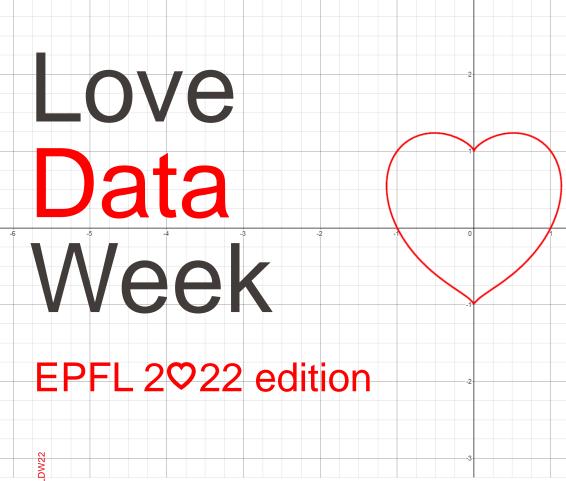
## **EPFL**

Bibliothèque





go.epfl.ch/quiz

Tue. Feb.15 | 11:30-12:00

Webinar "Discover the new EPFL Data Management Plan template"

Wed. Feb.16 | 11:30-12:00

Webinar "Data Storage vs. Backup vs. Archive: EPFL services"

Thu. Feb. 17 | 11:00-11:45

Online training "Which platforms to publish my research data/code?"

go.epfl.ch/ldw22

F. Varrato



## **Today**

All − Speed-dating ©

**Brian** – thot-data

Francesco – Next steps

- We don't see the **chat**

Unmute anytime you want to speak

Switch-on your camera

Feel free to eat & drink ;)

Limit distractions, please



No recording



## go.epfl.ch/datachampions

Local advocates for good data practices



**Interdisciplinary** community



**Both researchers** & staff



**Advise** the research community



Promote good data management



Advocate for the FAIR data principles



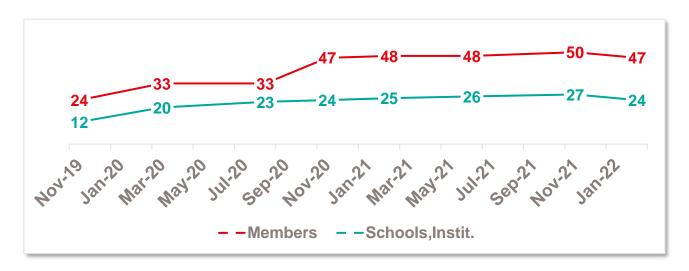
- 8TH MEETING

**EPFL DATA CHAMPIONS** 

## **EPFL DCs**

### **Some numbers**

### go.epfl.ch/datachampions



- 4 Head / Prof / Teacher
- **13** Doctoral student / assistant
- **16** Scientist / Postdoc / Lecturer
- 1 Student
- 13 Technician / Staff / Admin

- 8 main general meetings
- **7** DCbreaks
- **5** DCs in **3** training courses
- A couple of Coffees/Biers
- DC webpage ~1k unique visits / year



Channels: LinkedIn, GitHub, Slack, DCdrive, email group

EPFL DATA CHAMPIONS - 8TH MEETING

- Each 3', all participants are assigned to random rooms, in couples!
- Same couplings might happen (probability ... odds ... fate? ②)
- Make "embarrassing" questions or comments on data/code
- At the end, all participants go back to the main room...

... and you'll see



3 min









reshuffle

## **Speed dating**

**Rules & Go** 

- Each 3', all participants are assigned to random rooms, in couples!
- Same couplings might happen (probability ... odds ... fate? ②)
- Make "embarrassing" questions or comments on data/code
- At the end, all participants go back to the main room...

... and vote!

**POLL** 

Who is my Data Champion?

