



europaena
think culture

Building on the Europeana API

Remy Gardien

Europeana Space Technical Workshop, March 2015

→ Available APIs



REST API

- Access to the full institutional metadata
- MyEuropeana APIs for personal tools such as tagging
- API returns JSON, JSON-LD and RDF/XML



Media Discovery Toolset

- Access to all technical metadata of the objects
- Facets for exploring media in various ways
- Filter objects that have thumbnails and/or a direct link to a media file

Will be available in the coming weeks



Documentation on Labs



→ Examples



Give me all openly licensed Mona Lisa's

[search.json?query=mona+lisa&type=IMAGE&reusabilit](#)

```
▼ search
{
  "action": "search.json",
  "success": true,
  "requestNumber": 999,
  "itemsCount": 12,
  "totalResults": 40,
  "items": [
    ▼ {
      "id": "/2021638/dispatcher_aspx_action_search_database_ChoiceCollect_search_prirref_15810",
      "completeness": 6,
      ▶ "europeanaCollectionName": [ ... ], // 1 item
      "index": 0,
      ▶ "edmDatasetName": [ ... ], // 1 item
      ▶ "provider": [ ... ], // 1 item
      "europeanaCompleteness": 6,
      ▶ "edmPreview": [ ... ], // 1 item
      "previewNoDistribute": false,
      ▶ "title": [ ... ], // 2 items
      ▶ "dataProvider": [ ... ], // 1 item
      ▶ "dcCreator": [ ... ], // 1 item
      ▶ "rights": [ ... ], // 1 item
      ▶ "edmIsShownAt": [ ... ], // 1 item
      "score": 12.682327,
      "timestamp": 1415635535920,
      ▶ "language": [ ... ], // 1 item
      "type": "IMAGE",
      "optedOut": false,
      "guid": "http://www.europeana.eu/portal/record/2021638/dispatcher_aspx_action_search_databa
      "link": "http://www.europeana.eu/api/v2/record/2021638/dispatcher_aspx_action_search_databa
      "timestamp_created_epoch": 1415635569280,
      "timestamp_update_epoch": 1415635569280,
      "timestamp_created": "2014-11-10T16:06:09.280Z",
      "timestamp_update": "2014-11-10T16:06:09.280Z"
    },
  ]
}
```



Browse Europeana through its facets

[search.json?](#)
[query=mona+lisa&](#)
[profile=facets](#)

```
▶ "items": [ ... ], // 12 items
▼ "facets": [
  ▼ {
    "name": "LANGUAGE",
    ▶ "fields": [ ... ] // 18 items
  },
  ▼ {
    "name": "TYPE",
    ▼ "fields": [
      ▼ {
        "label": "IMAGE",
        "count": 198
      },
      ▼ {
        "label": "SOUND",
        "count": 71
      },
      ▼ {
        "label": "TEXT",
        "count": 63
      },
      ▼ {
        "label": "VIDEO",
        "count": 11
      }
    ]
  },
  ▼ {
    "name": "YEAR",
    ▶ "fields": [ ... ] // 50 items
  },
]
```



Browse Europeana through its facets

[search.json?](#)
[query=mona+lisa&](#)
[qf=TYPE:IMAGE&](#)
[qf=YEAR:2005&](#)
[profile=facets](#)

```
"totalResults": 9,  
▶ "items": [ ... ], // 9 items  
▼ "facets": [  
  ▼ {  
    "name": "LANGUAGE",  
    ▼ "fields": [  
      ▼ {  
        "label": "de",  
        "count": 9  
      }  
    ]  
  },  
  ▼ {  
    "name": "TYPE",  
    ▶ "fields": [ ... ] // 2 items  
  },  
  ▼ {  
    "name": "YEAR",  
    ▶ "fields": [ ... ] // 32 items  
  },  
  ▶ { ... }, // 2 items  
  ▶ { ... }, // 2 items  
  ▶ { ... }, // 2 items  
  ▶ { ... }, // 2 items  
  ▶ { ... } // 2 items  
]
```



