Playing with a REST Service
Exercise 1: **Music provider Deezer**

As we studied in class Representational State Transfer (REST) is a software architecture style consisting of guidelines and best practices for creating scalable web services. REST is a coordinated set of constraints applied to the design of components in a distributed hypermedia system that can lead to a more performant and maintainable architecture. RESTful systems communicate over the Hypertext Transfer Protocol with the same HTTP verbs (GET, POST, PUT, DELETE, etc.) used by web browsers to retrieve web pages and send data to remote servers.

As part of the final project you will user a RESTful data service that will provide music and associated meta-data exported by Deezer (http://developers.deezer.com/api/explorer). In this exercise you will use the API explorer of the service to see the type of requests you can execute, the data structures it provides and also how to deal with access control token for executing some operations.

REQUIREMENTS

- Browser

OBJECTIVES

- Use a REST service and interact with it through its API explorer
- Interpret JSON results
- Play with access token

TO DO

1. What are the response-formats used by Deezer?
2. How many requests can an application issue and in which interval of time?
Go to the API Explorer:
3. Describe the JSON object structure used by Deezer for representing an album
4. Give three examples of types of music ("genre") provided by Deezer and precise their ID.
5. Retrieve the albums available in Deezer of the group Radio Head.
6. What authentication protocol does Deezer use? Explain the principle of the protocol. Which information is protected by this protocol?