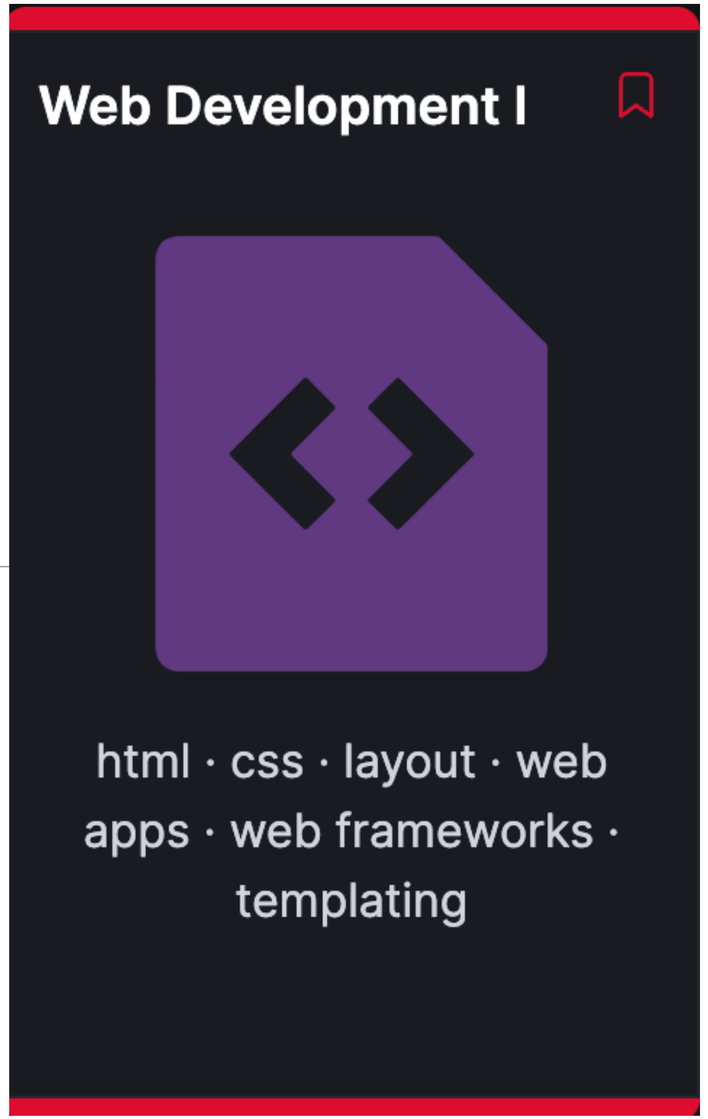
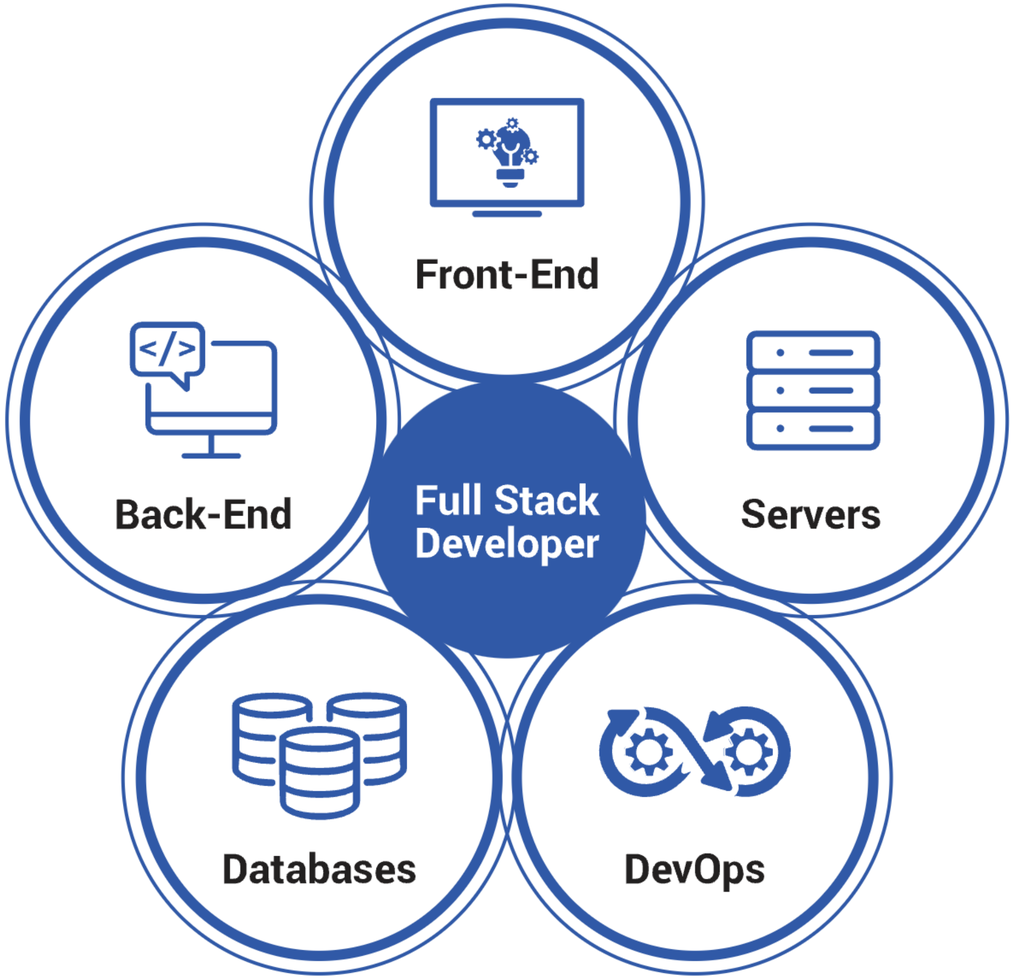
Web Development 1
Module Overview



