

Deep Learning

Spring 2025

Prof. Gilles Louppe
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Us

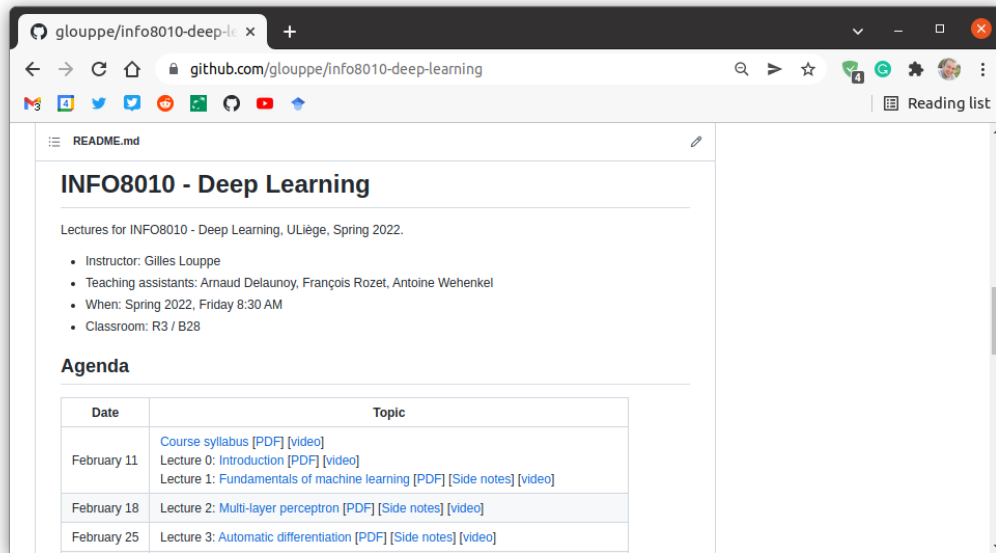
- Instructor: Gilles Louppe (g.louppe@uliege.be)
- Projects and guidance:
 - François Rozet
 - Yann Claes
 - Victor Dachet



Course hub

All important information about the course is maintained on the course hub at github.com/glouppe/info8010-deep-learning:

