

DAT310

Web programming

2025 spring

About me

- Associate professor at UiS
 - Distributed systems/Blockchain
- Worked as web developer for 2 years



What is web programming?



Goals for this course

- Learn Web programming
 - Client-server communication on the Web
 - Mark-up languages, W3C standards
 - Client-side scripting, server-side programming
 - Building complex web applications
 - Using existing tools and frameworks
- Build an interactive website

Web technologies



Flask



Teaching style

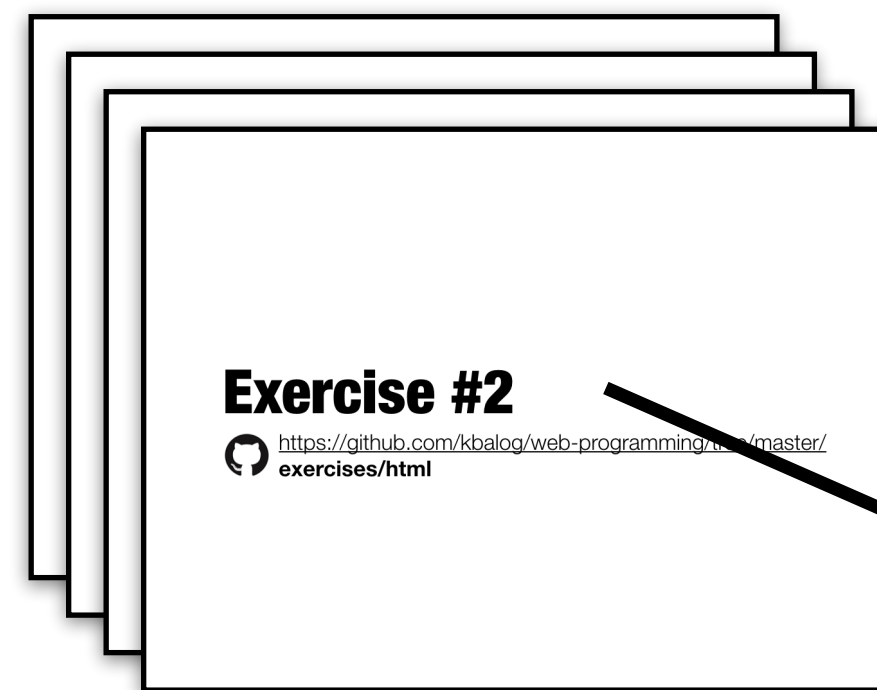
- Slides give technology overview
- In class exercises (*bring your own device*)
- Live coding

Schedule

Day	Hour	Room	
Tue	10 - 12	C-101	Forelesning
Thu	12 - 14	AR-G001	Forelesning
Fre	10 - 12	AR-G001	Forelesning
Fre	12 - 16	E456	Lab

Lectures include exercises

Lecture



Exercises on GitHub

Exercise #1: Hello world

Copy-paste the following snippet to a text editor and save it as exercise1.html. Then open the file with any web browser (e.g., Firefox, Chrome, or Internet Explorer).

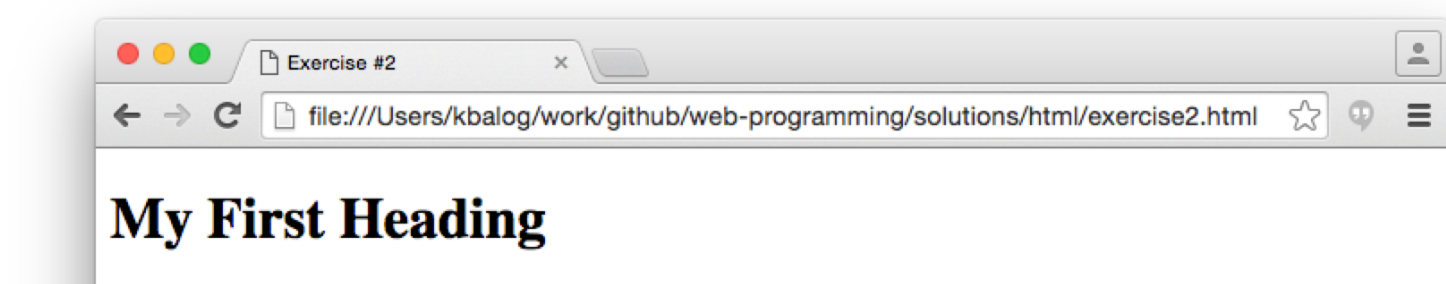
```
<!DOCTYPE html>
<html>
<head>
  <title>Exercise #1</title>
</head>
<body>
  Hello world!
</body>
</html>
```