F. Varrato

## Talk + Q&A

~30 min

brian.carlsen@epfl.ch



PhD student in Physics

PhD assistant
@ LSPM laboratory

Photomolecular Science



thot-data.com



Data mgmt. & analysis tool



## Wrap-up Next steps

- Thanks to Brian Irving and all of you!
- Complete your <u>affiliation info</u>
- Linkedin / Github / Slack / group email
- Next dates
  - 16.03 DCBrake hopefully in-person! ☺
  - 13.04 Coffee/Bier in-person! ...
  - 17.05 DCBrake
  - 13.06 General Meeting

DCdrive → Organiz. → 2022 themes





#### What

#### wnat

### Senior Scientist





### Nicolas Argento

Giovanna Ambrosini



#### Team Leader

ELN/LIMS services manager

IT/Life sciences communication
 IT services management

Manos Barmpounakis



#### Postdoctoral Researcher

• Data in Transportation

Data science

. Intelligent Transportation Systems

### rell Benzi



### Scientist

Data visualization
 Data mining

Software engineering

### Luc Sébastian Bondaz



#### **Doctoral Assistant**

Business Analytics

Machine learning

Chemical Process simulation

#### Maroun Bou Sleiman



Philipp Bucher

### Scientist

Bioinformatics
 Genetics

### Omics

### Group Leader

Genomics

Bioinformatics

Epigenetics

### Olivier Burri



#### Engineer

Light Microscopy

Image Analysis

### Deep Learning



#### Data Scientist

Urban data
 Machine Learning

EPFL LinkedIn Twitter

Where

**EPFL** 

LinkedIn

ORCID

<u>GitHub</u>

**EPFL** 

LinkedIn

ORCID

**EPFL** 

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Twitter

ORCID

**EPFL** 

LinkedIn

Twitter

**ORCID** 

GitHub

**EPFL** 

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LinkedIn

ORCID

Renku

**EPFL** 

LinkedIn

ORCID

**EPFL** 

LinkedIn

Twitter

ORCID

GitHub

ORCID

LinkedIn

## **EPFL**

Bibliothèque



 École polytechnique fédérale de Lausanne

■ Bibliothèque

## Thot

Data Management and Analysis



## Framework

Wraps existing projects



## Data Mgmt

Automatically organize data



## Automated Analysis

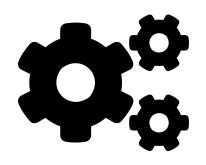
Automatically integrate new data



Principles

## Principles

## Principles



Modular Analysis

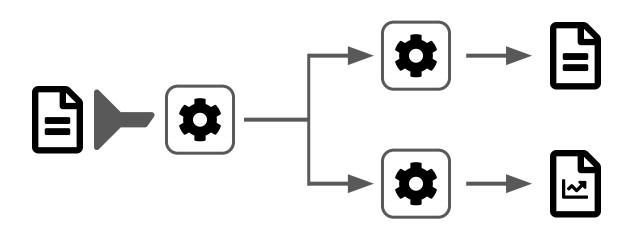


Data Integrity

## Modular Analysis



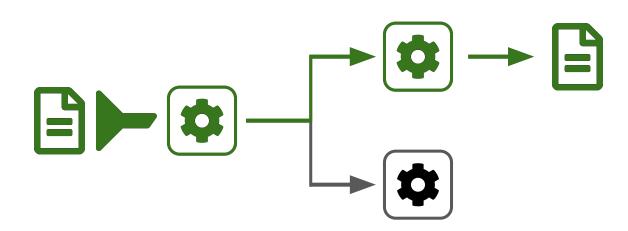
Scripts and data are seperated



## Data Integrity



Data is immutable



Data management and analysis framework allowing modular analysis and ensuring data integrity.

