

Hands on session

Levente Juhász (University of Florida, USA)

Adam Rousell (Heidelberg University, DE)

Jamal Jokar (Aalborg University Copenhagen, DK)

Objective

The purpose of the hands-on session is

- a) to cover the basics of interacting with APIs,
- b) to extract summary statistics from the datasets acquired.

Before the Workshop

- **Installing software requirements**
- **Python 2.7**
- **QGIS (Image viewer plugin)**
- **R Statistics**
- **PostgreSQL with PostGIS**
- **Python modules (Tweepy, pyshp, psycopg2, flickrapi)**
- **R Packages ('ggplot2', 'plyr', 'ggmap', 'wordcloud')**
- **Registering API Keys**

Tutorial

Module 1

Interacting with APIs (Twitter, Instagram, Mapillary, Flickr)

Module 2

Exporting data from APIs

Module 3

Extracting summary statistics in R environment

Coffee break



Case study 1: **Extracting POIs from different sources**

Case study 2: **Accessibility assessment of popular places**

Some hints

- Every step is documented in the github page.
- Feel free to ask questions, if any.
- Sample datasets are provided in the 'examples' folder, in case you face difficulties and temporal limitation to do every thing today here.
- We'll continue the workshop after the hands-on session with the open floor discussion starting at about 17:00.
- Get started!!!