain]
255 |a Approximate scale: 1:4 million |c (W003°34'01"--W000°39'47"/N043°35'05"--N041°53'02").
004 1 |a [London] : |b [British Library] ; |b [Flickr], |c [2017]
```

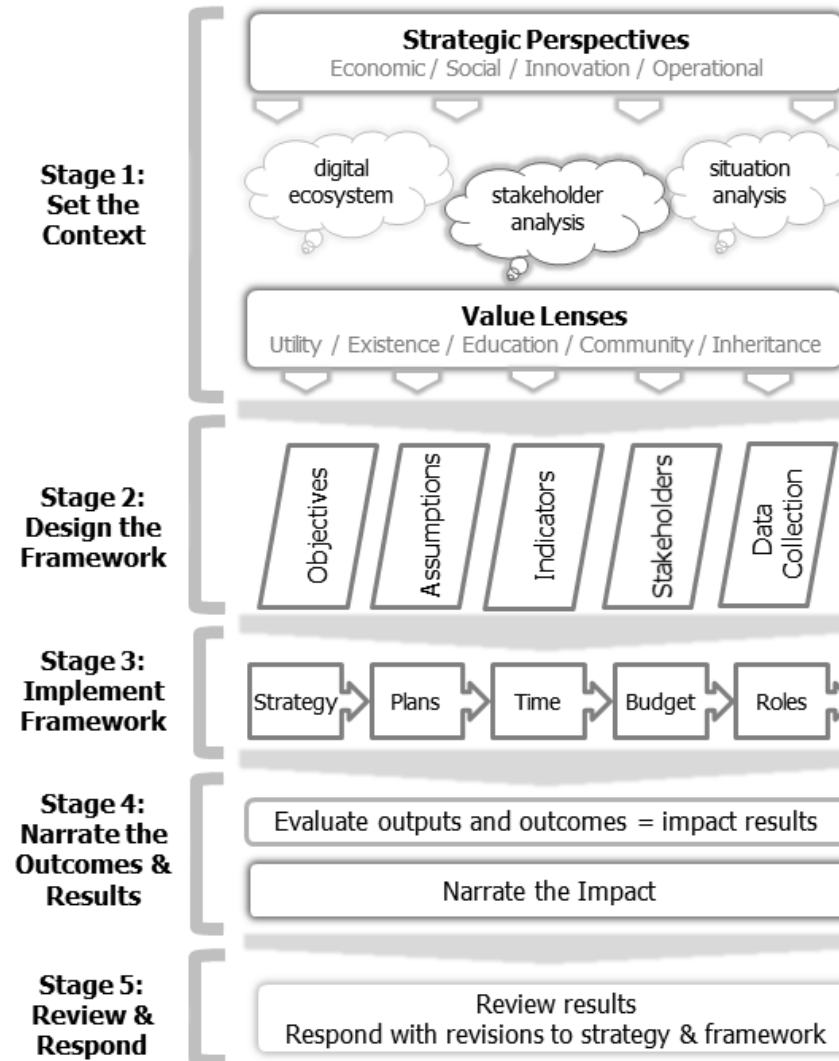
Item Details

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007	cr a
008	170202r20171881 a o
0341	a a b 4000000 d W0033401 e W0003947 f N0433505 g N0415302
040	a Uk b eng c Uk e rda
042	a ukblproject
08204	a 912.46 2 23
24500	a [Map of Spain]
255	a Approximate scale: 1:4 million c (W003°34'01"--W000°39'47"/N043°35'05"--N041°53'02").
