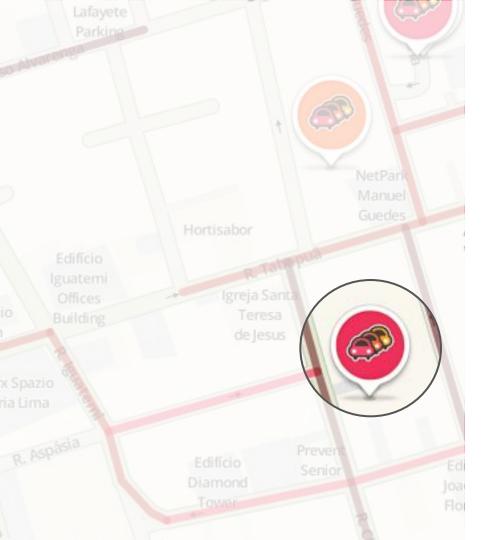
Module 1 - Video 1.3 The Waze data structure



JSON XML

```
{ "items": [
    "{item1": "value1"},
    "{item2": {
        "subitem1": "value2.1",
        "subitem2": 22,
        "subitem3": "value2.3",
    },
    {"item3": 3}
]
```



Map to alerts

Time

2018/09/20, 23h55

Address

R. Claudomiro Amazonas, São Paulo, Brasil

Type

Jam: stand-still traffic

Location

Latitude: -23.585318 **Longitude**: -46.679824

•••

Data to CSV Comma Separated Value

Time 2018/09/20, 23h55 **Address**

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location

Data to CSV Comma Separated Value

Time 2018/09/20, 23h55 **Address**

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location



time	country	city	street	type	subtype	lat	Ing
2018-09-21 23:55:00:000	BR	São Paulo	R. Claudomiro Amazonas	JAM	JAM-STAND- STILL-TRAFFIC	-23.585318	-46.679824

Data to CSV Comma Separated Value

Time 2018/09/20, 23h55

Address

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location

Latitude: -23.585318 Longitude: -46.679824



time	country	city	street	type	subtype	lat	Ing
2018-09-21 23:55:00:000	BR	São Paulo	R. Claudomiro Amazonas	JAM	JAM-STAND- STILL-TRAFFIC	-23.585318	-46.679824

time, country, city, street, type, subtype, lat, lng 2018-09-21 23:55:00:000, BR, São Paulo, R. Claudomiro Amazonas, JAM, JAM-STAND-STILL-TRAFFIC, -23.585318, -46.679824

Data to XML eXtensible Markup Language

Time 2018/09/20, 23h55 **Address**

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location

Data to XML eXtensible Markup Language

Time 2018/09/20, 23h55

Address

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location



```
<title> alert </title>
<pubDate> Thu Sep 20 23:55:00 +0000 2018 
<georss:point> -23.585318 -46.679824 </georss:point>
qmap:type> JAM 
qmap:subtype> JAM STAND STILL TRAFFIC 
day
Av. Claudomiro Amazonas 
/linqmap:street>
city> São Paulo </linqmap:city>
qmap:country> BR </linqmap:country>
```

Data to JSON JavaScript Object Notation

Time 2018/09/20, 23h55

Address

R. Claudomiro Amazonas, São Paulo, Brasil **Type**

Jam: stand-still traffic

Location

Data to JSON JavaScript Object Notation

Time

2018/09/20, 23h55

Address

R. Claudomiro Amazonas, Jam: stand-still traffic São Paulo, Brasil

Type

Location



```
"startTime": "2018-09-20 23:55:00:000",
"endTime": "2018-09-20 23:56:00:000",
"alerts":
     { "country": "BR",
     "city": "São Paulo",
     "street": "R. Claudomiro Amazonas",
     "location": {"x": -46.679824, "y": -23.585318},
     "type": "JAM",
     "subtype": "JAM STAND STILL TRAFFIC"}
```

Full Structure

```
"jams": [ ... ],
   "alerts": [ ... ],
   "irregularities": [ ... ],
   "startTime": "2018-09-20 23:55:00:000",
   "endTime": "2018-09-20 23:56:00:000",
   "startTimeMillis": 1537487700000,
   "endTimeMillis": 1537487760000
```

In the next videos...

```
"jams": [ ... ],
"alerts": [ ... ],
"irregularities": [ ... ],
"startTime": "2018-09-20 23:55:00:000",
"endTime": "2018-09-20 23:56:00:000",
"startTimeMillis": 1537487700000,
"startTimeMillis": 1537487760000
```

