

Web Development Module Overview

Timetable + Schedule

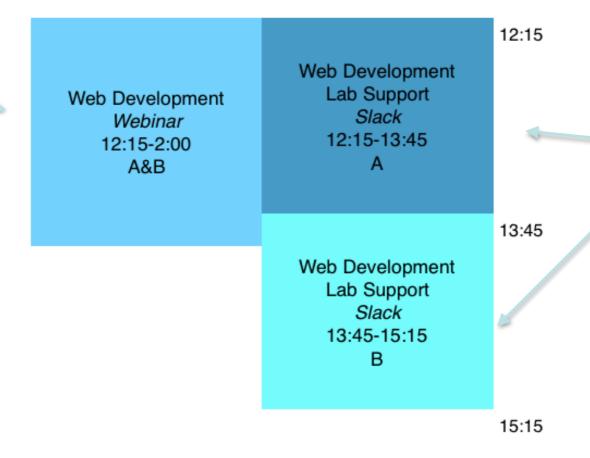
Module Overview

Assignment Sequencing

JESDAY THURSDAY	FRIDAY
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10:45

Webinar



Lab
Support
Help
Desk

Assessment Schedule

er 1	s	М	Т	W	Т	F	s
Week							
0	14	15	16	17	18	19	20
1	21	22	23	24	25	26	27
2	28	29	30	31	1	2	3
3	4	5	6	7	8	9	10
4	11	12	13	14	15	16	17
reading-week	18	19	20	21	22	23	24
5	25	26	27	28	1	2	3
6	4	5	6	7	8	9	10
7	11	12	13	14	15	16	17
8	18	19	20	21	22	23	24
easter-break	25	26	27	28	29	30	31
	1	2	3	4	5	6	7
9	8	9	10	11	12	13	14
10	15	16	17	18	19	20	21
11	22	23	24	25	26	27	28
12	29	30	1	2	3	4	5
reading-weeks	6	7	8	9	10	11	12
	13	14	15	16	17	18	19

Web Development	A1	spec:	4-Feb
		submit:	25 Mar
	A2	spec:	18 Apr
		submit:	21 May

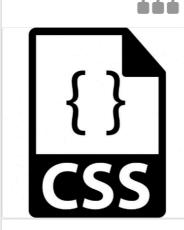
	Jan	February			March				April				May				
week no.	1	2	3	4	rd.	5	6	7	8	eas	ster	9	10	11	12	rd.	1
Web Development							A1									A2	

12 Topics – one topic per week

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

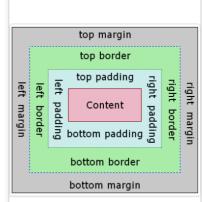


· links ·images · nesting · block · inline



2: Introducing CSS

markup · style · function· stylesheet · rules · selectors · declarations properties values classes · ids · inheritance



3: The Box Model

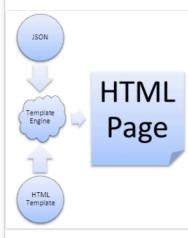
content · padding · border · margin \cdot style \cdot width \cdot colour \cdot dom \cdot layout · float · left · right



html versions · header · main · nav · primary · secondary · footer · semantic elements \cdot html style guide







servers \cdot hosting \cdot deployment \cdot dns · local server · dry · template engine · ejs · partials · layouts

6: CSS Frameworks





container \cdot segment \cdot grid \cdot stackable · tables · icons · images · row · col

7: Applications

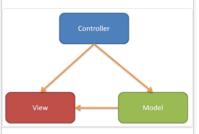




sites · apps · frameworks · command line · ide · java · request response · front-end · back-end

8: Model View Controller





model · view · controller · config template · layout · database · table · entity · onetomany

9: Forms

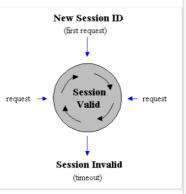




routes · get · post · delete template loops · submit · buttons

10: Sessions

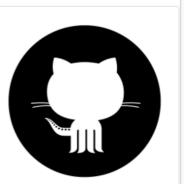




 $stateless \cdot stateful \cdot tracking \cdot$ cookies · signup · login · logout session object · clearing