- Schedule
- Slides and materials
- Homeworks and project

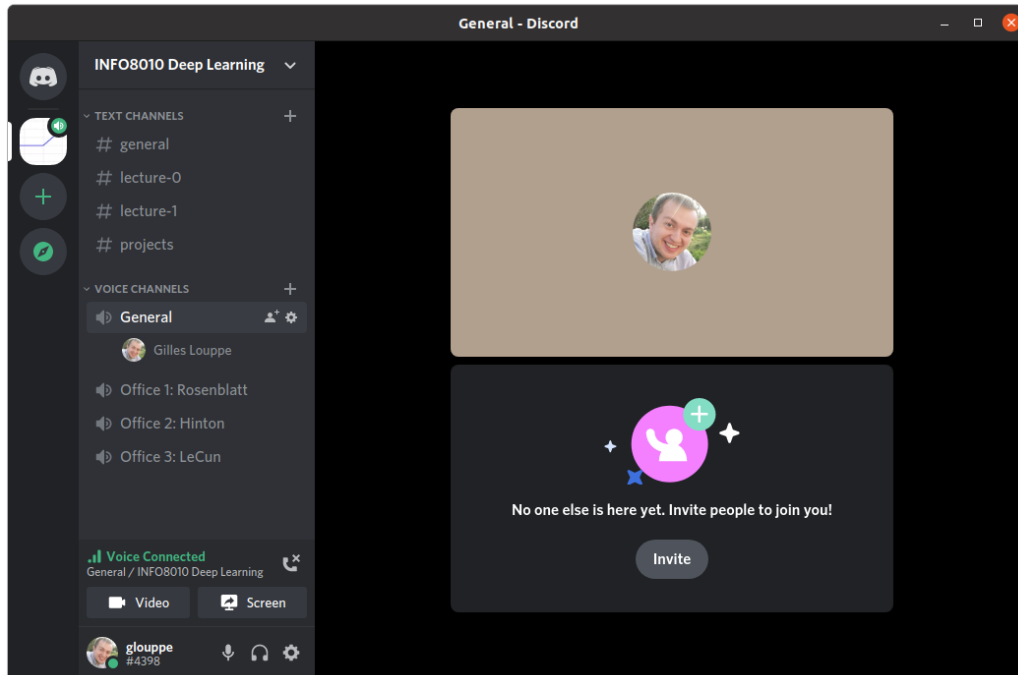


The screenshot shows a web browser displaying the GitHub repository page for 'glouppe/info8010-deep-learning'. The page title is 'INFO8010 - Deep Learning'. Below the title, it states 'Lectures for INFO8010 - Deep Learning, ULiège, Spring 2022.' and lists the instructor (Gilles Louppe) and teaching assistants (Arnaud Delaunoy, François Rozet, Antoine Wehenkel). It also provides the course schedule (Spring 2022, Friday 8:30 AM) and classroom (R3 / B28). An 'Agenda' section follows, containing a table with columns for 'Date' and 'Topic'. The table lists three lectures: Lecture 0 (Introduction) on February 11, Lecture 1 (Fundamentals of machine learning) on February 18, and Lecture 2 (Multi-layer perceptron) on February 18. Each lecture entry includes links to PDFs and videos. The table also lists Lecture 3 (Automatic differentiation) on February 25.

Date	Topic
February 11	Course syllabus [PDF] [video] Lecture 0: Introduction [PDF] [video] Lecture 1: Fundamentals of machine learning [PDF] [Side notes] [video]
February 18	Lecture 2: Multi-layer perceptron [PDF] [Side notes] [video]
February 25	Lecture 3: Automatic differentiation [PDF] [Side notes] [video]

Discord

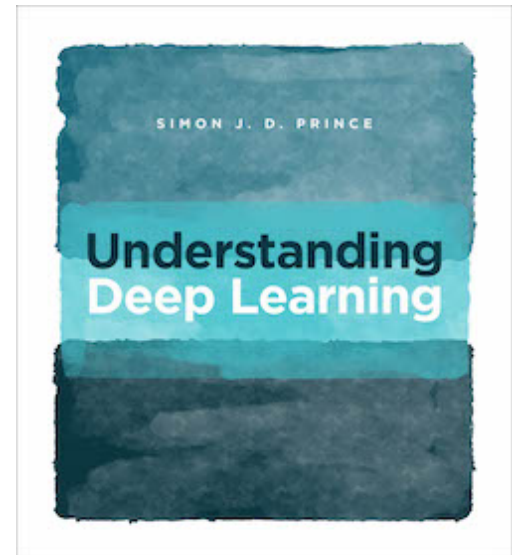
We have a Discord server for the course at <https://discord.gg/5yZqTZhXFW>. Ask questions, share resources, and chat with your peers and the teaching team.



Textbook

We recommend *Understanding Deep Learning*, by Simon J.D. Prince, for a comprehensive introduction to the field.

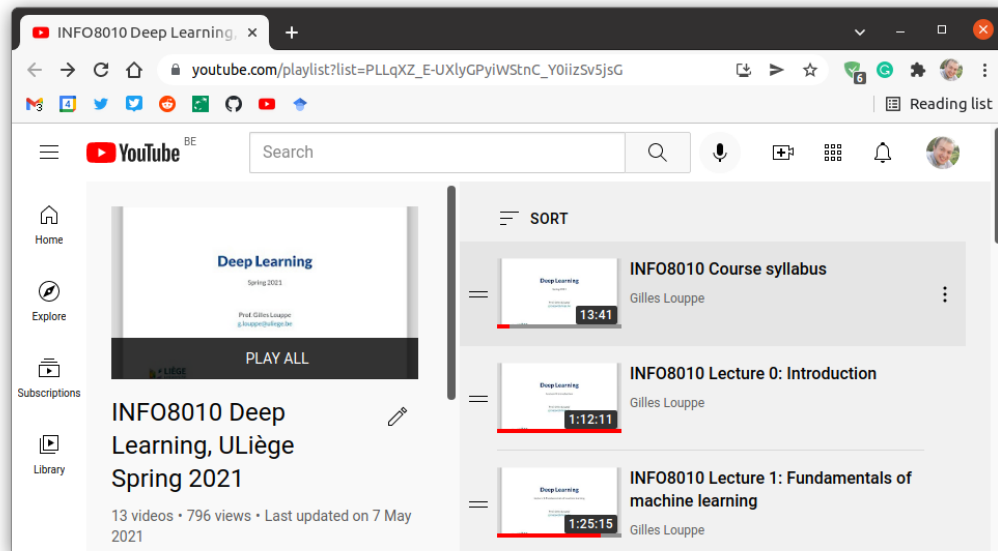
The book is freely available at <https://udlbook.github.io/udlbook/>.



Videos

Videos from Spring 2021 are available at <https://bit.ly/3roQmea>, but they are not up-to-date with the current materials.

New videos will be recorded this year throughout the course.



Projects

Homeworks

Short exercises to get you started with the practicals of deep learning.

Project

Programming project of your choosing to apply deep learning to a problem of your interest.

Evaluation

- Oral exam (50%)
- Projects (50%)
 - Homeworks (10%) (optional)
 - Programming project (40% or 50%)

The programming project is **mandatory** for presenting the exam.