# Let's get our hands dirty

## Congratulations!

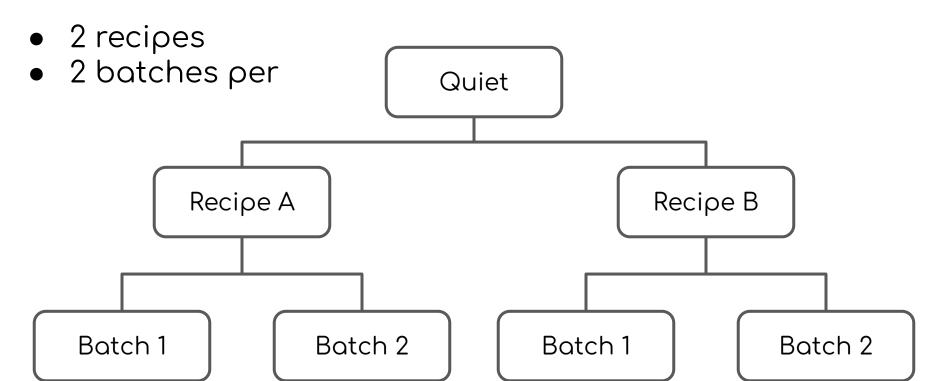


### Demo

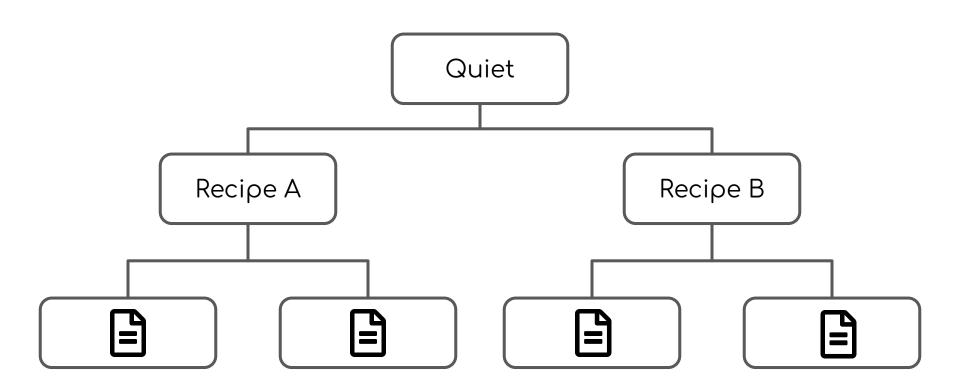
- 2 recipes: A + B
- 2 batches per recipe
- Noise measurements already taken