11: Git, Github & **Bitbucket**





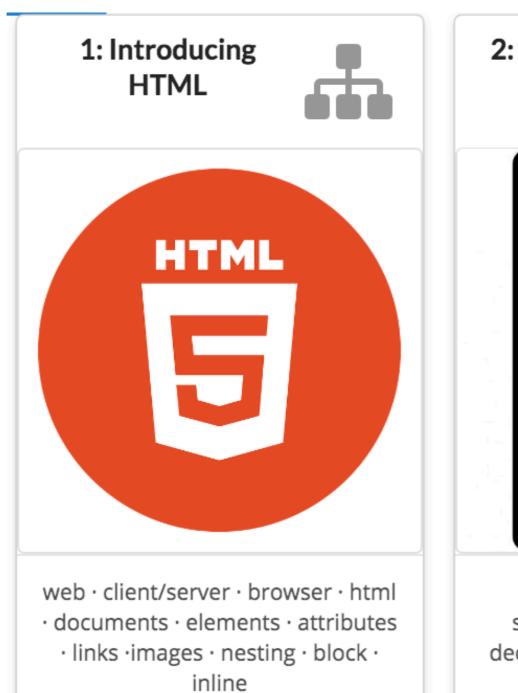
repository · local · remote · push · pull · stage · commit · sourcetree · tag · history

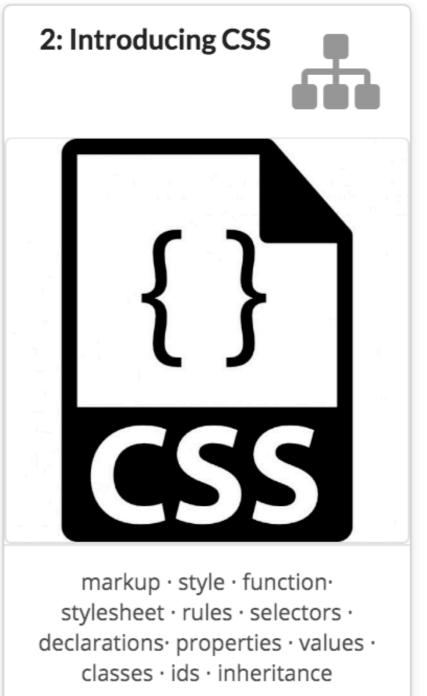
12: Deployment



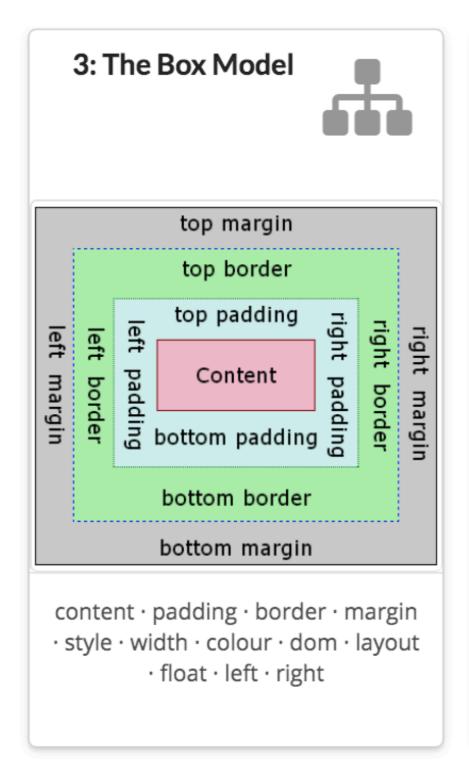


heroku · cli · config · database dashboard · logs · startup · management · shutdown



