

# CULTURAL SITES IN ITALY

Martina Pensalfini, Bianca La Manna

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# CONTEXT

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# CULTURAL SITES IN ITALY IN LOD

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## CONTEXT

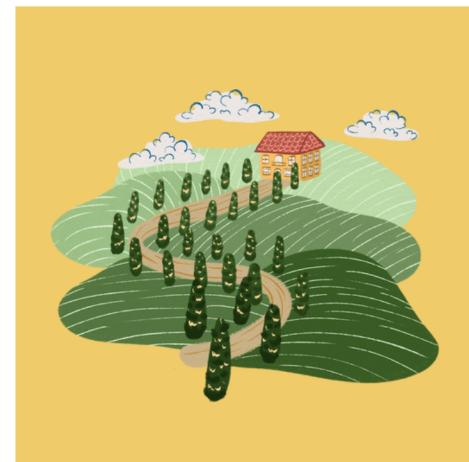
[dati.beniculturali.it](#) is a platform from which the Italian Ministry of Cultures publish cultural data in Linked Open Data (LOD) and allows the user to interrogate through a [sparql endpoint](#).

"Given our dataset, can we find a possible correlation between the sites that hosted cultural events and the ones which are cultural institutes or cultural properties themselves?"

RESEARCH QUESTION

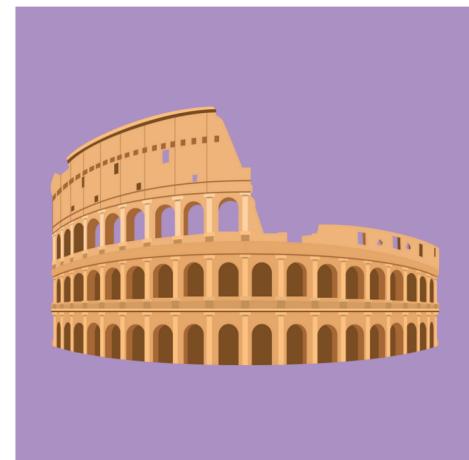
# OUR FIELD OF INTEREST

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## CULTURAL EVENTS

Through cis:CulturalEvent class from the Cultural-ON ontology we can access information about the sites of the cultural events.



## CULTURAL PROPERTIES

Through arco:CulturalProperty class from the Arco ontology we can access information about the sites and institutes of the cultural properties.



CULTURAL SITES IN ITALY

# DATA MANAGEMENT

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# DATA MANAGEMENT



## DATA PREPARATION

We used data coming from:

- data.beniculturali.it
- dbPedia, for enrichment

We integrated geospatial information through geopy.

## DATA ANALYSIS

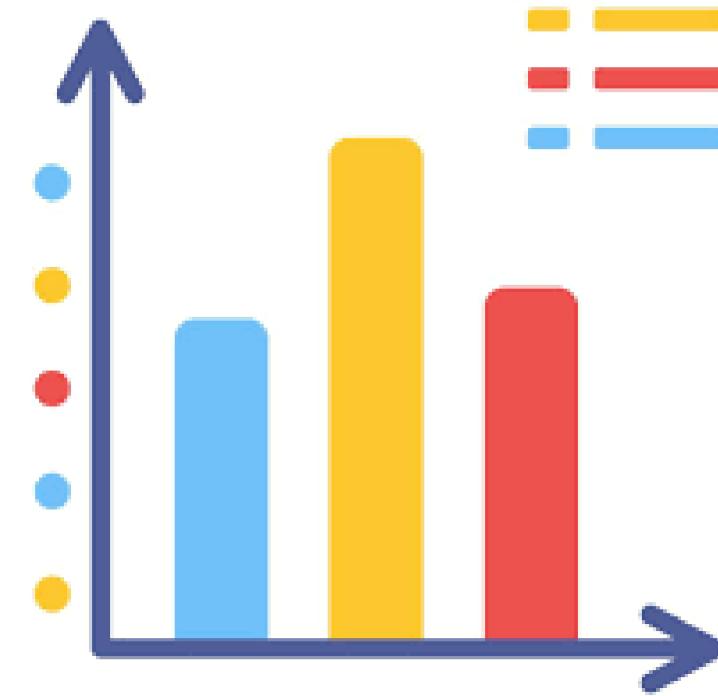
In order to retrieve and analyse our data, we used:

