

Reference (Youtube tutorial: <https://www.youtube.com/watch?v=3WTtKalfgnk>)

Tutorial

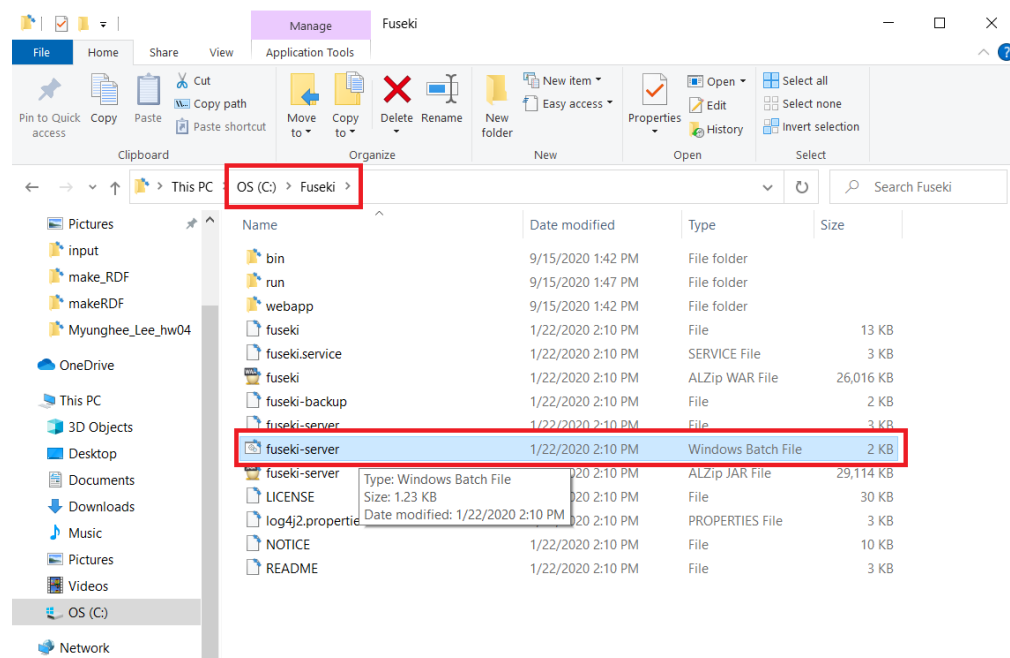
1. Download Apache Jena Fuseki

<https://jena.apache.org/download/index.cgi>

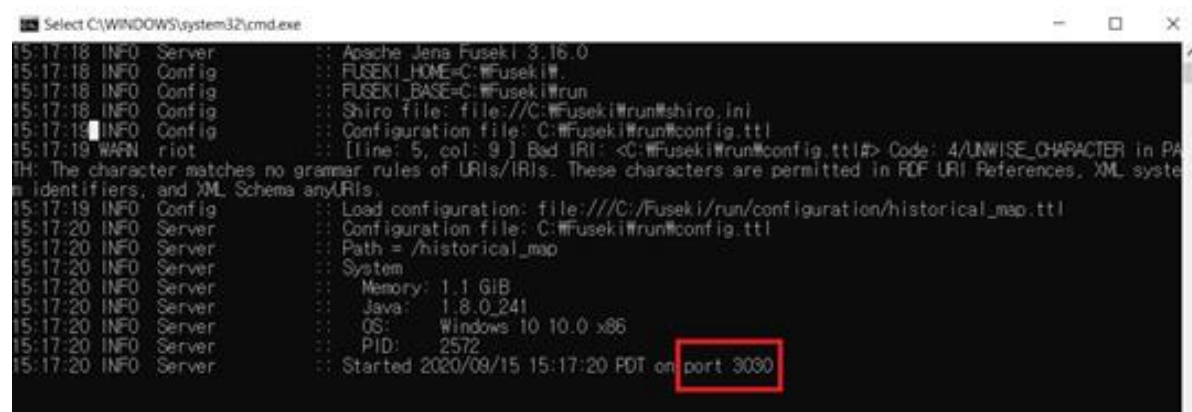
2. Extract the downloaded file

3. Change the name of the folder to "Fuseki"

4. Move "Fuseki" under "C" drive

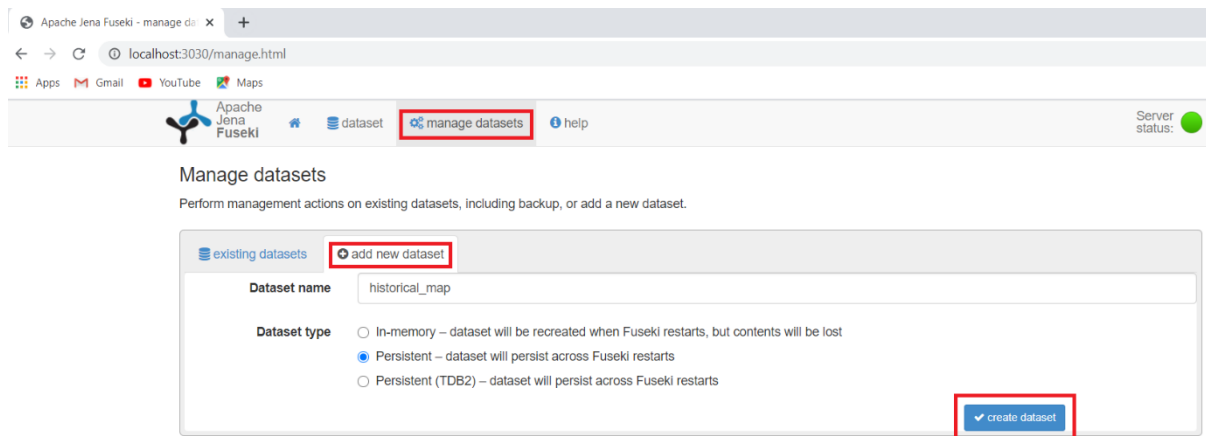


5. Start fuseki-server.bat file (batch file)

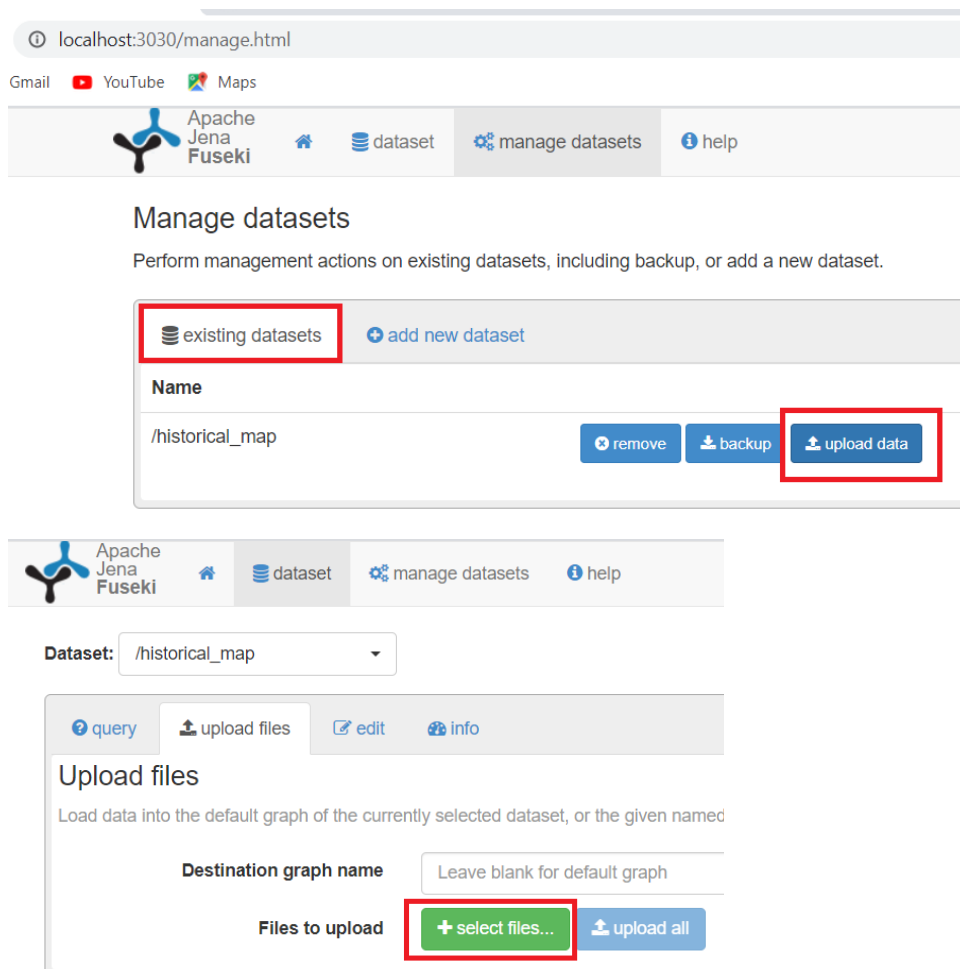


6. Open a web browser and type "localhost:3030"

7. Add a new dataset (manage datasets -> add new dataset)



8. Upload ttl file (existing datasets -> upload data -> select files (green button) -> upload now)



Apache Jena Fuseki

dataset manage datasets help

Dataset: /historical_map

query upload files edit info

Upload files

Load data into the default graph of the currently selected dataset, or the given named graph. You may upload any RDF format, such as Turtle, RDF/

Destination graph name: Leave blank for default graph

Files to upload: + select files... upload all

mapRDF.ttl	814.4kb	upload now	remove