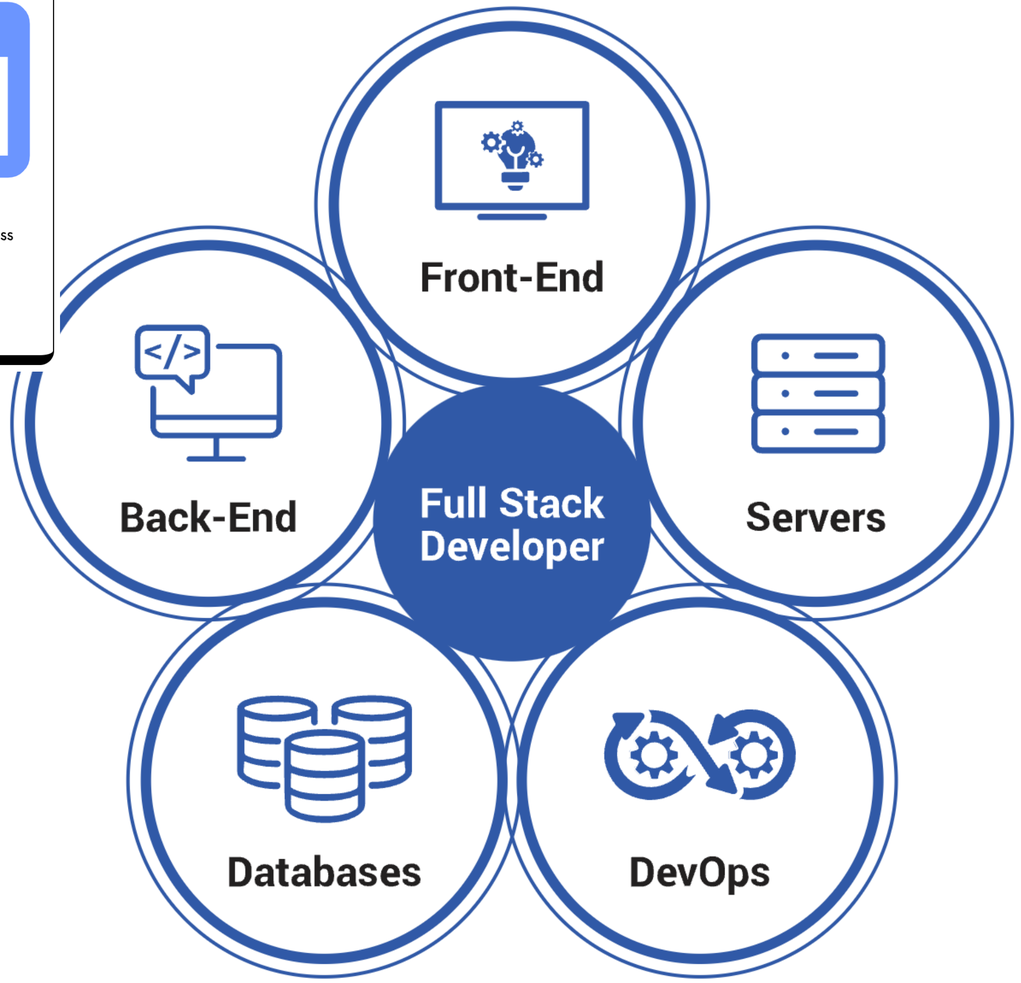

Front-End
Back-End
Full Stack Developer
Servers
Databases
DevOps

Web Development 2

javascript · node · express · git · github · glitch

Web Development 1

html · css · layout · web apps · web frameworks · deployment



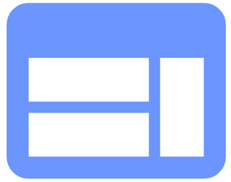
Programming

algorithms · data structures · processing · java · classes · libraries

Web Development 1

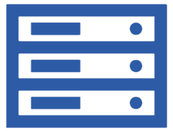
html · css · layout · web apps · web frameworks · deployment

Web Development 2



javascript · node · express · git · github · glitch

Full Stack Development 1



javascript · node · apis · tdd · frameworks · front-end · svelte

Full Stack Development 2

SPA · react · APIs · front-end

Software Security

security · crypto · threats · vulnerabilities

Computer Systems & Networks

logic · computer organisation · os · networks · interfaces ·...

