

Attempt at building a transit app in Africa

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Presentation



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- JavaScript, Containers, and FP programming
- Transit and railway enthusiast

Idea



- How does foreign nationals and locals do to travel through the city ?
- How to make public transit more accessible to everyone in the city ?

Image : <https://en.wikipedia.org/wiki/Sousse>

The data



- No open data provided on the web
- Data was really poor
 - few lines available
 - departure and arrival stations
 - Same for timetable

Image: <https://www.flickr.com/photos/68628359@N04/15571864128/>

The data

14:21 2018/01/04

شركة النقل بالساحل

برمجة الخدمة حسب السفرة

سوسة
سوسة الشمالية

17
بوحسينة - الرياض 4

الفترة التجارية الشهرية

إياب		ذهاب		وصول الى	إنتلاق من	السفرة	إلى	بداية من	الحصة
وصول	إنتلاق	وصول	إنتلاق						
08:00	07:20	07:15	06:45	الرياض	سوسة	1	14:05	06:35	
09:30	08:50	08:45	08:05	الرياض	سوسة	2			
11:00	10:20	10:15	09:35	الرياض	سوسة	3			
12:25	11:45	11:40	11:05	الرياض	سوسة	4			
14:05	13:20	13:15	12:30	الرياض	سوسة	5			
15:35	14:55	14:50	14:10	الرياض	سوسة	1	22:40	12:15	مساءية
17:05	16:25	16:20	15:40	الرياض	سوسة	2			
18:35	17:55	17:50	17:10	الرياض	سوسة	3			
20:00	19:25	19:20	18:40	الرياض	سوسة	4			
21:20	20:45	20:40	20:05	الرياض	سوسة	5			
22:40	22:05	22:00	21:30	الرياض	سوسة	6			

The data

- Map stations for each line
 - Identified a human SPoF.
 - Be careful, you might fooled.
 - Had fun naming station.
- Estimate the estimation
 - Estimate the bus departure from each stations
- Turn a spreadsheet to a manual GTFS archive



Integration

- Build a transit SPA based on GMaps
- Facebook Messenger chatbot
 - require user location in order to detect closet departure in nearby station
 - Usage of [geo-redis](#) to identify nearby stations

Conclusion

- Why did this attempt failed ?
 - Implemented lines no that attractive.
 - No communication / Marketing with the community.
 - approximate timetable per station

- Next Steps ?
 - Update and upload GTFS archive to OSM
 - ...

Thank you