- SPARQL query language
- Python Libraries:
  - bokeh for map visualization
  - rdflib and sparql\_dataframe for data management

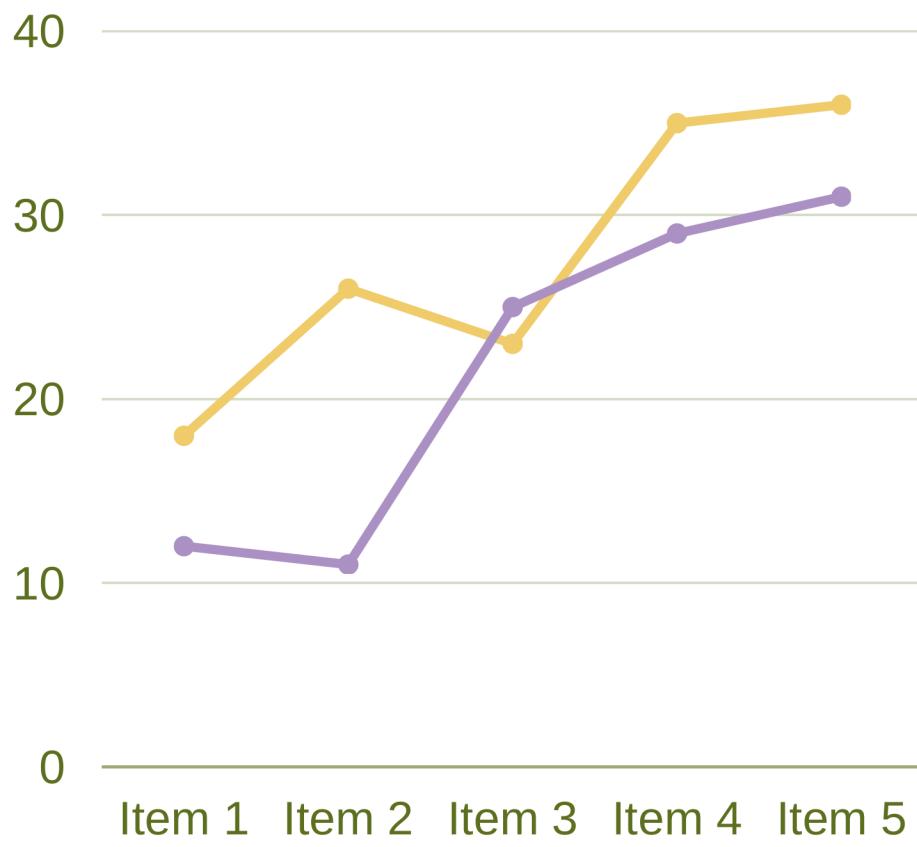
# DATA VISUALIZATION

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# DATA VISUALIZATION



BARCHARTS



LINECHARTS



MAPS

# DATA VISUALIZATION

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## JS LIBRARIES:

- [amCharts](#).
- [Plotly](#).



## BARCHART:

- 1 categorical variable + 1 numeric variable.
- comparison between distributions



## LINECHART:

- good for bivariate analysis.
- emphasize changes in values for one variable for continuous values of a second variable



## MAPS:

- we wanted to better represent geospatial data.

# WEB COMMUNICATION

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## SIMPLE AND CLEAR

The website has a simple interface that gives space to the data.

Is it possible to explore Italian cultural sites in LOD?

dati.beniculturali.it is a project which aims at collecting and making accessible italian cultural data available in linked open data (LOD).

Our project aims at exploring two classes which are accessible through dati.beniculturali.it:

- **Cultural Events**: described through the ontology CIS from Culture-ON
- **Cultural Properties**: described through the ontology Arco.

in order to compare the sites which hosted cultural events with the institutes that host or are themselves cultural properties.

