Programming Paradigms and Languages
Teachers

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- Meets students
  - Monday 15-17
Training Goals

- To present and to compare different programming paradigms
- To present programming languages for a specific context: the Web
Program

- Programming paradigms
  - General concepts and imperative paradigm
  - Functional paradigm
  - Examples of languages
    - LISP
    - Java 8
  - Logic paradigm and Prolog

- Web programming languages
  - Client-side and server-side technologies
  - Client-side: AJAX and JavaScript
  - Server-side: JEE
  - Frameworks
Caveat

- This course will propose a landscape of the programming paradigms and languages
  - We will not go into details of a specific language
- This course will show the practical aspects of the programming paradigms and languages
  - We will not study the theoretical aspects
Exam

- 6 CFU

Project
- Single or group
- Development using one or more studied language
- See the course web site for more information

Presentation and discussion of the project
- Report
- Project execution

Oral questions
Material

- Course site:
Reference texts

- Teachers’ slides
  - Thanks to prof. Enrico Denti of University of Bologna and to prof. Riccardo Lancellotti of University of Modena and Reggio Emilia

- Books:
  - Maurizio Gabbrielli, Simone Martini, Linguaggi di programmazione - Principi e paradigmi, mcgraw-hill
  - Raoul-Gabriel Urma, Mario Fusco, and Alan Mycroft, Java 8 in Action, Manning

- Online
  - A lot of material