264 1	a [London] : b [British Library] ; b [Flickr], c [2017]
300	a 1 online resource (1 map)

Authority files



Balanced value impact model (BVIM)



BVIM strategic perspectives

- Social and Audience Impacts
- Economic Impacts
- Innovation Impacts
- Operational Impacts

BVIM value lenses

- Utility Value
- Existence and/or Prestige Value
- Education Value
- Community Value
- Inheritance / Legacy Value

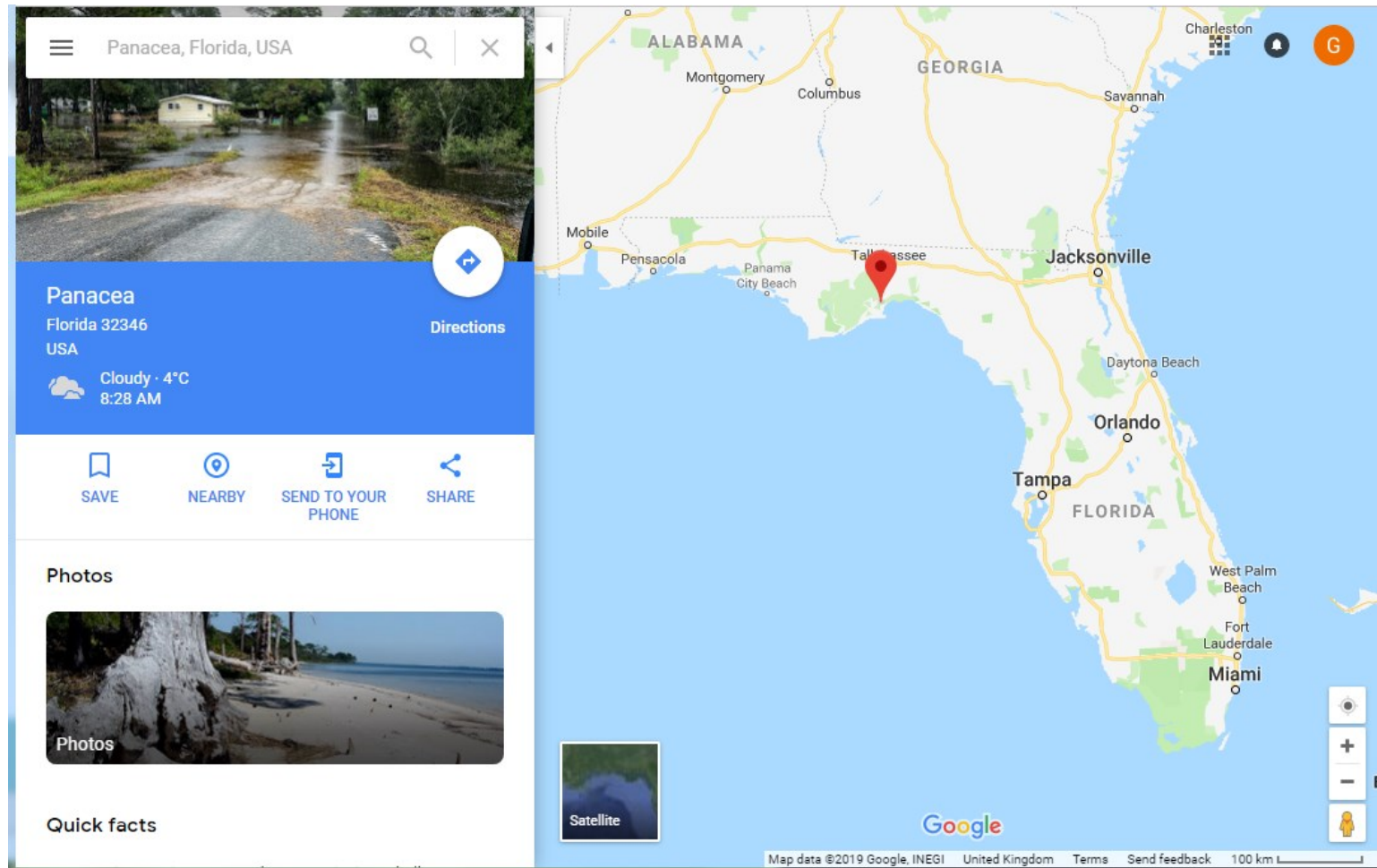
Discovery user story