Exercise #2: Headings and paragraphs

Create the following HTML page. You can use a text editor or the [w3schools try-it editor](#).

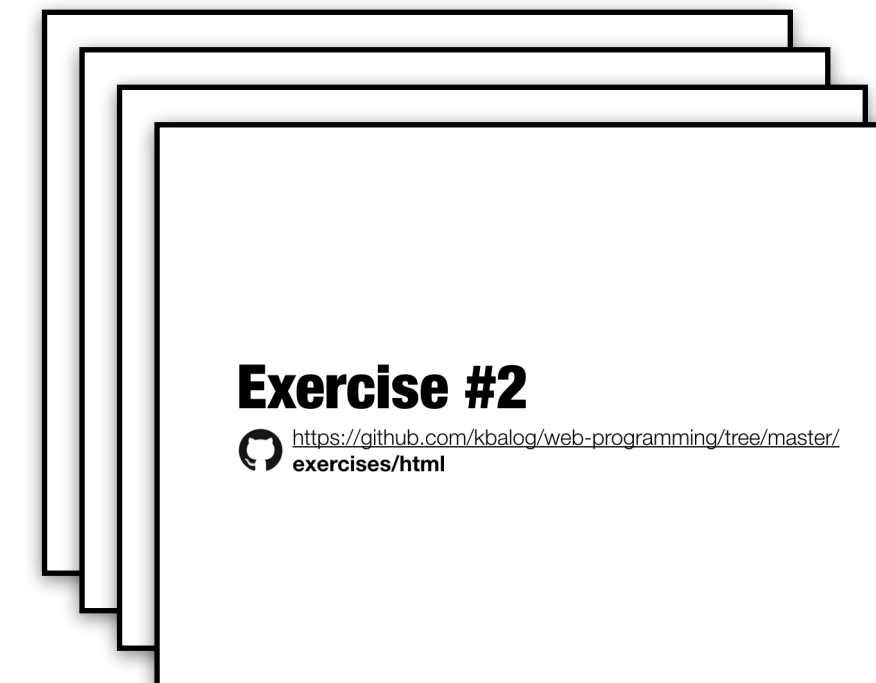
- The headings should be `<h1>`, `<h2>`, and `<h3>` (don't forget the closing tags!)
- The paragraph text should be inside `<p>...</p>`.

Solve these exercises during/after lectures!



Missed lectures

- What to do:
- Flip through slides
- Do in class exercises
 - Solutions are available



Course schedule

- Lecture: Tue 10-12, Thu 12-14, Fri 10-12
- Lab: Friday 12-16

Assignments

- 7 assignments in total
 - Increasingly more difficult
- To be completed individually
- Binary assessment: approved (godkjent) or not approved (ikke godkjent)
- Can skip one assignment, or the first two.

Assignments

You need to be logged in to github, to access the assignment solutions.

