

Presentation

Web development I: Front-end engineering

FRONT-END



BACK-END

Current status of the Web



ANTIREZ

@antirez

...

I look at the web today. Not as a programmer, but as a user of broken sites that are unable to obey the most basic rules of navigation and usability, terribly slow despite the hardware progresses. And I can only think that modern frontend development has failed.

11:06 AM · Apr 3, 2021 · Twitter for Android

Learning outcomes

- Identify the key components of web technologies
- Recognize the importance of software engineering for web development
- Understand classic and modern tools for front-end development
- Compare alternatives between frameworks, coding standards, and design patterns
- Design and develop front-end systems for websites and web applications

Course instructors

Responsible teacher

Prof. Dr. Luis A. Leiva

Teaching assistant

Dr. Mateusz Dubiel

Guest lecturers

TBA

ECTS	5
Lectures	28 h
Practicals	42 h
Coding assignments	24 h
Final exam	0.5 h

Course evaluation

Coding exercises

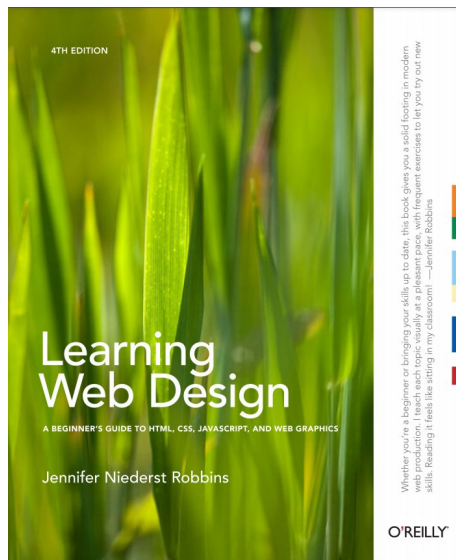
50% continuous evaluation

Final exam

50% multiple-choice quiz, open book

Redoing students: The final exam can be retaken in the next exam session. Grades from the coding exercises and final project will be retained until the student passes the course.

Reference textbooks



Learning Web Design
O'Reilly Media, 4th ed.



<https://javascript.info>

Course topics

Front-end capabilities

How the web works

Key concepts to know

HTML Overview

Marking up text

Adding links

Adding images

Tables

Forms

HTML5

Cascading Style Sheets

Formatting text

Colors and backgrounds

Thinking inside the box

Floating and positioning

Page layout

Transitions, transforms, and animation

CSS techniques

Schedule

SEPTEMBER'21

MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

OCTOBER'21

MO	TU	WE	TH	FR	SA	SU
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER'21

MO	TU	WE	TH	FR	SA	SU
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER'21

MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Schedule

Date	Room	Type	Comments
23/09	3.110	Lecture	
24/09	1.601	Practical	
30/09	3.110	Lecture	
01/10	1.601	Practical	
07/10	3.540	Lecture	Room change!
08/10	1.601	Practical	
14/10	3.540	Lecture	
15/10	1.601	Practical	
21/10	3.540	Lecture	
22/10	1.601	Practical	
28/10	3.540	Lecture	
29/10	1.601	Practical	
04/11	3.540	Lecture	
05/11	1.601	Practical	

Date	Room	Type	Comments
11/11	3.540	Lecture	
12/11	1.601	Practical	
18/11	3.540	Lecture	
19/11	1.601	Practical	
25/11	3.540	Lecture	
26/11	1.601	Practical	
02/12	3.540	Lecture	
03/12	1.601	Practical	
09/12	3.540	Lecture	
10/12	1.601	Practical	
16/12	3.540	Lecture	
17/12	1.601	Practical	
23/12	3.540	Lecture	Exam preparation
24/12	1.601	Practical	Christmas eve

Course feedback

<https://padlet.com/luileito/eodxu68pqtajvu43>

luís.leiva@uni.lu

MNO - E03 0315-130 - Campus Belval

Office hours: book an appointment via email

(I don't check the email on weekends)