As a reader I want to gain an overview of the collection in order to discover something that interests me

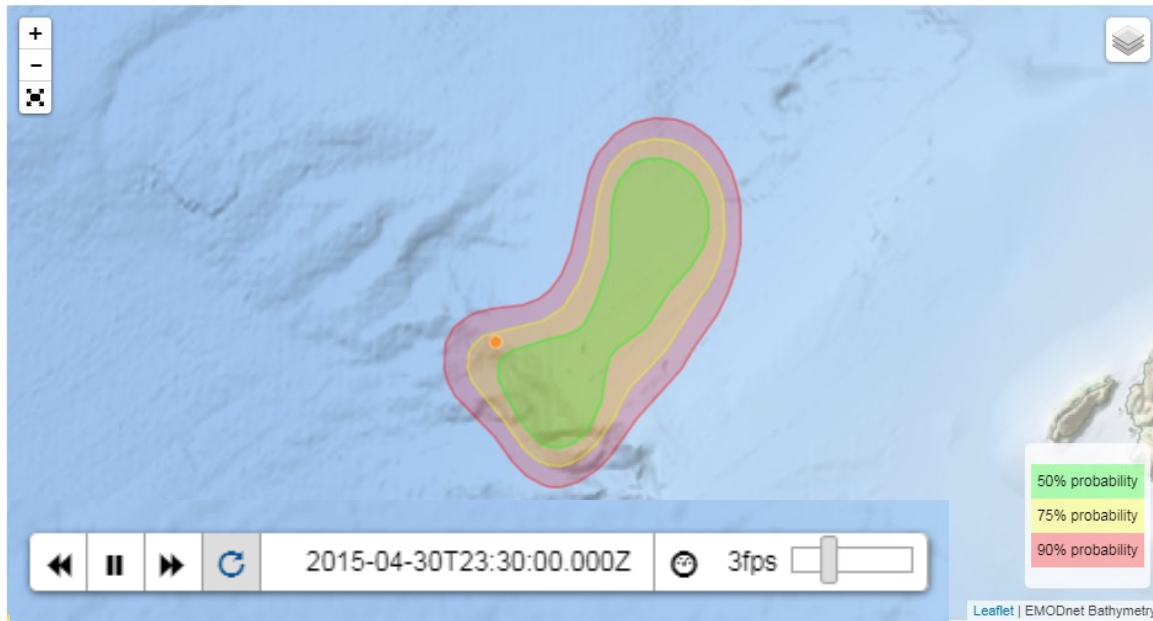
Research user story

As a researcher I want to determine if the collection contains relevant items in order to answer my question

Panacea, Florida

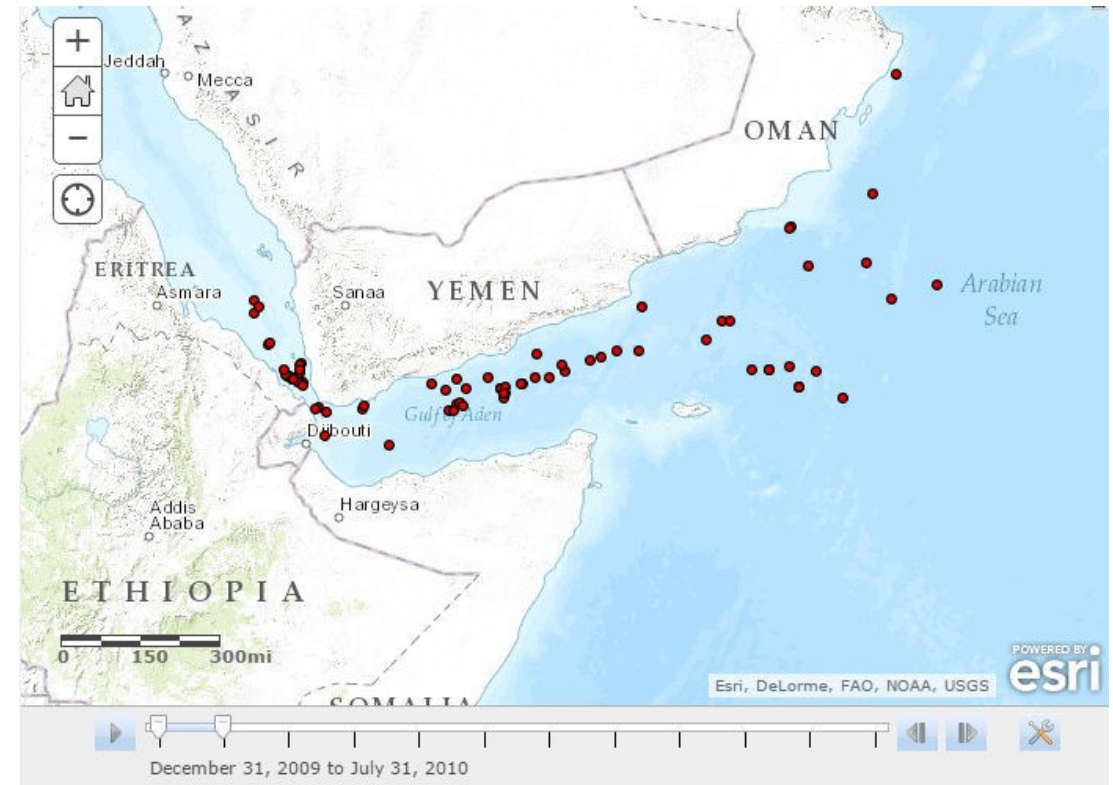


Map and time slider



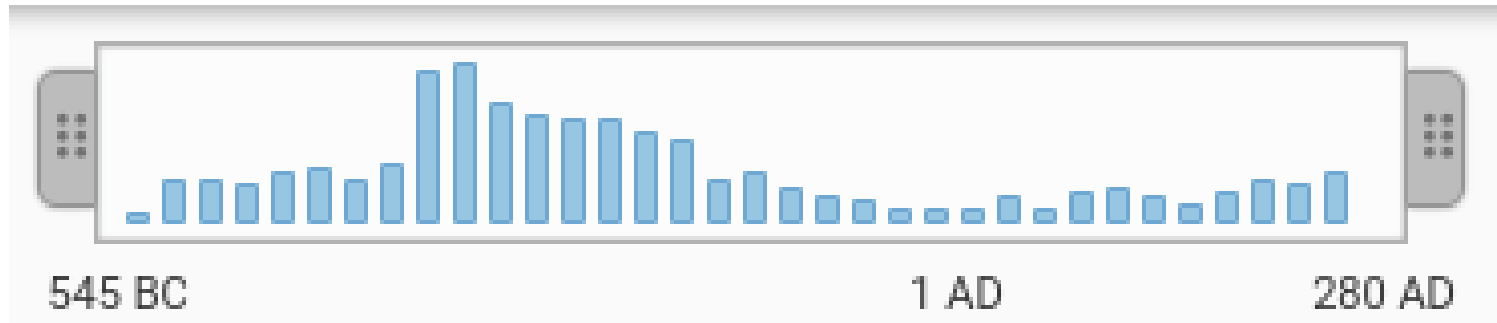
```
timeDimensionOptions: {
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  period: "PT1H"
},
```

apps.socib.es/Leaflet.TimeDimension/examples/example15.html