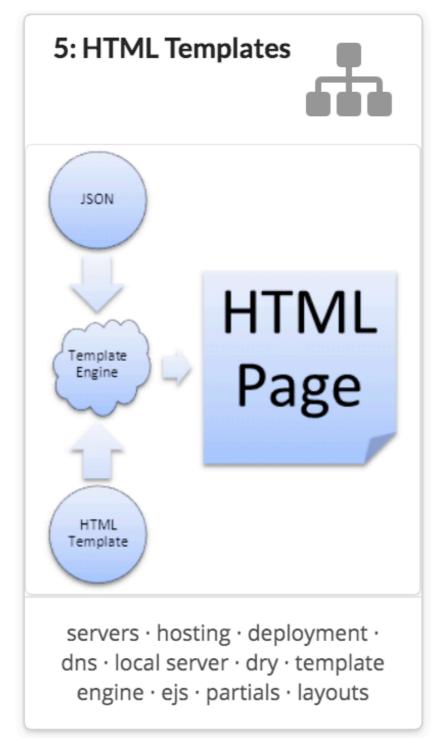


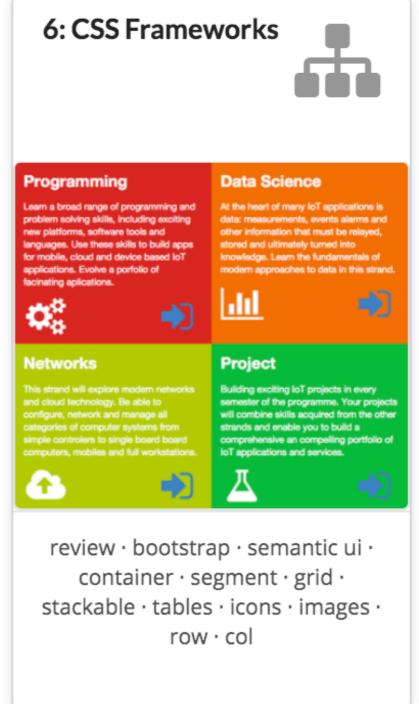
Core HTML + CSS





Laying out pages with CSS Structuring a Navigation Metaphor



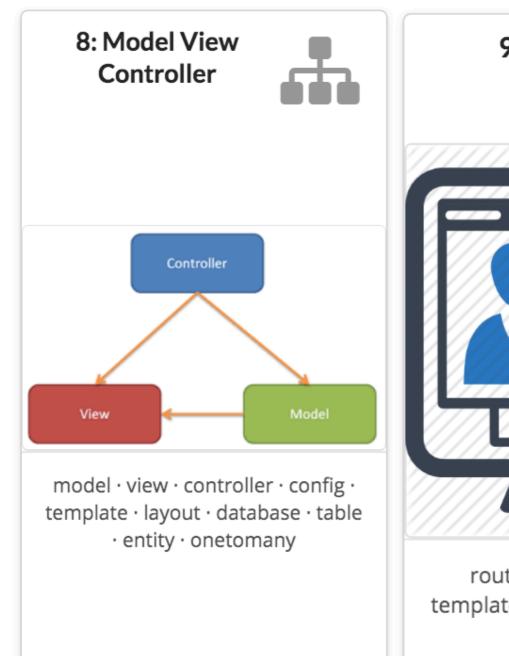


Modularising a web site

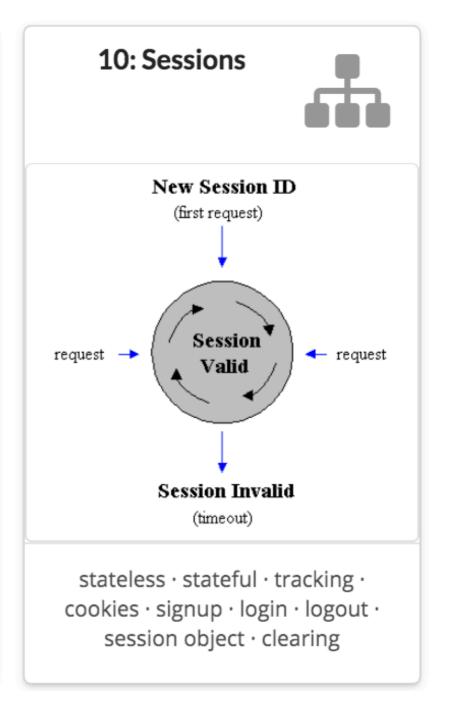
Professional
Styling with
CSS Libraries

From Web Sites to Web Applications

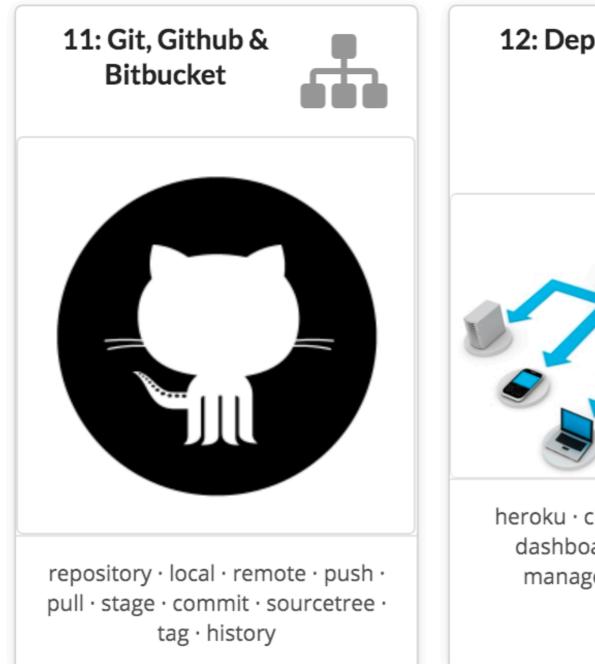
7: Applications $\mathsf{sites} \cdot \mathsf{apps} \cdot \mathsf{frameworks} \cdot \\$ command line \cdot ide \cdot java \cdot request \cdot $response \cdot front\text{-end} \cdot back\text{-end}$







