

Welcome to Py4SHS

Day 1

Sophie Robert-Hayek

University of Lorraine

August 23, 2024

About the summer school

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Organized by:

- Sophie Robert-Hayek (Ecritures/MSH)
- Frédérique Rey (Ecritures)



UNIVERSITÉ
DE LORRAINE



Funded by the BENTO project (LUE project)

Speakers

4 different speakers:

- Sophie Robert-Hayek, post-doctoral researcher in digital humanities @ University of Lorraine, +33 6 09 64 69 81;
- Céline Lemarinier, team leader in Data Science @ Eviden
- Mathieu Pister, data on Cloud consultant @ Neoxia.

Requirements

- Your own laptop for the hands-on lessons;
- The ability to take notes for the theoretical sessions.

Practicalities

Accessing the material: All the content presented is available on Github at <https://github.com/py4SHS>.
(and will remain so for as long as possible !)

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Feedback survey: At the end of the week, please fill out the online survey regarding your experience with us this week.

Planning

Daily timetable

Everyday, the schedule will be roughly:

- Welcome coffee @ 9 AM
- 9:30 AM - 12:30 AM: 3 hours of theoretical lectures
- 2:00 PM - 5:30 PM: 3 hours of hands-on practical implementation of the theoretical lectures on your computer.

Week planning: Day 1

- **10 AM-11 AM:** Introduction to digital humanities (S. RH)
- **11:15 AM-12:30 AM:** Introduction to Python and programming basics (C. L);
- **2:00 PM-5:30 AM:** Setting up your Python environment and programming basics.

If you have had trouble installing Python, we will use the lunch break to troubleshoot you :-).

Week planning: Day 2

- **9:30 AM-12:30 AM:** Introduction to Data Manipulation and the PyData ecosystem (C. L.)
- **2:00 PM-5:30 PM:** Data analysis of word frequency in Shakespeare's Romeo and Juliet (C. L.).

Week planning: Day 3

- **9:30 AM-12:30 AM:** Introduction to Machine Learning and Natural Language Processing (NLP) (S. RH)
- **2:00 PM-5:30 PM:** Using Python and NLP tools to analyze vocabulary usage of Shakespeare plays (S. RH).

6:00-6:30 PM: Presentation of Romain Pierronnet on Open-Source software at the University of Lorraine.

Week planning: Day 4

- **9:30 AM-12:30 AM:** Introduction to Deep Learning and Optical Character Recognition (S. RH);
- **2:00 PM-5:30 PM:** Using Tesseract to numerize manuscript folios (M. P.).

5:45 PM - 7:00 PM: Mini-consulting sessions: Mathieu and I will be available for mini consulting sessions (software architecture and data engineering/analysis) on your project.

Evening: Gala night @ *le Theatris* (if specific diet restriction, please mention it to me !).

Week planning: Day 5

- **9 AM-12:30 AM:** Introduction to statistical testing;
- **1:30 PM-3:00 PM:** Application of statistical testing for authorship of Colossian whenever compared to.

Feedback from audience

Feedback from audience

Feedback from audience

Can you please tell me:

Feedback from audience

Feedback from audience

Can you please tell me:

- Your name and your university :)
- What is your computer science background ?
- Are you running on Unix (Linux / MacOS) or Windows ?

Questions

Questions

Any questions regarding this week ?

The organizers remain available for any inquiry.

Enjoy !