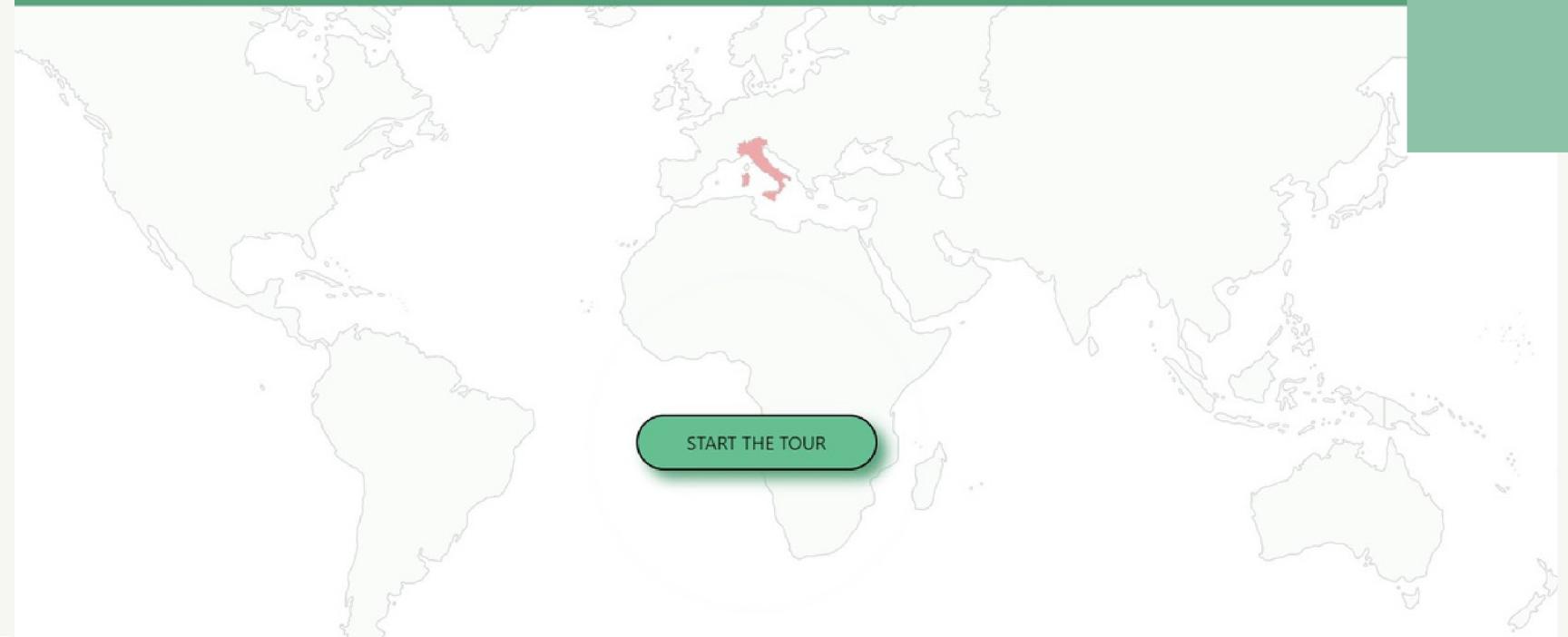
You can see at the side how many subjects have type "cis:CulturalEvent" and how many have the type "arco:CulturalProperty" in our dataset

### The overall numbers

Cultural  
Events  
**1509**

Cultural  
Properties  
**2386**

## Cultural Sites in Italy



## COLOR ASSIGNMENT

Each element has assigned a unique color, in order to have a visual association and an immediate recognition of data.

In order to compare the sites which hosted cultural events and the site

## Cultural Events' cities



Did you notice?

Since more cultural property are hosted in the same site, even if the number

# COMMUNICATION THROUGH MAPS

The **target** of our analysis are people interested in know which is the cultural distribution of sites in Italy.

Those can be public authorities, cultural managers, head of cultural institutes or head of event organizer.

For this reason, a key point of our communication strategy are the **maps**, since they provide an immediate visual understanding of the distribution.

# RESULTS

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## CORRELATION

Observing the distribution in Florence, there seems to be some places in which both cultural events and cultural properties are condensed

## REGIONAL REPRESENTATION

Looking at regional data, it seems that there is not a correlation between the number of cultural events and the number of cultural properties.

## LACK OF REPRESENTATION

Some cultural sites are not represented in the dataset and cultural events are related all to the same time period.

## TIME TRENDS

It seems that from 2020 cultural events have diminished in number, probably due to pandemic. A further analysis could show if there is a significative change in the distribution of cultural events before and after the pandemics