

MAX-PLANCK-INSTITUT FÜR DEMOGRAFISCHE FORSCHUNG

MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH





FOR DEMOGRAPHIC

RESEARCH

Structure

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Introduction to Facebook Data

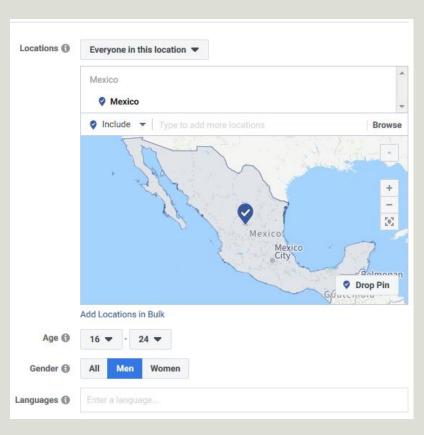
- The Intuition
- Facebook and its API
- Querying and Retrieving Data
- Using R for Automatizing
- More parameters :

Demographics, Interests and Behaviors





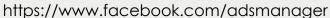
The Intuition















Facebook and its API

Facebook Application Programming Interface (API)

An API is a set of URLs that return data responses

"The [Facebook] Marketing APIs offer programmatic access to manage your Facebook ad campaigns, Custom Audiences, and reports."

Source: https://developers.facebook.com/docs/apis-and-sdks





Facebook and its API

For using the Facebook Advertising platform you need:

- A Facebook account [So, log in]
- Set up a Facebook Marketing App and Obtain its Token and Creation Act. [Check First_Step.pdf]



To read the Facebook policies:

https://developers.facebook.com/policy/

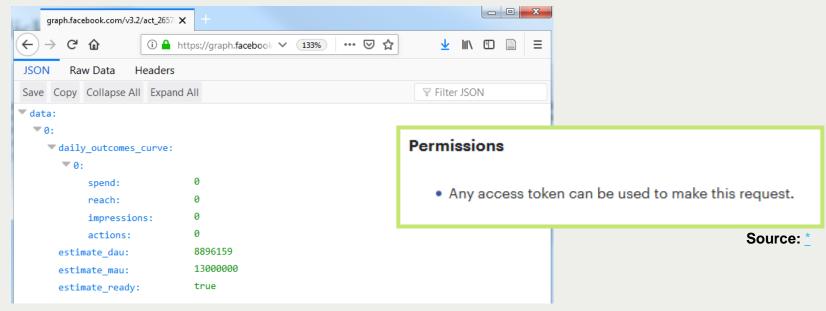




Data retrieved in **Firefox** browser

Querying and Retrieving

query="https://graph.facebook.com/v3.2/act_<<creation_act>>/delivery_estimate?access_token=<<TOK EN>>&include_headers=false&method=get&pretty=0&suppress_http_code=1&method=get&optimization_g oal=REACH&pretty=0&suppress_http_code=1&targeting_spec={"geo_locations":{"countries":["MX"]},"gender s":[1],"age_min":16, "age_max":24}"



More info:



https://developers.facebook.com/docs/graph-api/overview

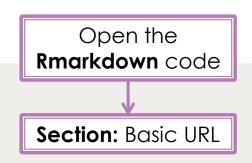
MPIDR

* https://developers.facebook.com/docs/graph-api/reference/v3.3/url



Now replace

- <<creation_act>>
- <<TOKEN>>



With your own information and paste the query in your browser.

https://graph.facebook.com/v3.2/act_<<creation_act>>/delivery_estimate?acc ess_token=<<TOKEN>>&include_headers=false&method=get&pretty=0&supp ress_http_code=1&method=get&optimization_goal=REACH&pretty=0&suppre ss_http_code=1&targeting_spec={"geo_locations":{"countries":["MX"]}," genders":[1] ,"age_min":16, "age_max":24}



MPIDR



Targeting Specs are ad set attributes that define who sees an ad. source: *

Parameters:

All the parameters inside **targeting_spec** must follow a **JSON** format

targeting_spec={}

- "geo_locations":{"countries":["MX"]}
- "genders":[1]
- "age_min":16
- "age_max":24
- Etc...

More information about the parameters:

* https://developers.facebook.com/docs/marketing-api/targeting-specs https://developers.facebook.com/docs/marketing-api/buying-api/targeting

More information about JSON format:

https://www.w3schools.com/js/js_json_intro.asp







Open the **Markdown** code

Using R for Automatizing

Total Population broken down by age, gender and country

For automatizing the queries one option is to use **R**:

```
library(tidyverse)
library(jsonlite)

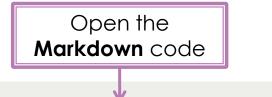
test<-"query"

url(test)%>%fromJSON
```

```
> url(test)%>%fromJSON
$`data`
  daily_outcomes_curve estimate_dau estimate_mau estimate_ready
1     0, 0, 0, 0  8896159  13000000  TRUE
```







More parameters:

...certain characteristics...

Demographics, Interests and Behaviors

https://www.facebook.com/adsmanager

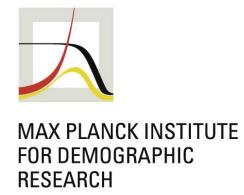




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Comments or **Questions?**

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