Introduction to LINFO2132

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Goals

- What you will learn:
  - How compilers work
  - Theory behind source code analysis, processing, and translation
  - Implementing a compiler for an imperative programming language
- What you will need:
  - Basic knowledge in algorithms and data structures
  - Basic knowledge of computer architectures (what is a CPU?)
  - Programming in Java

Organization

- Weekly lectures (sometimes as videos to watch at home)
- Lab sessions with practical exercises
- Material (slides, instructions,...): on Teams and/or Moodle
- Evaluation:
  - Project: 60% of course grade
  - Written exam on theory and exercises: 40% of course grade
  - Details: see https://uclouvain.be/cours-2022-linfo2132
- Project:
  - Content: Implementing a compiler in Java for a simple imperative language
  - Done in groups
  - Divided into several phases, with deadlines spread throughout the quadrimester