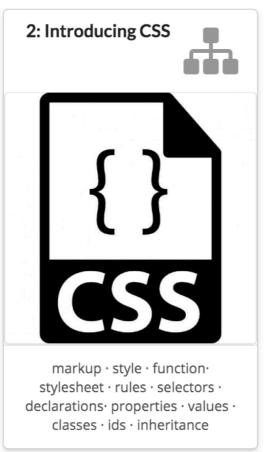
Fundamentals of Web Application Development

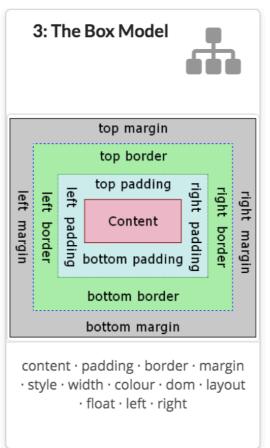


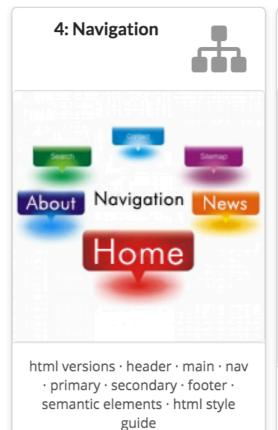


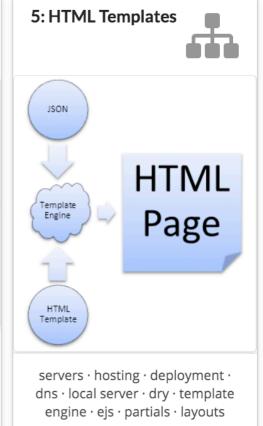
Moving an Application to the Cloud





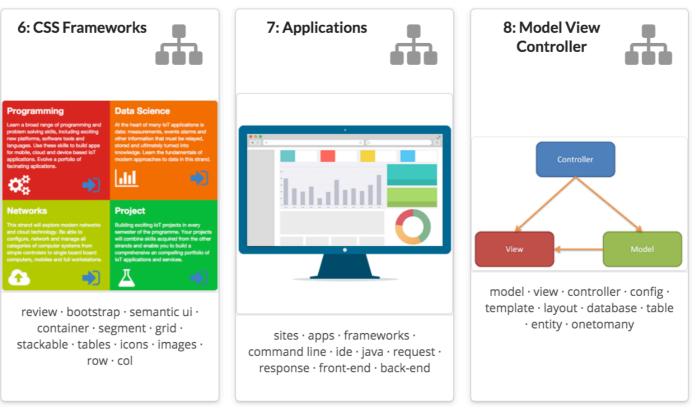


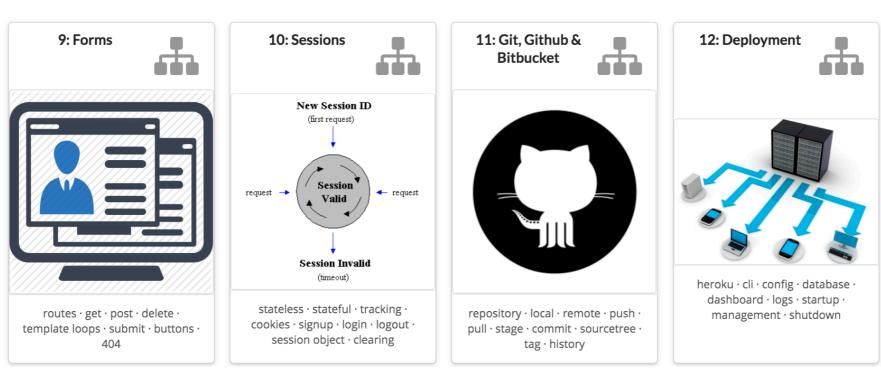




Assignment 1 based on skills acquired in topics 1-5

Allocated 40% of overall module grade





Assignment 2 based on skills acquired in topics 6-12

Allocated 60% of overall module grade