Mobile App Development

layouts · activities · resources · lifecycle · widgits · ux

Databases

entities · tables · rows · sql · er · nosql

Developer Operations

cloud computing · scripting · scaling · automation · monitoring

Project

inceptionn · proposal · development · dimplementation · report

Front-End

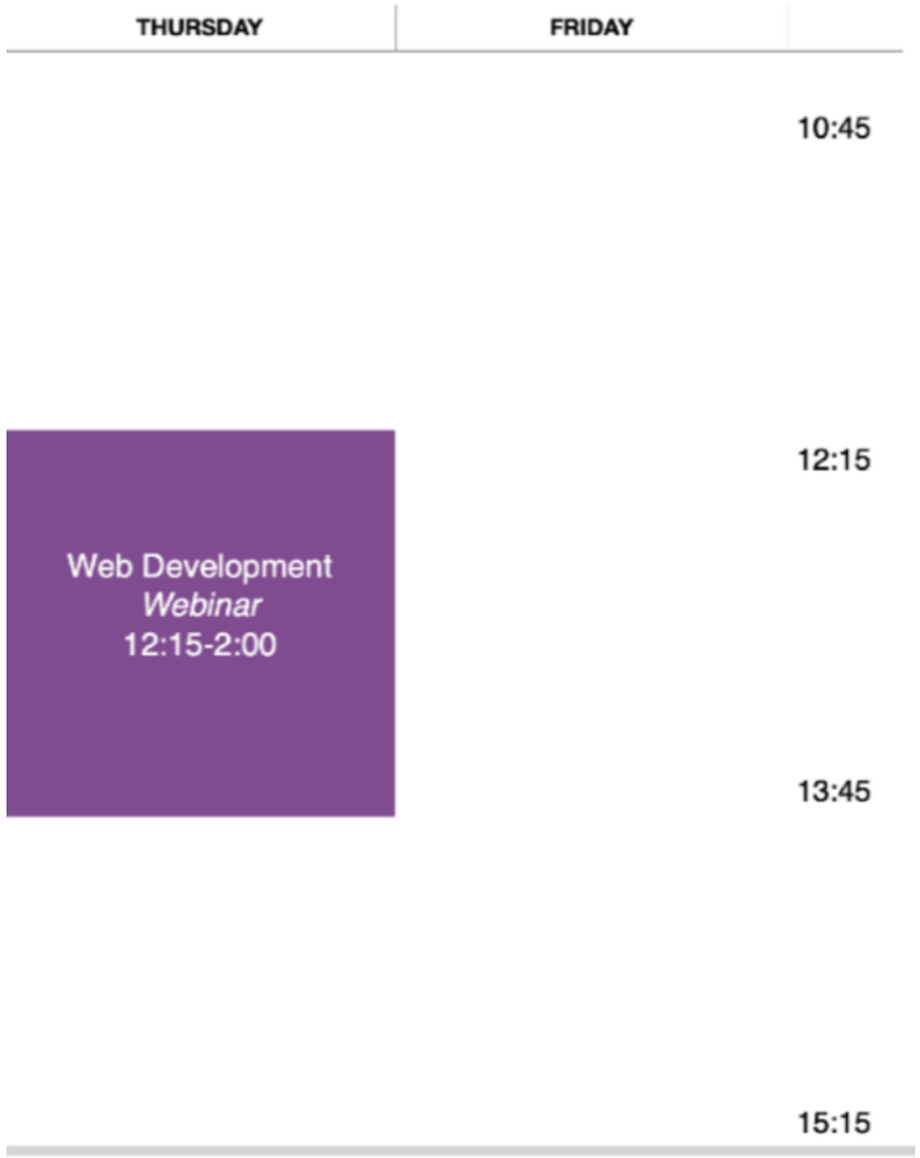
Back-End

Servers

Databases

DevOps

Webinar



Lab support throughout the week

Resources

- https://tutors.dev/course/wit-hdip-comp-sci-2024-web-dev-1
- https://moodle.wit.ie/course/view.php?id=202930&section=2

Please ensure you can access all of the resources

Semester 1
2024

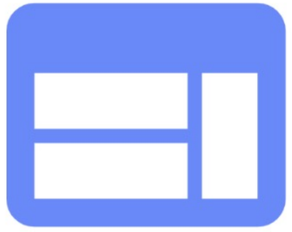
Programming

algorithms · data structures · processing · java · classes · libraries

Web Development I

html · css · layout · web apps · web frameworks · deployment

Web Development II



Javascript · node · express · git · github · glitch

		S	M	T	W	T	F	S
	Week	1	1	2	3	4	5	6
January		7	8	9	10	11	12	13
	1	14	15	16	17	18	19	20
	2	21	22	23	24	25	26	27
	3	28	29	30	31	1	2	3
February	reading	4	5	6	7	8	9	10
	4	11	12	13	14	15	16	17
	5	18	19	20	21	22	23	24
	reading	25	26	27	28	29	1	2
March	6	3	4	5	6	7	8	9
	7	10	11	12	13	14	15	16
	8	17	18	19	20	21	22	23
	Easter 1	24	25	26	27	28	29	30
April	Easter 2	31	1	2	3	4	5	6
	9	7	8	9	10	11	12	13
	10	14	15	16	17	18	19	20
	11	21	22	23	24	25	26	27
May	12	28	29	30	1	2	3	4
		5	6	7	8	9	10	11
		12	13	14	15	16	17	18
	13	19	20	21	22	23	24	25
	14	26	27	28	29	30	31	1
June	14	2	3	4	5	6	7	8
	16	9	10	11	12	13	14	15
	17	16	17	18	19	20	21	22
		23	24	25	26	27	28	29

