

Another data story

Pierre Zemb

Software Engineer @OVH



https://pierrezemb.fr



Metrics Data Platform

Aurélien Hébert

Software Engineer @CityzenData

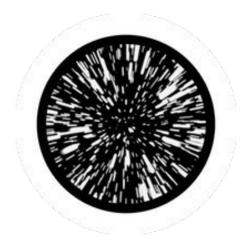




What is Warp 10?





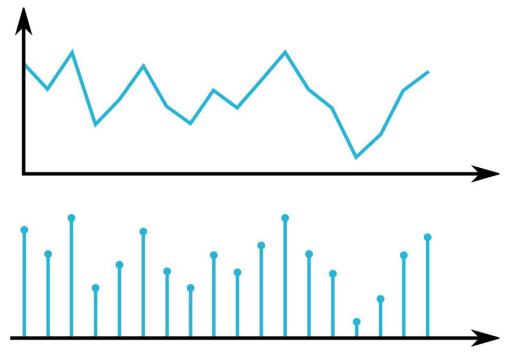


"The Warp 10 Platform is designed to collect, store, manipulate and visualize time series"

http://www.warp10.io/

Time series?

Concept



Sequence of data points over a time interval

Where ? From personal area...



To more chatty devices...

20 000 metrics



per second

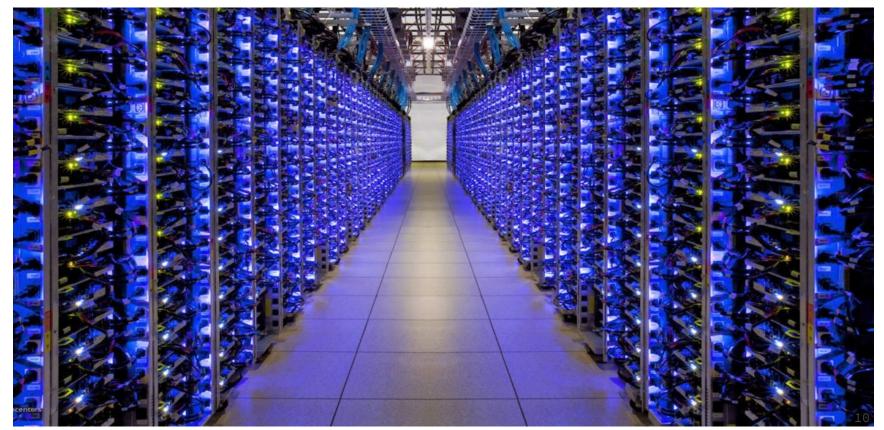


10 000 Hz

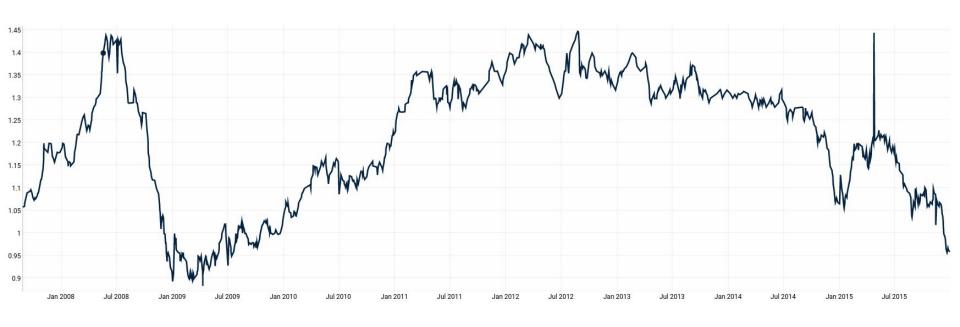




To massive data producer



A series example : Fuel station data





Station U - Id 29490002





Let's not forget: Geographical devices

In our case we will talk about: GPS data collect and car information

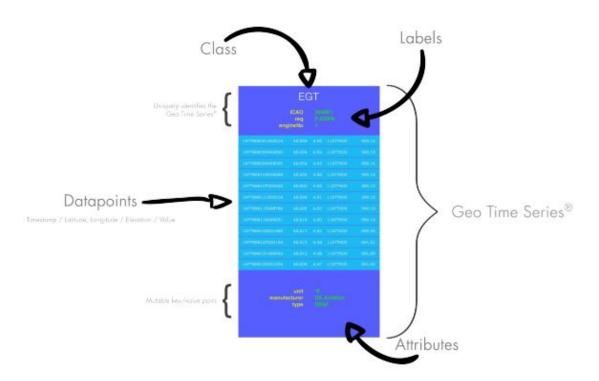


Producing Geo - time series



How does it work?

