







Outcomes of Assignment Pt 1

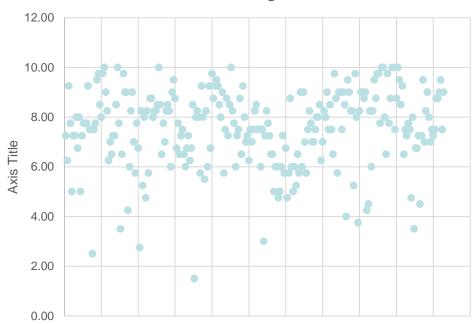
Assignment Pt 1 results

Assignment Pt 1 mean: 7.53 Assignment Pt 1 stdev: 1.56



Forum post 1 average: 1.44 Forum post 2 average: 1.29

Student marks Assignment Pt 1





Where are we up to?

	COMP1710/6780 Roadmap for Semester 2 2022 (022 (5	s h. cnange)						
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Teaching Break	Teaching Break	Wk 7	8 8	Wk 9	Wk 10	Wk 11	Wk 12	Final Exam	
Lectures		Intro to web de & design	v Content types, learning styles, user reqs	0		Video editing, Web dev tools	•		Good & bad web design	Cyber sec & Phishing	Academiic writing, Javascript	ePubs, Javascript	Front & back end	Exam hints & tips		
MOOC/ labs	MOOC	MOOC1&2 Intro to labs & tools	MOOC3 & Creating HTML files	MOOC4 & HTML forms, source logs	MOOC5	MOOC6 & video editing			Assignment #2 assistance	Good & bad web design & phishing		ePubs & remedial	Assignment #3 assistance	TBC		
Assessment	Assign Pt 1								Assign Pt2				Assign Pt 3			
Others	Continuous Improvement — Attend a continuous improvement meeting Experiment Participation — Attend experiments totalling 2 hours offered by SONA or us. →															

Week and date	Subjects/Labs	Week and date	Subjects/Labs
Wk1 - 25/7/22	Introduction to course, MOOC1 available, no labs	12/9/22	Non-teaching week
Wk2 - 1/8/22	Introduction to webdev/design, MOOC2	Wk 7 - 19/9/22	Good and Bad web design, Assign pt2 assistance labs
	Content types and roles, User Reqs, Perspective taking, MOOC3	Wk 8 - 26/9/22	Cyber security and phishing, Good/bad web design + phishing lab, also Cl
Wk4 - 15/8/22	Image/info credibility, User Reqs, Perspective taking, MOOC4	Wk 9 - 3/10/22	Report writing, Javascript, No labs?
	Human Computer Interaction, Webdev tools MOOC5	Wk 10 - 10/10/22	ePublications, Javascript, Remedial labs and ePubs
Wk6 - 29/8/22	Video editing, Webdev tools, MOOC6	Wk 11 - 17/10/22	Frontend and Backend, Assignpt3 assistance labs
5/9/22	Non-teaching week	Wk 12 - 24/10/22	Final exam tips



Where are we up to?

Week and date	Subjects/Labs	Week and date	Subjects/Labs
		12/9/22	Non-teaching week
	Introduction to webdev/design, MOOC2	Wk 7 - 19/9/22	Design and accessibility, Assign pt2 assistance labs
		Wk 8 - 26/9/22	Cyber security and phishing, Good/bad web design + phishing lab, also CI
	Image/info credibility, User Reqs, Perspective taking, MOOC4 Aus	Wk9-3/10/22 Wk9 tralian Labour Da Public holiday	Report writing, Javascript, No labs?
		Wk 10 - 10/10/22	ePublications, Javascript, Remedial labs and ePubs
	Video editing, Webdev tools, MOOC6	Wk 11 - 17/10/22	Frontend and Backend, Assignpt3 assistance labs
		Wk 12 - 24/10/22	Final exam tips



Where are we up to?

25% / 100%

Assessment items behind us, assessment items in front of us

	Task		%	Due Date (AEST/AEDT)	Marks/Feedback Returned
	Assignment (3	0%) INDIVIDU	AL		
V	Section 0: Topic Submission	Preferred topic	0%	End of Week 2 (Friday 12 August 5pm but there is leeway)	End of Week 4 (extended deadline to 21 August) Note that 'no news is good news'; we will only contact students with problematic topics
/	Assignment 1: Website Submission	5 Webpages minimum	10%	Assignment Pt1 Due Monday 29 August 11:00am AEST	Second week of teaching break
	Assignment 2: Website Submission	2 Webpages minimum	10%	Assignment Pt2 Due Monday 26 September 11:00am AEST	Week 9
	Assignment 3: Website Submission	Complete Website	10%	Assignment Pt3 Due Monday 24 October 11:00am AEDT	Within fortnight following the end of course
	Communication	on and Particip	oation + R	Report (25%) INDIVIDUAL	
oart 🗸	Piazza forum posting + CI) contribution	4/6	6% posts; 4% CI	Posts as for Assign 1 and 2; CI as completed in 2 nd half semester	Posts as for Assign 1 and 2; CI as completed in 2 nd h semester
	Report		15%	Report due Sunday 30/10/2022 AEDT	Within fortnight following the end of course
	Examined Ma	terial (45%) IN	DIVIDUAL	_	
part 🗸	Online Quizlets 11/15		15%	End of every week	On submission
	Final Exam		30%		