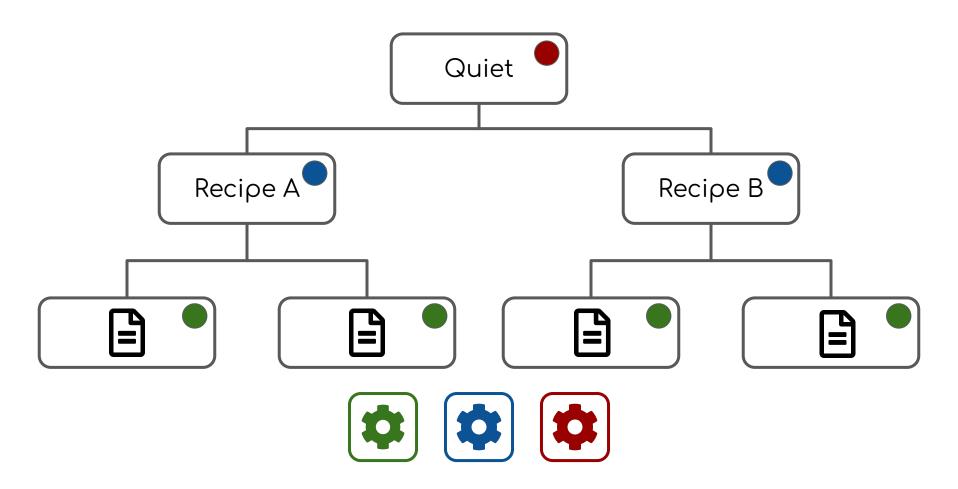
## Structure Project

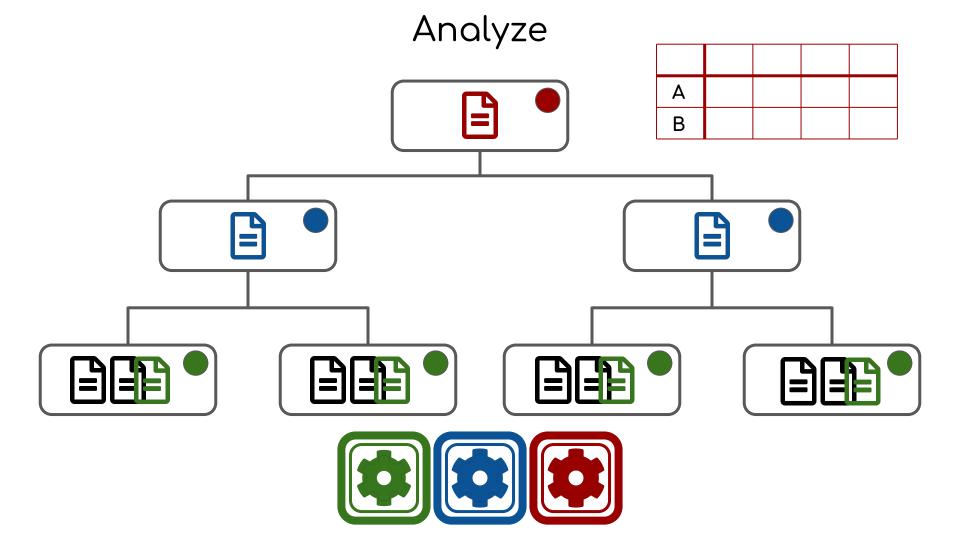


## Add Data



## Assign Scripts

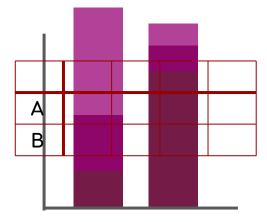


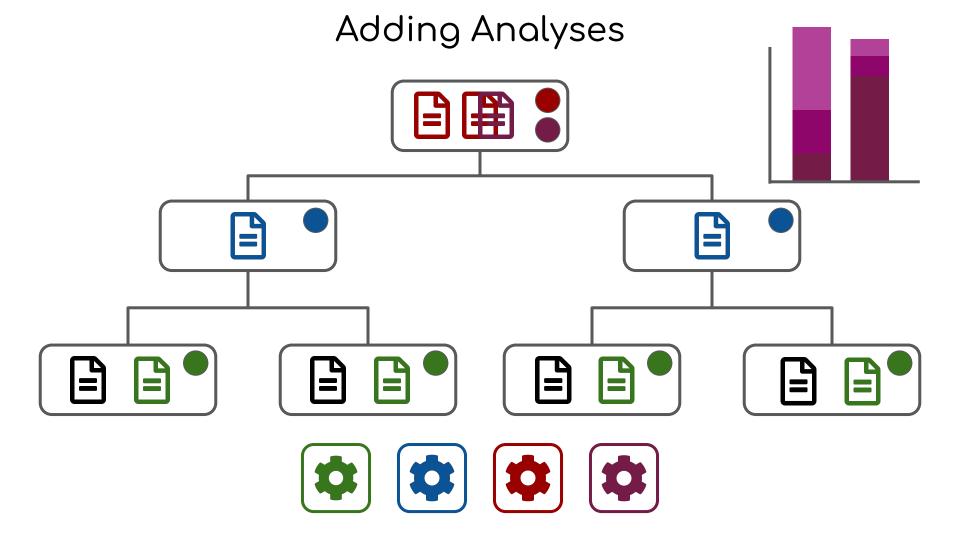


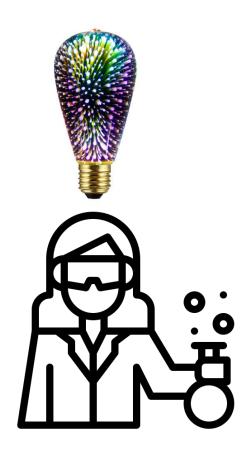


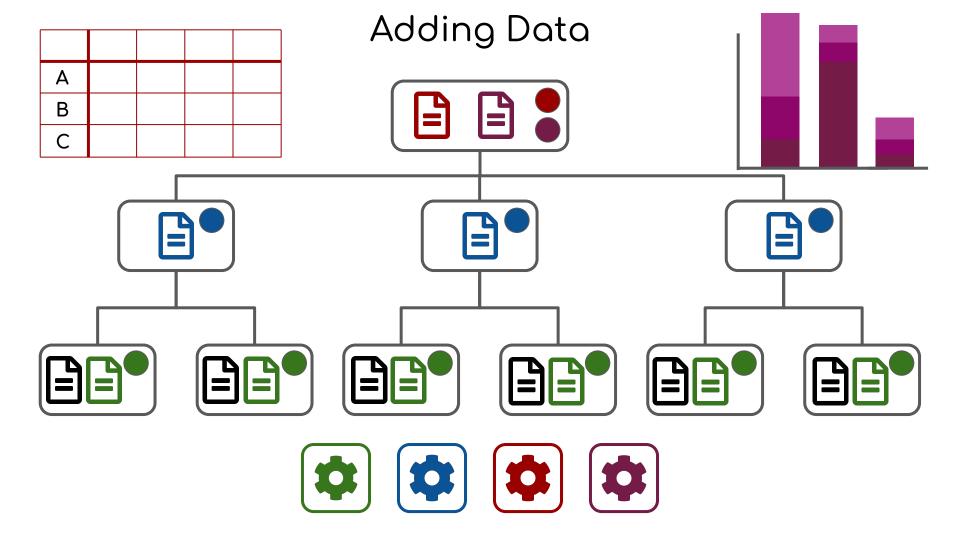


A