Data modeling



In resume a GTS is composed of

➤ Metadata

- Class name
- o Labels
- Attributes

> Datapoints

- Timestamp
- o Position (lat, long, elev)
- Value

Attributes: {country: France} Classname: com.cityzendata.smoozi.hr Labels: {id: 34987325, device: zc937} Value Timestamp _atitude ongitude

Warp 10 storage



OR

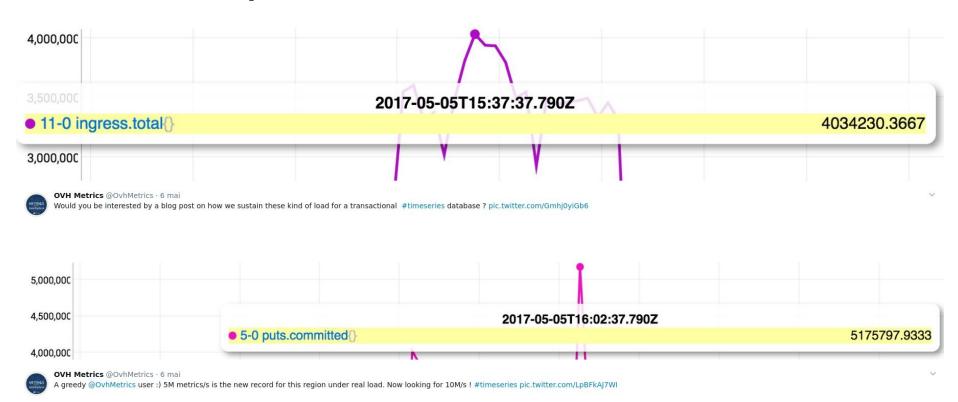


Performance?

Versus other Time series data-base



Real life example



And more : analysis toolbox



Fetching data is only the tip of the iceberg

Why is it needed?

Strong power to





Data Exploratory never ends...



And is natively scalable!



Great, but how to get started?

Warp 10 standalone



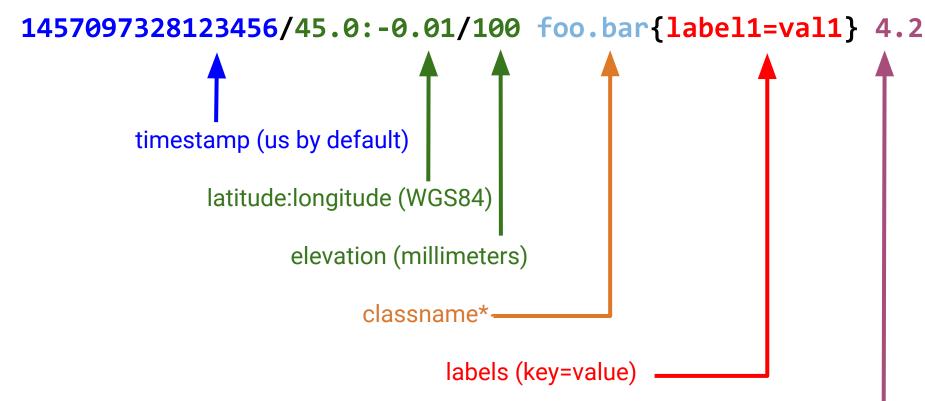
Set-up

- Download latest release from Bintray and untar-it
- sudo ./warp10-standalone.sh bootstrap
- sudo ./warp10-standalone.init start

Or

docker run --volume=/var/warp10:/data -p 8080:8080 -p 8081:8081 -d -i warp10io/warp10:1.2.9

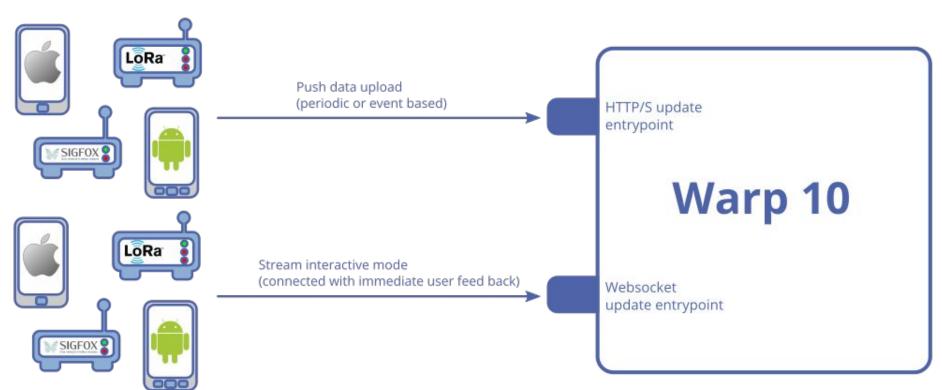
Input Format



* mandatory fields

value* (long, double, boolean or string)

Collect



Fine, but time to see real code?

Demo scripts are on Github



aurrelhebert/warp-15

Don't forget Warp 10 meetup on 24 november!