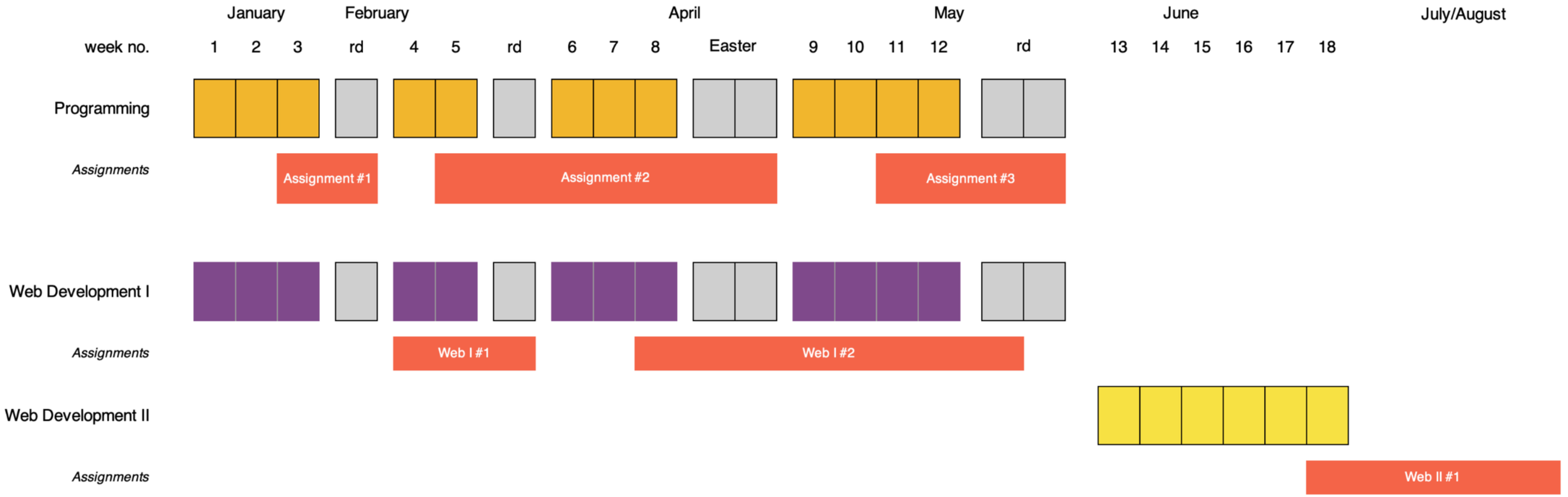
Workshop One

induction · structure · schedules · handbook

Workshop Two

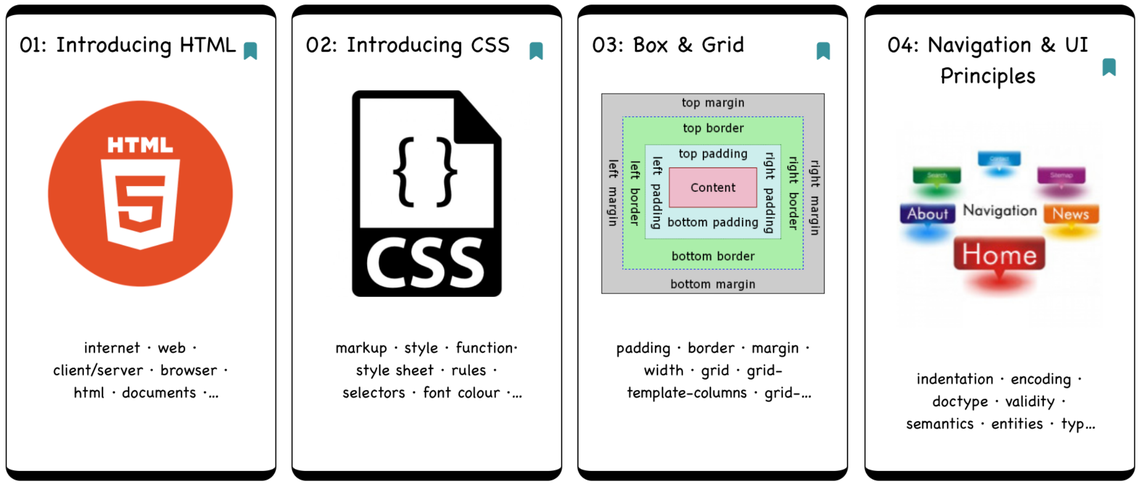
Introducing semester 2

Semester 1 Assessment Schedule



12 Topics – one topic per week

Each Topic builds on concepts, tools and techniques from previous weeks.



01: Introducing HTML

internet · web ·
client/server · browser ·
html · documents ·...

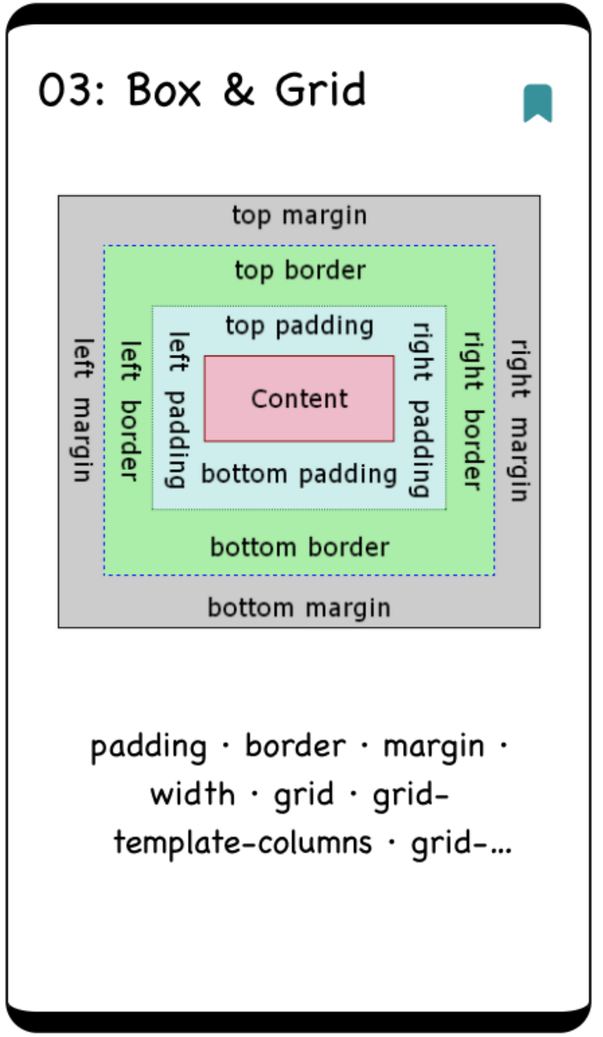
02: Introducing CSS

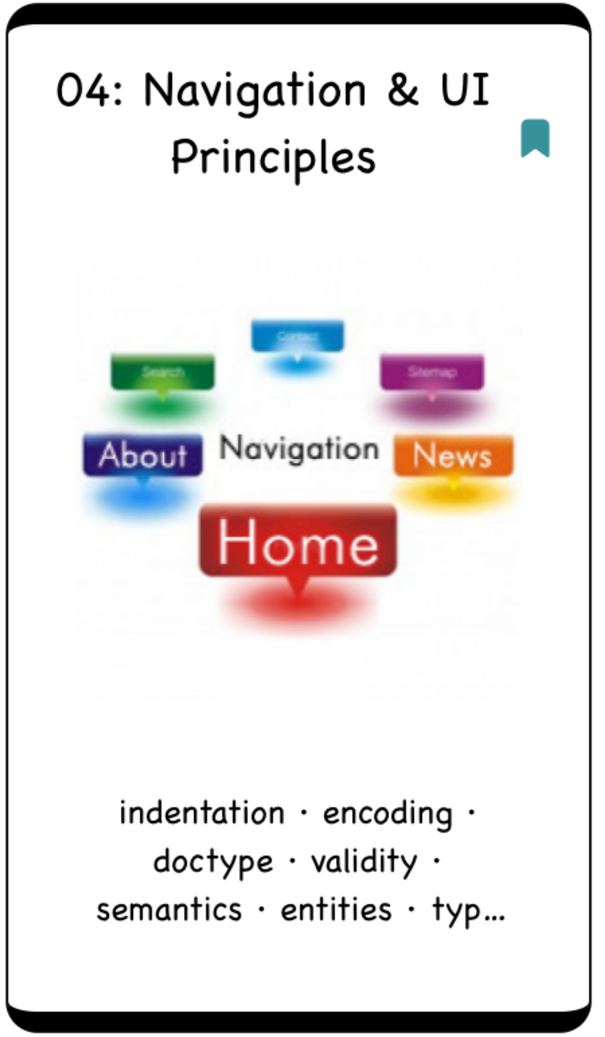
markup · style · function·
style sheet · rules ·
selectors · font colour ·...