Aesthetics and Usability

Aesthetics

 \longleftrightarrow

Usability

"...aesthetics refers to the emotional components"

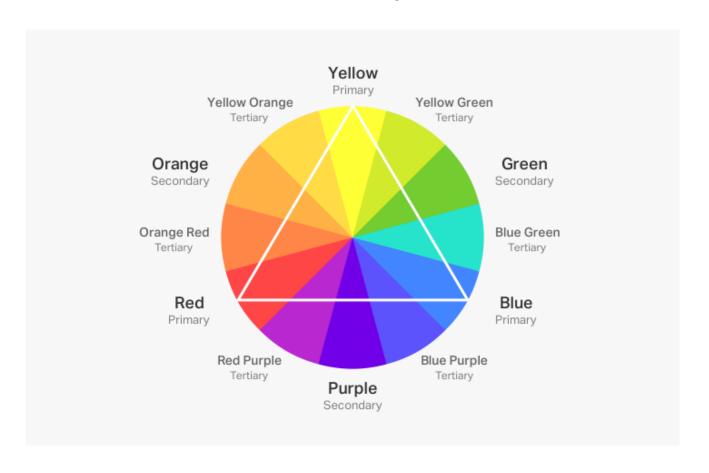
"The usability of an interface refers to its capacity to support task completion."

"... by understanding how design factors affect users, it is possible to build systems targeted to certain effects and outcomes."

Note: We discussed design and usability in detail in Weeks 3&4



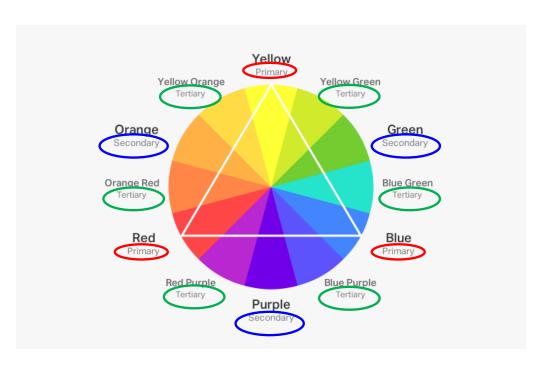
Colour has its own theory!



https://bit.ly/3UkWUH7 7







Primary colours

There are three primary colours: yellow, red and blue (though we tend to seem them as magenta, cyan and yellow)

Secondary colours

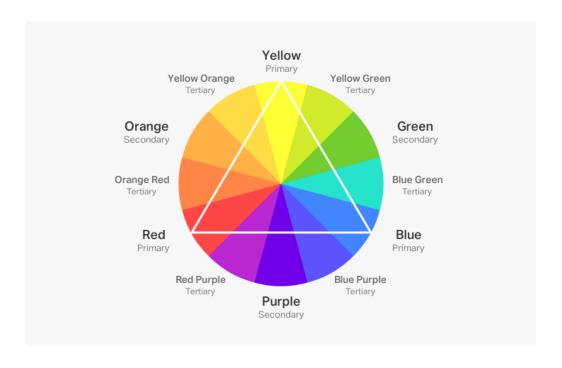
When we merge the primary colours we get secondary colours: orange, purple, green

Tertiary colours

When we merge the primary colours we get secondary colours: orange, purple, green



Colour theory



Complementary is great for high contrast Analogous is great for continuous colour

Colour schemes - 4 main types

Monochrome – different saturations of the same colour

Complementary – Two colours from opposite sides of the colour wheel

Analogous – three colours next to each other on the colour wheel

Triadic – three colours at points of a triangle drawn in the wheel

Why should I care?



Colour theory

Why should you care?

- Colour has a huge effect on your visitors and sets the context of your content
- •If your development is big, you will have a designer who selects the colours and tells you what they are
- •If you development is small, you will have to select the colours
- •Knowing what colours (including the specific code) will make your life a lot easier.





This colour *patented* by a catfood manufacturer, hex colour is 751A80 RGB is 117,26,96

Australian National University

Colour theory

Commercial sites need to pay attention to colour

•Research shows that the visual representations on a website may play a factor in up to 96% of purchase decision.