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9. Query

In the query tab, write the query and the execute it by clicking the white arrow in the black box.

Dataset: /historical_map

query upload files edit info

SPARQL query

To try out some SPARQL queries against the selected dataset, enter your query here.

EXAMPLE QUERIES: Selection of triples Selection of classes

PREFIXES: rdf rdfs owl xsd

SPARQL ENDPOINT: /historical_map/sparql

CONTENT TYPE (SELECT): JSON

CONTENT TYPE (GRAPH): Turtle

```

1 PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
2 PREFIX geo: <http://www.opengis.net/ont/geosparql#>
3 PREFIX geoname: <http://linkedgeodata.org/ontology/>
4 PREFIX my_ns: <gs:kg:>
5 PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
6 PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
7 PREFIX schema: <http://schema.org/>
8 PREFIX xml: <http://www.w3.org/XML/1998/namespace>

```

Execute query (white arrow in black box)

Sample queries

```

PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX geo: <http://www.opengis.net/ont/geosparql#>
PREFIX geoname: <http://linkedgeodata.org/ontology/>
PREFIX my_ns: <gs:kg:>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

```

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX schema: <http://schema.org/>
PREFIX xml: <http://www.w3.org/XML/1998/namespace>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rs: <http://spektrum.ctu.cz/ontologies/radio-spectrum#>
```

```
SELECT ?label ?uri
WHERE {
  <gs:kg:101201496.jpgfeature_id10> rdfs:label ?label;
                                   rdfs:seeAlso ?uri .
}
```

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX geo: <http://www.opengis.net/ont/geosparql#>
PREFIX geoname: <http://linkedgeodata.org/ontology/>
PREFIX my_ns: <gs:kg:>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX schema: <http://schema.org/>
PREFIX xml: <http://www.w3.org/XML/1998/namespace>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rs: <http://spektrum.ctu.cz/ontologies/radio-spectrum#>
```

```
SELECT ?map_name ?node ?uri
WHERE {
  ?map_name geo:sfOverlaps ?node .
  ?node rdfs:label "ARGYLE STREET";
        rdfs:seeAlso ?uri.
}
```