Usability & User Experience Design (UUXD)

- ***Professor:*** Fabio Vitali
  Department of Computer Science (DISI)
- ***Period:*** February – May 2026

- ***Learning Outcomes***: *Ability to design, implement and evaluate* software systems in terms of *practicality, experience, affection, meaning and value* that they may have on the target audience. Characteristics such as *ease of use, usefulness and efficiency* are fundamental for the positive evaluation of the user experience of the system.
  A seminar specifically for AI students is being held, about explanations and explainability in complex systems and Artificial Intelligence ystems.

Usability & User Experience Design (UUXD)
Project Work in User Experience Design

You are in the collected group of three (3) different classes of three (3) different master courses:

- UUX is an elective discipline of the I year Master Course in Computer Science (Laurea Magistrale in Informatica) (School of Science)
  - 36 hours over 10 weeks
- UUX is an elective discipline of the II year Master Course in Digital Humanities and Digital Knowledge (School of Literature)
  - 36 hours over 10 weeks
- UUX is an elective discipline of the II year Master Course in Artificial Intelligence (School of Engineering)
  - 44 hours over 12 weeks

Content of the course

- Human Computer Interaction
  - Human Beings:
    - Physical characteristics
    - Psychological characteristics
  - Computer Interaction and dialog styles

- Usability and Design
    - Design approaches
      - System-oriented design
      - User-oriented design
      - Goal-oriented design
    - User Experience Design

Content of the course

What will I be able to do at the end of the course?

- You will be able to plan the design of the User Experience and Usability of a complex system, including Artificial Intelligence Systems.
- You will be able to identify and characterize users, tasks and contexts of use of such systems, and establish metrics for the evaluation of their *Quality in Use*.
- You will be able to carry out inspection and evaluation tasks of your designs, and verify whether and how much they match the expected target metrics.
- You will be able to plan the design of the explanation part of a complex system, , including Artificial Intelligence Systems, so as to match existing legal, ethical and commercial requirements of such systems.

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Thank you!