## How to use Thot

1. 🚓 Build project

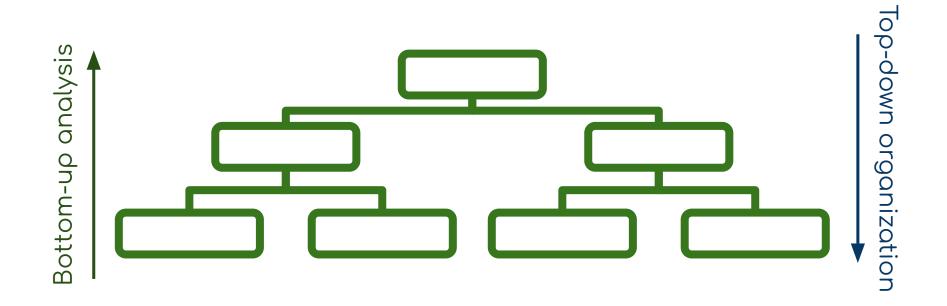
- 2. Add data
- 3. Assign scripts

## Analyze!

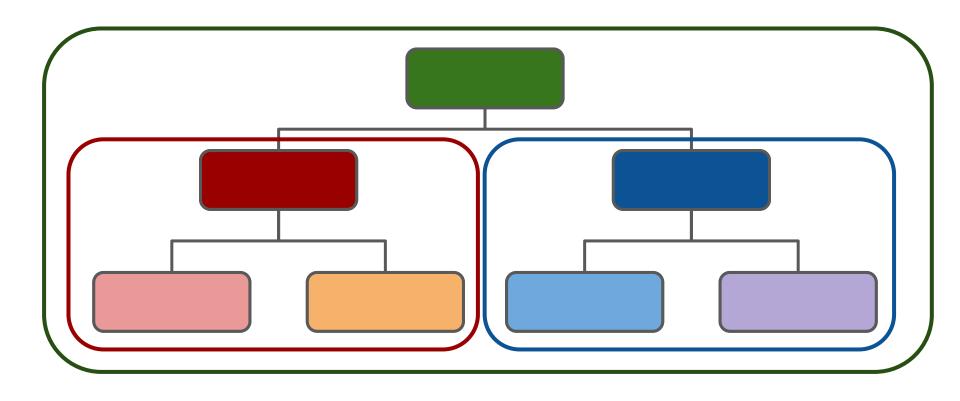
Add new data or analysis any time

## thot-data.com

### Structure



## Structured Database



### Additional Features









### **Future Features**









Cloud storage + compute