Warm Colors

- Colour plays a significant role in helping customer to navigate the site where to visit next, buttons to push, attention focus.
- Branding companies have logos and colour design standards; these need to be used to help visitors orient themselves in online spaces

Other aspects of colour to consider:

Cool Colors

Contrast – emphasizes key point

Warm vs Cool – creates moods. Warm is comforting / happy but can be too energetic in reds especially. Cool is peaceful but can become too formal or cold. Colours can be shaded by adding black and lightened by adding white but remain within your colour palette.



Colour theory

<u>HTML</u>

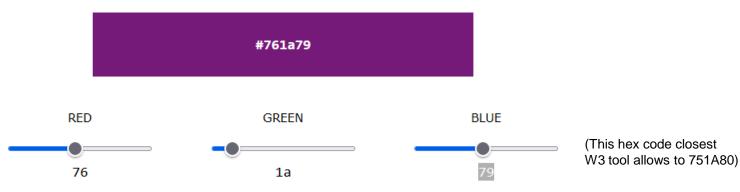
color: #f751A80;

But of course usually you'll use CSS, and rgb colour is a bit more intuitive + alpha CSS

rgb(red, green, blue) OR rgba(red, green, blue, alpha)



You might like to try this W3 Schools tool



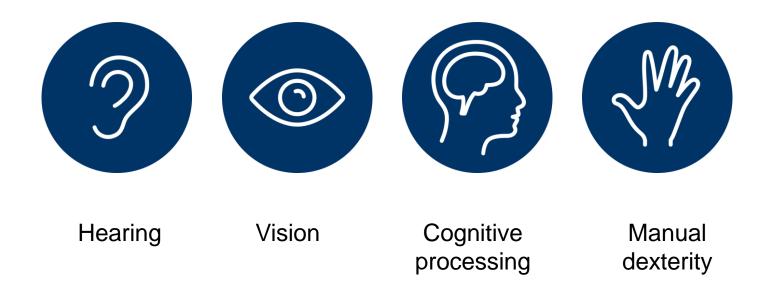
https://www.w3schools.com/css/css_colors_hex.asp



There are many issues to be considered in accessibility!

Coding web apps, auditing web pages for accessibility, designing interfaces to meet the needs of people with disabilities, convincing and reporting to website owners, advocating for accessibility.

BTW, you can do a free online course (and get a certificate) in accessibility 16-20 hours at https://www.w3.org/WAI/courses/foundations-course/ but we'll just touch on a few accessibility issues today.



Deaf and hard-of-hearing

Textual alternatives are needed – captioning of videos, transcripts for audio content

Text simplification to overcome language deprivation

Visual representations of audio material – graphs, figures



Image demonstrating how to wear masks and hearing aid

430 million people worldwide have disabling hearing problems

https://www.who.int/en/news-room/fact-sheets/detail/deafness-and-hearing-loss



Accessibility - vision

Red-green colour blindness affects up to 8% of males (0.4% females)

Normal vision vs. protanopia





Other vision conditions: blindness, low-level vision

How to assist in your webdev practices:

Provide alternative text for any important visual elements (including images)

e.g. src=https://imagesite/imageofsurfboards.png alt="Image of surfboards lined up on a sidewalk in full colour and altered colour to show how a person with red-green blindness might see them."

Understand screenreaders (some built in screen readers are *VoiceOver* for Macs, *Narrator* for Windows, *TalkBack* for Android but there are many others)

Your visitors may also use screen magnifiers, which may reduce their coverage of your content, especially around the edges

WHO estimates that 285 million people worldwide are estimated to be blind or have low vision. https://www.who.int/en/news-room/fact-sheets/detail/blindness-and-visual-impairment



Cognitive impairments

Intellectual disabilities, agerelated thinking and remembering Mental health problems including depression Dyslexia ADHD



...and more

Cognitive accessibility

- Multiple modes of delivering content: text-tospeech, video
- Plain language text
- Prioritising content
- Minimise distractions
- Use mainstream interaction conventions like double-click to open, changing link colour when already visited etc.
- Give extra attention to website authentication
- Make forms easy to use
- Error capture and management

Manual dexterity problems

Some people can have temporary or permanent manual dexterity disabilities: arthritis, amputation, broken hands/wrists, tremors, etc.

Keyboard functions are important for this group (but be careful of shortcut keys to avoid conflicts with assistive device shortcuts)

Logical tab orders in forms will help people using speech to text





Accessibility should be **built into the design from the start**, not something to do when you get to it.

This is particularly true if your content targets these audiences!!!

You may find yourself working on a website (especially corporate and government websites) that is legally required to meet accessibility regulations.

A commonly used standard is WCAG 2.0 AA

Remember As W3C notes,

"Accessible media is **essential for people with disabilities**, and is **useful for everyone**."