Core HTML + CSS

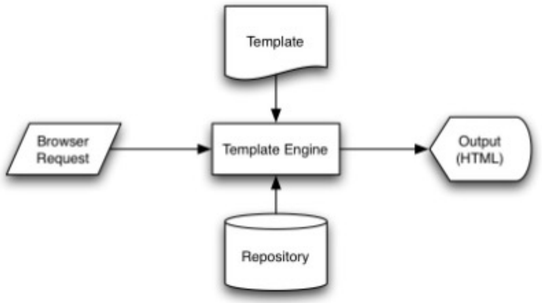
Laying out pages with CSS

Structuring a Navigation Metaphor



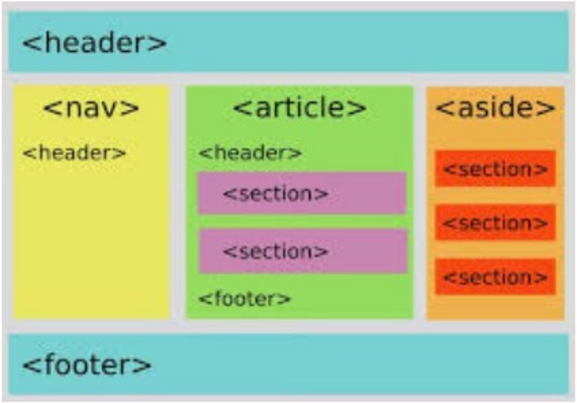


05: Templating & Colour



clients · servers · hosting · domains · dns · paths · http · command prompt ·...

06: Semantic HTML & Typography



header · main · nav · aside · article · footer · section · figure · typeface · font

Modularising a web site

Exploring UX - Colour & Typography

New this year, a focus on templating, JavaScript, modern deployment/hosting services

* To be confirmed

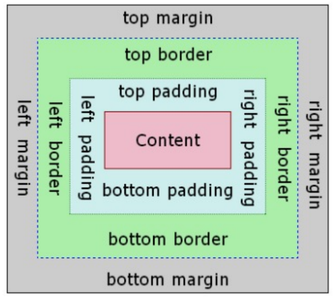
01: Introducing HTML

internet · web · client/server · browser · html · documents ·...

02: Introducing CSS

markup · style · function· style sheet · rules · selectors · font colour ·...

03: Box & Grid

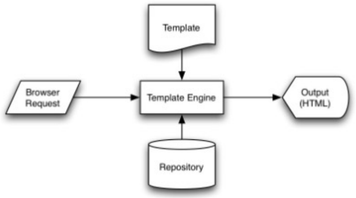


padding · border · margin · width · grid · grid-template-columns · grid-...

04: Navigation & UI Principles

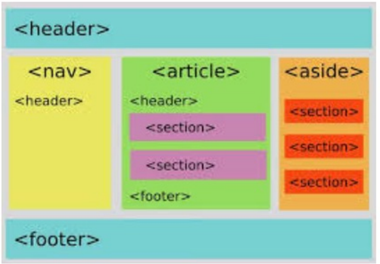
indentation · encoding · doctype · validity · semantics · entities · typ...

05: Templating & Colour



clients · servers · hosting · domains · dns · paths · http · command prompt ·...

06: Semantic HTML & Typography



header · main · nav · aside · article · footer · section · figure · typeface · font