A rich app with thumbnails and images

[record/](#)
[2048419/](#)
[item_OPLRCR](#)
[D7N4KU2NGZ](#)
[IZ56DNUNTKY](#)
[2LVP5.json](#)

```
  "object": {
    ▶ "year": [ ... ], // 1 item
    "type": "IMAGE",
    ▼ "title": [
      "Museum Louvre, Besucher fotografieren vor dem Bild der Mona Lisa"
    ],
    ▼ "aggregations": [
      ▼ {
        "about": "/aggregation/provider/2048419/item_OPLRCRD7N4KU2NGZIZ56DNUNTKY2LVP5",
        ▼ "edmDataProvider": {
          ▼ "def": [
            "Deutsche Fotothek"
          ]
        },
        "edmIsShownBy": "http://fotothek.slub-dresden.de/fotos/df/ge/0005000/df_ge_0005555",
        "edmIsShownAt": "http://www.europeana.eu/api/24659/redirect?
        shownAt=http%3A%2F%2Fwww.deutschefotothek.de%2Fobj71028743.html%3Fbt%3Deuropeanaap
        CRD7N4KU2NGZIZ56DNUNTKY2LVP5&profile=full",
        "edmObject": "http://fotothek.slub-dresden.de/thumbs/df_ge_0005555.jpg",
        ▶ "edmProvider": { ... }, // 1 item
        ▶ "edmRights": { ... }, // 1 item
        "aggregatedCHO": "/item/2048419/item_OPLRCRD7N4KU2NGZIZ56DNUNTKY2LVP5",
        ▶ "webResources": [ ... ], // 1 item
        "edmPreviewNoDistribute": false
      }
    ],
    "about": "/2048419/item_OPLRCRD7N4KU2NGZIZ56DNUNTKY2LVP5",
    ▶ "proxies": [ ... ], // 2 items
    "europeanaCompleteness": 7,
    ▶ "language": [ ... ], // 1 item
    ▶ "places": [ ... ], // 2 items
    ▶ "timespans": [ ... ], // 6 items
    ▶ "concepts": [ ... ], // 3 items
    ▶ "providedCHOs": [ ... ], // 1 item
    ▶ "europeanaAggregation": { ... }, // 7 items
    ▶ "europeanaCollectionName": [ ... ], // 1 item
    ▶ "edmDatasetName": [ ... ], // 1 item
    "timestamp_created_epoch": 1415620865724,
    "timestamp_update_epoch": 1415620865724,
    "timestamp_created": "2014-11-10T12:01:05.724Z",
    "timestamp_update": "2014-11-10T12:01:05.724Z"
  }
}
```

→ Hands-on



Register for an API-key

Register at: <http://labs.europeana.eu>



Friendly JSON-viewer

Chrome extension: [JSON Formatter](#)

Firefox extension: [JSONView](#)



Advanced queries 1

- Construct a search for objects which meet keyword Paris or Brussels
- Ensure that the search response contains the direct URL to the media file (edmlsShownBy)
- Return only records in either the Dutch or French language

[search.json](#)

[?query=paris OR brussels](#)

[&qf=LANGUAGE:fr](#)

[&qf=LANGUAGE:nl](#)

[&profile=rich](#)

[&wskey=MY_KEY](#)



Advanced queries 2

- Construct a search for sounds
- Include only sounds created by Gordon Lindsley
- Only retrieve record 4 to 8

[search.json](#)

[?query=who:Gordon%20Lindsley](#)

[&qf=TYPE:SOUND](#)

[&start=4](#)

[&rows=4](#)

[&wskey=MY_KEY](#)



Query translation in the mix

- Use the query translation API to translate 'brussels' into French
- Use the output to construct a search for Brussels in 2 languages
- Include facets in the search response
- Include only openly licensed re-usable objects

[translateQuery.json](#)
[?languageCodes=fr](#)
[&term=brussels](#)
[&wskey=MY_KEY](#)

[search.json](#)
[?query=brussels%20OR%20bruxelles](#)
[&reusability=open](#)
[&profile=facets](#)
[&wskey=MY_KEY](#)



Media Discovery Toolset

- Give me all objects with extra large images (qf: image_size / extra_large)
- Include only images that are openly licensed and re-usable
- Include only images with a direct link to the media file

search.json

?query=**

&qf=IMAGE_SIZE:extra_large

&reusability=open

&media=true

&wskey=MY_KEY

