

## Online tools for planetary sciences



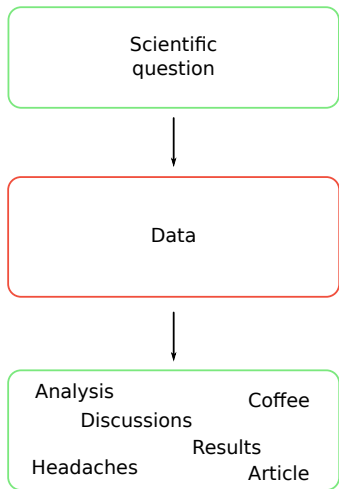
**rocks**

**B. Carry<sup>1</sup> & M. Mahlke<sup>2</sup>**

<sup>1</sup>Lagrange, Observatoire de la Côte d'Azur, Nice

<sup>1</sup>Institut d'Astrophysique Spatiale, Orsay

# Re: A typical research project



## Repetitive (and tedious) tasks!

- **Planning and conduction of observations**
  - Observations already exist?
  - Target/sample available? visible?
- **Gathering ancillary data for the analysis**
  - Complementary information diameter, fall/find, ...
  - Context for research another population
- **Repetitive low-level analysis**
  - Spectral classification
  - Cross-matches & merges

## Online resources in a nutshell

- A suite of pages, libraries, and services
  - **Providers:** data archives, catalogs, online codes
  - **Clients:** GUI, CLI, analysis tools
  - Check IVOA: <http://ivoa.net/astronomers/applications.html>

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  - Common interface I/O: VOTable, json, Protocols: TAP, cone-search
  - Registries → phone book
  - Homogeneisation of interface in APIs and in python modules

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- It is **not** a master software
- Resources are made **by** us, and **for** us
  - Powerful libraries and tools
  - Good practice to release data/codes Consider CDS at the very least