Assignment	Announced	Deadline	Points	Solution
#1 HTML	07. Jan	10. 17. Jan 18:00	0.7p	
#2 CSS	07. Jan	17. Jan 18:00	0.7p	
#3 Page Prototype	20. Jan	31. Jan 18:00	1.4p	
#4 JavaScript	27. Jan	14. Feb 18:00	1.3p	
#5 JavaScript2	17. Feb	28. Feb 18:00	1.3p	
#6 Templates	3. Mar	14. Mar 18:00	1p	
#7 AJAX	17. Mar	28. Mar 18:00	1p	

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can skip one



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#7 AJAX	17. Mar	28. Mar 18:00	1p	

Rules for assignments

1. No deadline extensions

- Special cases (e.g., illness) are only considered if reported min 3 days (=72 hours) before the deadline

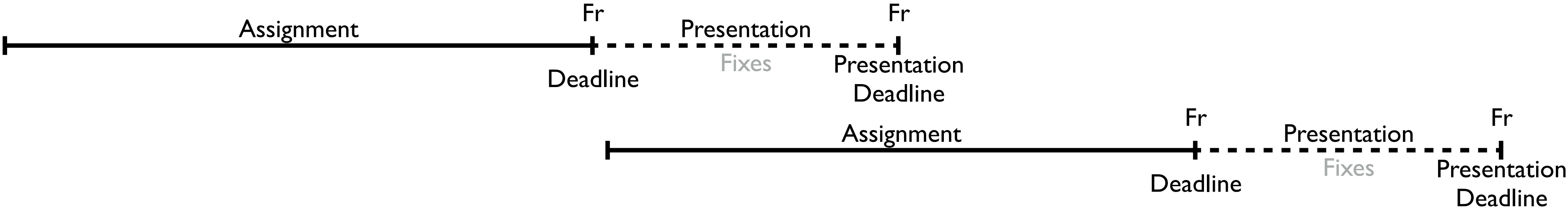
2. Presentation at least 1 week after deadline

3. Present at most 2 times

4. Working together is allowed, copying someone else's solution is not

- 1st time: warning (assignment is not accepted)
- 2nd time: you'll be dismissed from the course

Assignments timeline



ChatGPT

- Useful tool
- Very good at solving some of the assignments
- You need to read and understand your solution

Quickfeed

- Shows assignments and approval.
- Use GitHub to submit assignments.

Signing up and submitting takes time!

- Get help in the lab how to submit.

Can submit multiple times!

Course project

- Instead of an exam, you build your own web application.
- Functional and technical requirements apply.
- Groups of 2 students
- Start after easter
- 8 weeks duration
- Oral presentation **in person**

Admin



- Course responsible: Leander Jehl
 - Send an email or talk after lectures:
 - leander.jehl@uis.no



- Lab responsible: Jostein Lindhom
 - jostein.lindhom@uis.no



- Lecturer: Florenc Demrozi

Student testimonials

What did you like about the course?

Fun to see the progress we made.
From just a "simple" html page, to a
more dynamic one.

It was fun

Practical, very practical

Very practical and hands-on, the best way
to learn is to do, at least in my opinion.

The combination of slides and working
on relevant exercises during lectures

You learn actual useful stuff

Student testimonials

What did you dislike about the course?

CSS

Didn't always had time to finish the exercises in class

The workload was perhaps a bit too much at times. Not by much though.

Maybe too many languages for a single course

Sometimes it felt overwhelming

Hated the complexity of the assignments but learned the most from it.

The pacing in the middle steps up. The course starts easy, but turns difficult fast.

Resources

- Announcements on **discord** (and canvas)
- Slides, examples, exercises on **github**
 - github.com/dat310-2025/info
- Assignment status on autograder
 - <https://uis.itest.run/>

What do you need?

- Your own laptop
- *A proper* text editor
 - I.e., *not* Notepad
 - **VSCode**, Atom, etc.
- *A proper* browser which is *not* Internet Explorer, i.e., **Firefox** or Chrome

Signup - get connected

- Join GitHub
 - <https://github.com/>
- Join course on autograder
 - <https://uis.itest.run/>
- Accept invitation to course on github
 - <https://github.com/dat310-2025>
- Join Discord Server
 - <https://discord.gg/Q4uzjJHPcn>

That's all folks

- All this information can be found under the course's GitHub repository

github.com/dat310-2025/info