# **WMCH** performance tests

Test performance using JavaScript native performance.now() API.

Testing conditions:

- NodeJS server running locally
- remote DB (tunnel localhost -> rattata.synapta.io -> 192.168.128.15 (wikimch))
- Synapta tile server https://tile.synapta.io/

Map rendered with Leaflet (client side rendering).

# 1 Swiss Museums Map

### Real time mode

```
****** MEASURE 1 *********

Retrieving map options took 1011.9049999993877ms

Rendering basemap took 23.615000001882436ms

Retrieving geo data took 118.75499999950989ms

Rendering data on map took 465.645000000022235ms

Finalizing map UI took 462.81000000008999ms
```

```
****** MEASURE 2 *********

Retrieving map options took 972.2199999996519ms

Rendering basemap took 67.15500000063912ms

Retrieving geo data took 6302.339999998367ms

Rendering data on map took 486.64500000086264ms

Finalizing map UI took 515.4150000016671ms
```

### History browse mode

average over 3 measurements

```
Total time for data retreiving - 13429 ms
Total map rendering - 2257 ms
```

# 2 Swiss Railway Stations

### Real time mode

```
****** MEASURE 1 *********

Retrieving map options took 1505.9000000001106ms

Rendering basemap took 53.28000000008615ms

Retrieving geo data took 6863.209999999526ms

Rendering data on map took 517.3299999987648ms

Finalizing map UI took 408.90000000217697ms
```

```
****** MEASURE 2 *************
Retrieving map options took 1668.2499999988067ms
Rendering basemap took 64.340000000081141ms
Retrieving geo data took 53.120000000049011ms
Rendering data on map took 571.58999999956ms
Finalizing map UI took 480.380000000087777ms
```

### History browse mode

```
****** MEASURE 3 *********

Retrieving map options took 890.9999999996217ms

Retrieving geo data took 24044.14000000179ms

Rendering basemap took 35.775000000028522ms

Rendering data on map took 2076.4600000002247ms

Finalizing map UI took 2248.0949999990116ms
```

## 3 Germanophone Museums

#### Real time mode

```
****** MEASURE 1 *********

Retrieving map options took 1106.63500000000966ms

Rendering basemap took 79.17499999894062ms

Retrieving geo data took 26536.019999999553ms

Rendering data on map took 1318.6949999981152ms

Finalizing map UI took 639.31000000022969ms
```

```
****** MEASURE 2 *************
Retrieving map options took 1617.2149999983958ms
Rendering basemap took 46.88499999974738ms
Retrieving geo data took 216.08500000002095ms
Rendering data on map took 1181.3700000020617ms
Finalizing map UI took 640.5099999974482ms
```

```
****** MEASURE 3 *********
Retrieving map options took 1055.8149999997113ms
Rendering basemap took 87.21499999955995ms
Retrieving geo data took 160.72999999960302ms
Rendering data on map took 1386.6799999996147ms
Finalizing map UI took 571.9649999991816ms
```

### History browse mode

Error retrieveing geo data

## 4 Museums CH-DE-IT-FR

### Real time mode

```
****** MEASURE 1 *********
Retrieving map options took 1232.7149999982794ms
Rendering basemap took 47.3700000000228174ms
Retrieving geo data took 49522.45000000039ms
Rendering data on map took 1597.5749999997788ms
Finalizing map UI took 387.07500000236905ms
```

```
****** MEASURE 3 ********

Retrieving map options took 899.810000002617ms

Rendering basemap took 98.88499999942724ms

Retrieving geo data took 404.51499999835505ms

Rendering data on map took 1571.749999999156ms

Finalizing map UI took 424.005000000076136ms
```

### History browse mode

Error retrieveing geo data

### **Note**

- la seconda richiesta è nettamente più veloce della prima (ovviamente cache)
- il tempo rendering resta più o meno costante
- in locale (col tunnel) per le query grosse (3 e 4) in modalità history il server non riesce nemmeno a rispondere. Nella versione online risponde ma non riesco a calcolare i tempi chiaramente. Valutiamo se deployare la versione con il calcolo della performance.
- la versione history non ha i cluster e con mappe grosse (3 e 4) la performance di Leaflet è terribile.