Assignment 1 based on skills acquired in topics 1-6

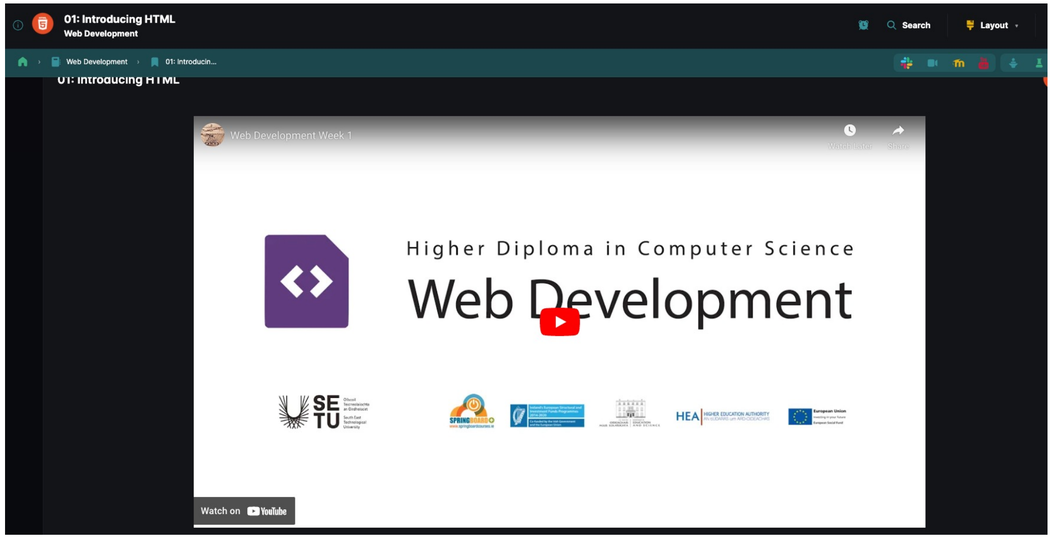
Allocated 40% of overall module grade

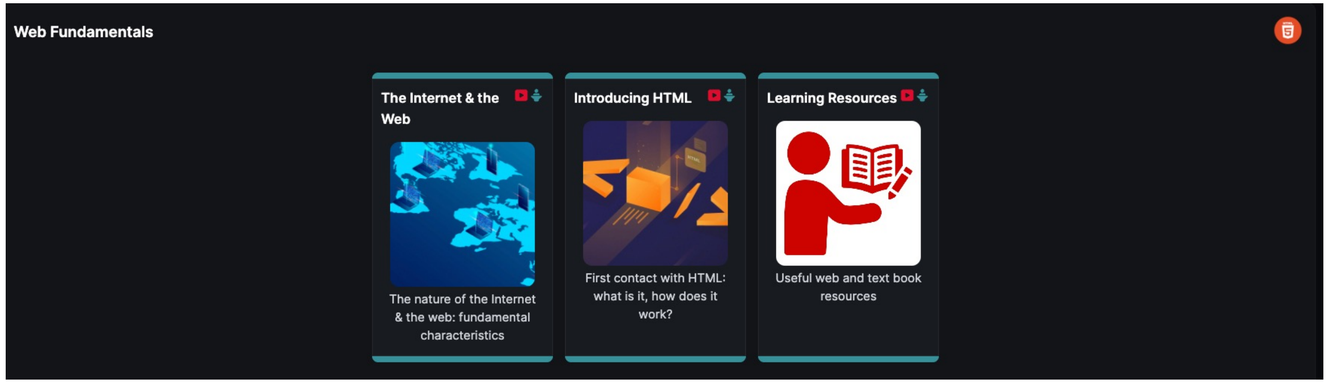
Assignment 2 based on skills acquired in topics 7-12

Allocated 60% of overall module grade

Lectures

- Video and PDF Presentations Provided
- Some lectures will be “live”, others recorded
- All lectures will be recorded
- At the end of the live lectures (or at checkpoints), questions from slack can be answered
- Live lectures will be followed by an open Zoom call (not recorded) to facilitate questions, feedback and humanity

