

# PLIN064 Úvod do *digital humanities*

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Application Programming Interfaces

Practical Hands On: Text Analysis

# Application Programming Interfaces

a way how (remote) machines can communicate together

Machine1 **request** a service at Machine2's API with some **data**.

Machine2 calls internally a service with Machine1's data.

Machine2 gets the output from the service.

Machine2 sends a **response** to Machine1.

# Application Programming Interfaces

API is not only request, data, and response.

Technically, the machines have to establish a communication language (XML, JSON, Protocolbuffer, ...).

API users have to be aware of:

- terms and conditions (free to use, paid service)
- access rights (API key, other authentication means)
- limits (data size, wait between two requests, request per time limit)
- other policies (pay as you go, pay per month, free up to some limit, consent to data sharing)

## API repositories

Many services, try to look for “list of apis” or “api marketplace”:

- `<https://any-api.com>`
- `<https://apilist.fun>`
- `<https://rapidapi.com>`
- and many more

For language resources, CLARIN provides some APIs. We come to this later.