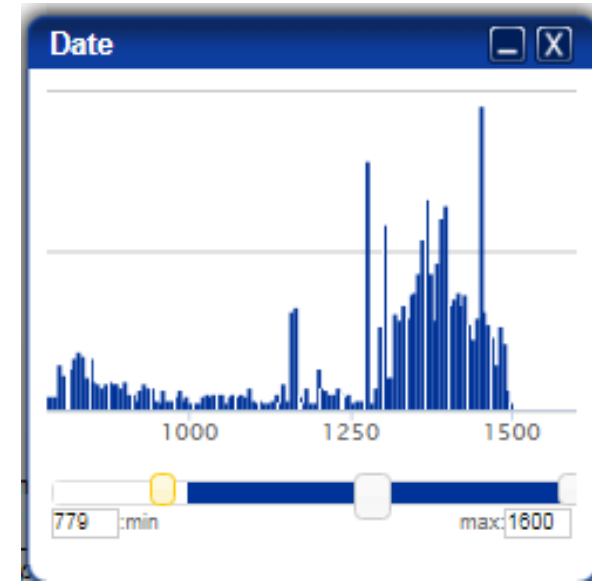


community.esri.com/servlet/JiveServlet/showImage/38-58773-401051/origMap.jpg

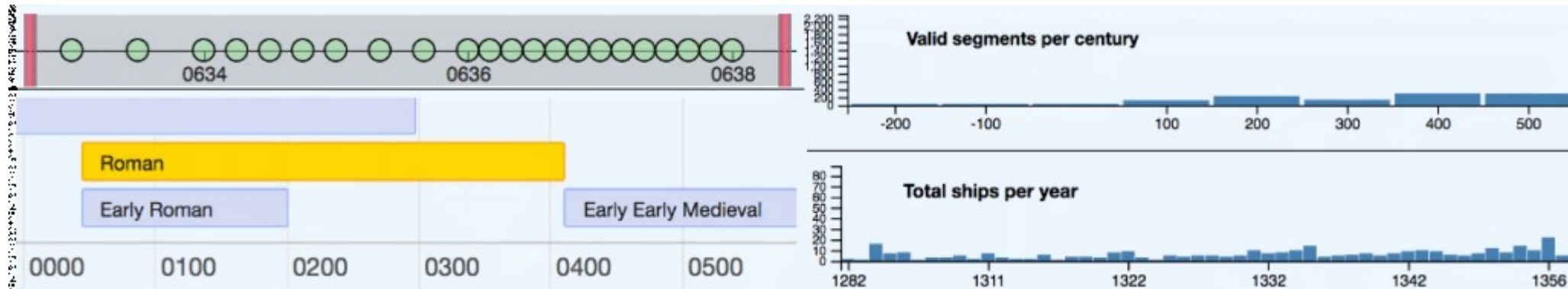
Temporal visualisation



peripleo.pelagios.org

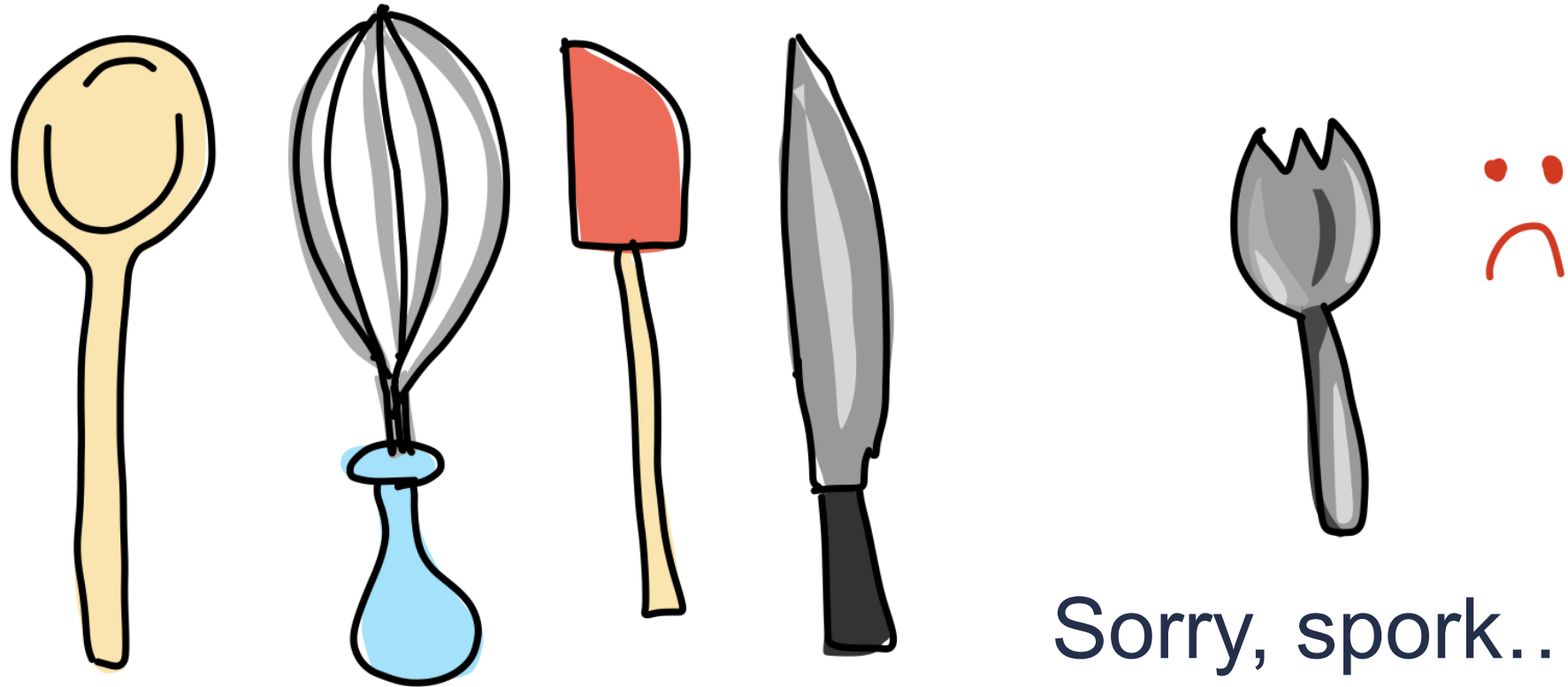


byzantinejewry.net



kgeographer.com/wp-content/uploads/2017/06/figure3-768x141.png

Single Responsibility Principle



Sorry, spork...

Lara Schenck @laras126

<https://i1.wp.com/notlaura.com/wp-content/uploads/2019/02/single-responsibility-principle.png>

GeoJSON/T

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "id": "",
      "properties": {},
      "geometry": {},
      "when": {}
    }
  ]
}
```

```
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        "latest": "nnnn-nn-nn"
      },
    }
  ],
  "periods": [
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    }
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  "label": "for a century in the Hellenistic period"
}
```

kgeographer.com/a-case-for-geojson-t

BL georeferenced maps