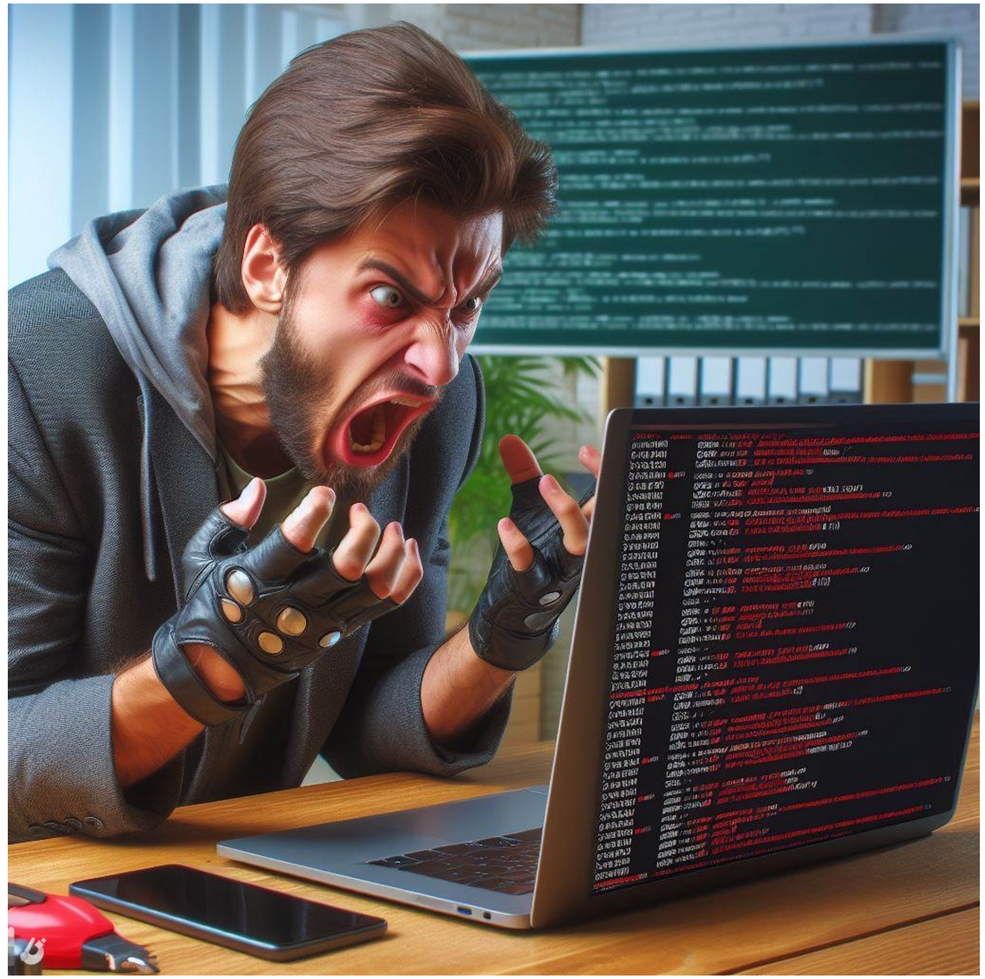




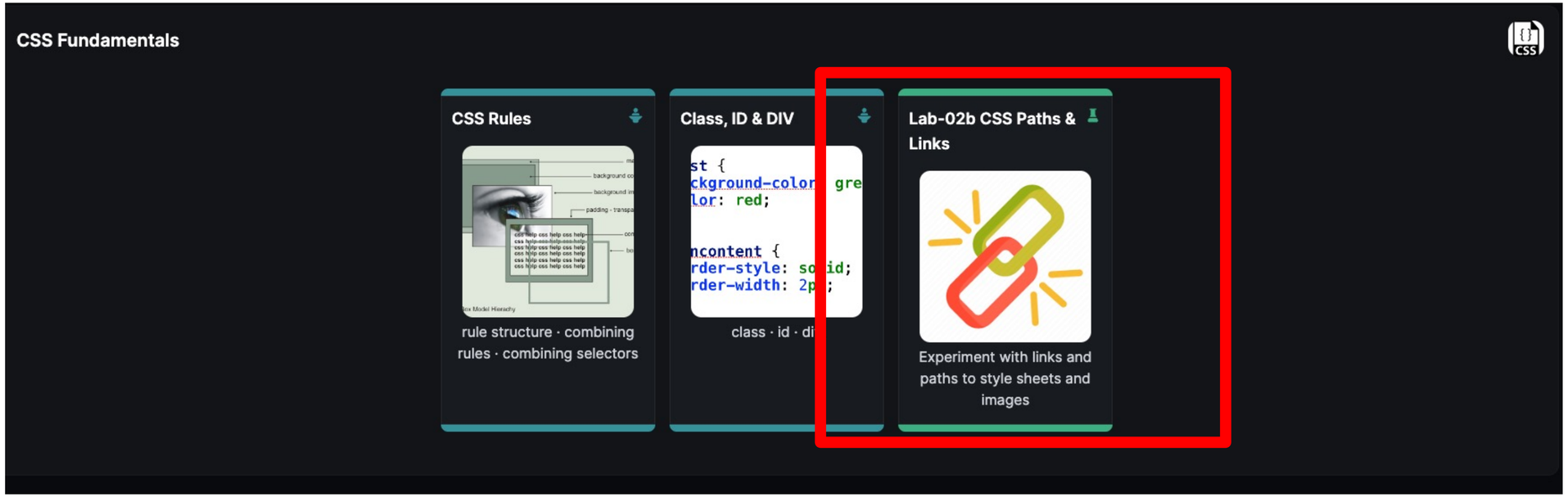
Lectures

Ah, so I don’t need to take notes!

