

# Image and Video Coding

## Introduction

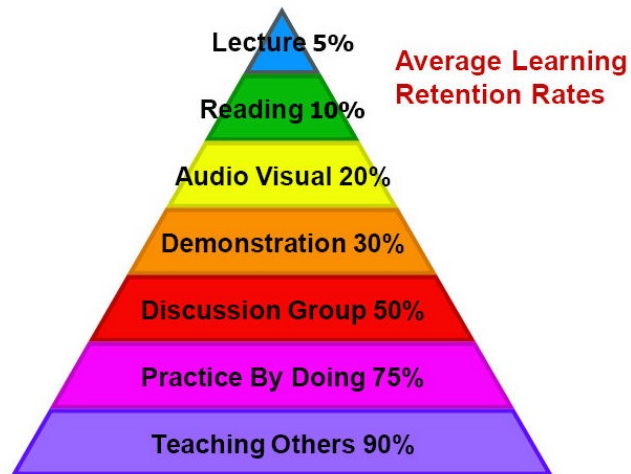
Prof. Touradj Ebrahimi  
Touradj.Ebrahimi@epfl.ch



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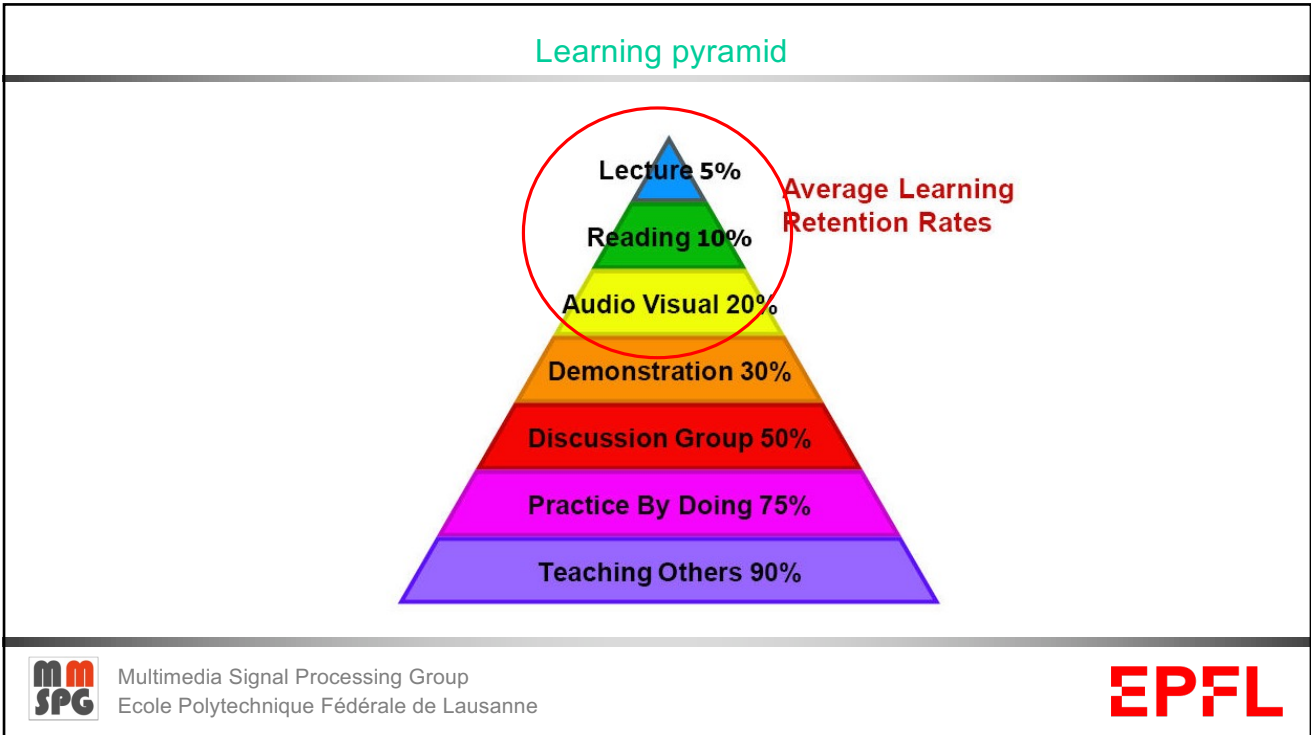


### Learning pyramid

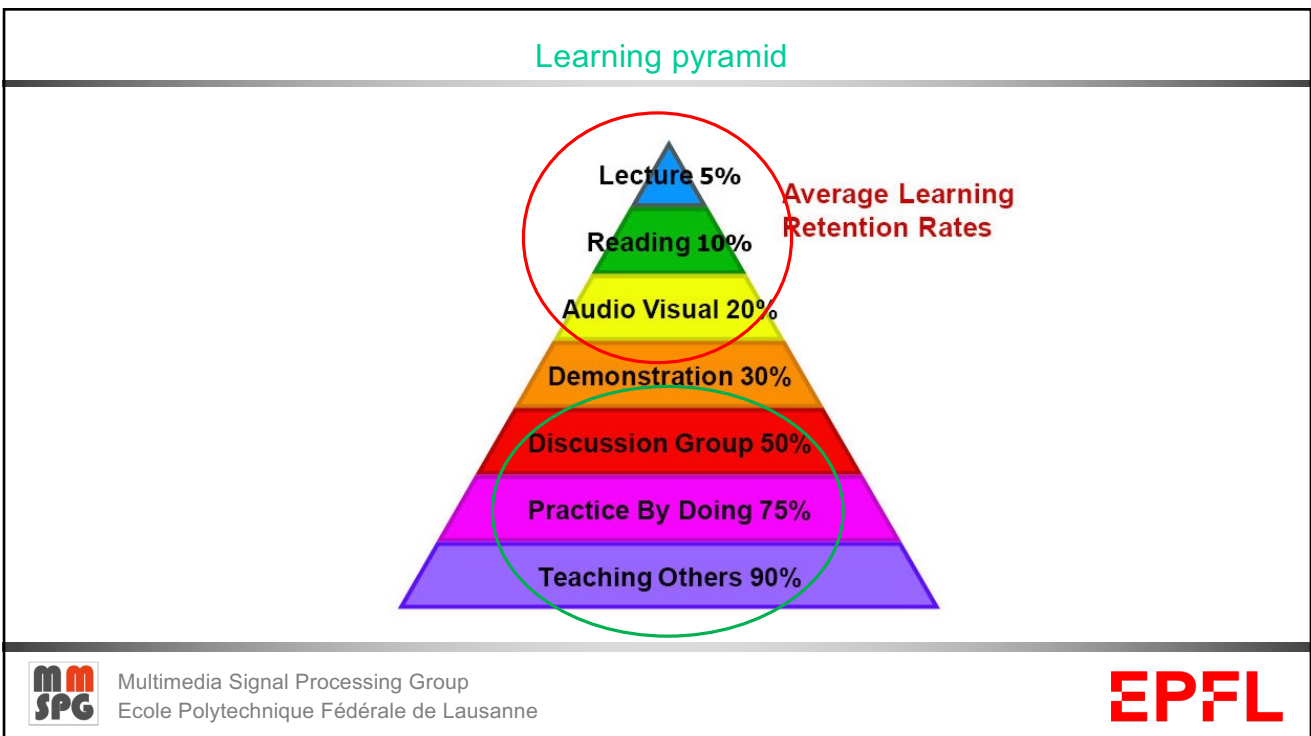


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## Image and video coding

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- Master 1<sup>st</sup> or 3<sup>rd</sup> semester
- 4 hours per week
  - Lecture sessions
  - Mini-project sessions
  - Mini-project presentations



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## Organisation

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- Date
  - Scheduled on every Monday
    - 14h15 to 18h00
- Venue
  - Lectures: ELD120
- Web site
  - <http://moodle.epfl.ch> (EE-569)



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# Moodle

The screenshot shows the Moodle interface for the course 'Image and video processing'. The main content area includes a 'General' section with the following information:

- Professor:** Touradj Ebrahimi
- Assistants:** Michela Terzolina, Dewi Lazarotto, Yuhang Liu
- Sections:** Master 1st and 3rd semesters (EL, DI, SSC, INF, etc.)
- Lectures venue:** BC04
- Laboratories venue:** Wednesdays: CD5, Thursdays: CD4
- Time table:** Wednesdays: 8h15-12h00, Thursdays: 8h15-10h00

**Important information regarding lectures:**  
The first lecture sessions will be in hybrid mode (both physical and online) to allow students who cannot come to EPFL campus in person, to be able to attend. All lectures are also recorded in video and can be accessed by students.

**Important update lab sessions:**  
All laboratory sessions will be in hybrid mode. Students can choose to be physically present or to participate remotely.

Navigation links include: News forum, Description of the course, Overview, Participants, Grades, General, and a calendar view for September 2021.

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# Timetable

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| Date       | Type                      | Subject                                     | Duration (Time) |
|------------|---------------------------|---|-----------------|
| 8 Sep. 25  | Lecture                   | Introduction, Fundamental notions           | 4h              |
| 15 Sep. 25 | Lecture/miniproject       | Fundamental notions                         | 3h+1h           |
| 22 Sep. 25 | Holiday                   |   |                 |
| 29 Sep. 25 | Lecture/miniproject       | Basics of image and video coding            | 3h+1h           |
| 6 Oct. 25  | Lecture/miniproject       | Subjective and objective quality assessment | 3h+1h           |
| 13 Oct. 25 | Mid-term exam/miniproject | Test I                                      | 2h+2h           |
| 20 oct. 25 | Mid-term break            |   |                 |

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## Timetable and milestones (cont'd)

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| Date       | Type                      | Subject                                  | Duration (Time) |
|------------|---------------------------|--|-----------------|
| 27 Oct. 25 | Lecture/miniproject       | Image compression standards I            | 3h+1h           |
| 3 Nov. 25  | Lecture/miniproject       | Image compression standards II           | 3h+1h           |
| 10 Nov. 25 | Mid-term exam/miniproject | Test II                                  | 2h+2h           |
| 17 Nov. 25 | Lecture/miniproject       | Video compression standards I            | 3h+1h           |
| 24 Nov. 25 | Lecture/miniproject       | Video compression standards II           | 3h+1h           |
| 1 Dec. 25  | Mid-term exam/miniproject | Test III                                 | 2h+2h           |
| 8 Dec. 25  | Lecture/miniproject       | Beyond image/video compression standards | 2h+2h           |
| 15 Dec. 25 | Mini-project              | Mini-project presentations               | 4h              |



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