No Notes ➔



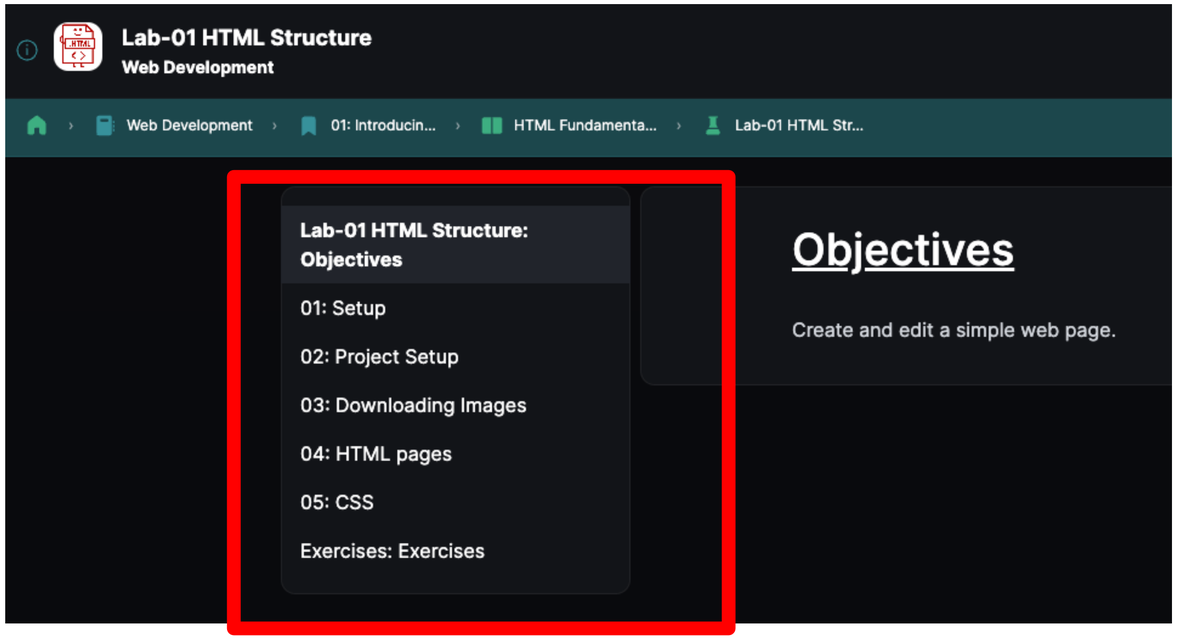
Labs



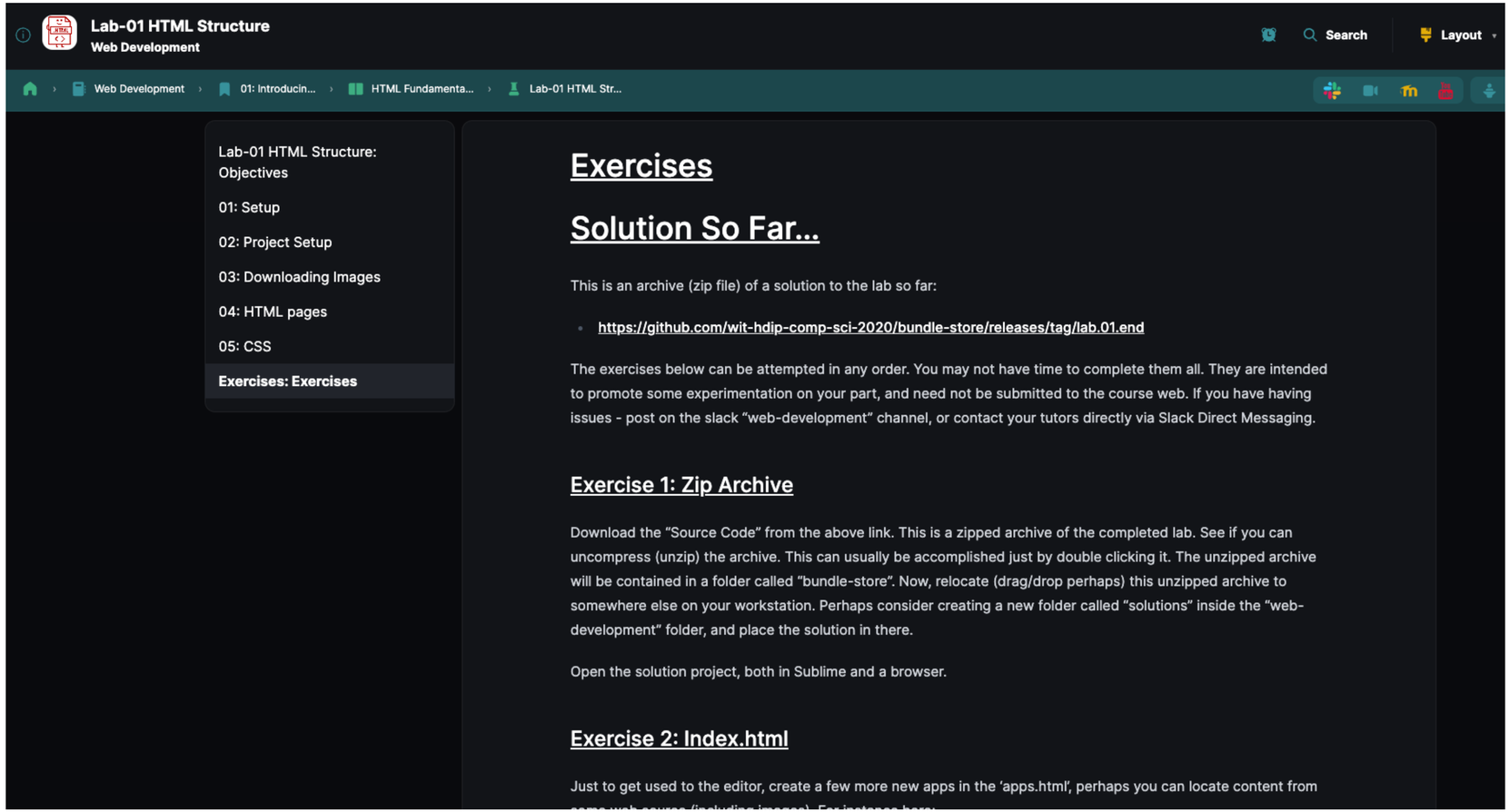
Step By Step

Learn by Doing!

(Don’t be tempted to skip)



Lab Exercises



- Independent Learning
- Challenge yourself
- It is OK to fail, you need to fail to learn
- Exercises are typically in order of difficulty – more difficult as you move down the page

I Need Help!

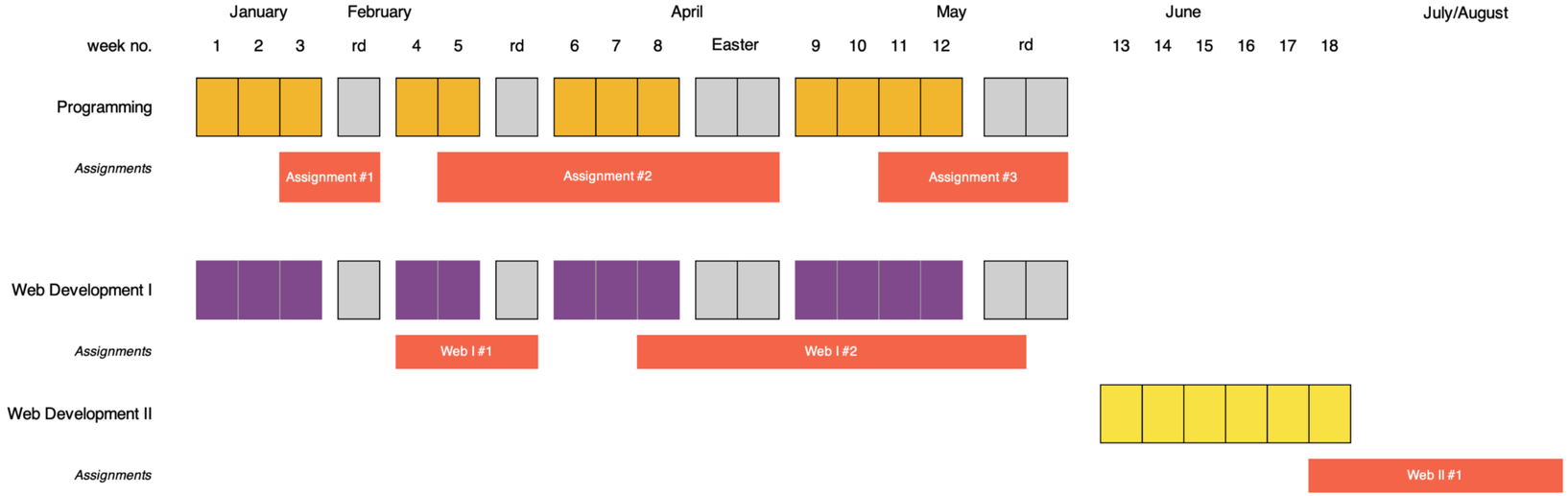
- As a group, you should create a channel to communicate with each other on labs
- If all else fails – web dev slack channel - *#web-development-1*

Lab Exercises

Lab Exercises

- Labs are not submitted or graded
- However, they are VITALLY IMPORTANT to your learning experience

Recap

- Thursday 12:15 – Lectures with Lab Intro at End (**Recorded**)
- Tuesday 19:00 – Zoom Session to help with labs, assignments, whatever (time may change)
- Available via Slack to assist throughout the week, we may schedule these times after the dust settles

Semester 1 Assessment Schedule