



MONASH
University

程序代写代做 CS编程辅导

FIT1050 Web Fundamentals

Web Content Accessibility

Week 8



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Learning objectives

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Understanding Accessibility Issues

- Understand broad concepts of accessibility
- Consider the impact of situational impairments



Accessibility principles for the Web

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- Differentiate between types of accessibility problems
- Legal requirements for web accessibility
- Web accessibility initiatives and guidelines

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Web content accessibility techniques

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- Simple and practical solutions for accessible content

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Understanding Accessibility Issues

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What is accessibility?

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Wikipedia: Accessibility can be viewed as the "ability to access" and benefit from some system or entity. The concept focuses on enabling access for people with disabilities... however, research shows that development in accessibility brings benefits to everyone.

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W3C: Accessibility is a simple thing, a philosophy, although in some countries it is also part of the law: Accessibility is treating everyone, no matter what their ability, the same...

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Accessibility strives to provide people with equal access to content and services.

Accessibility does not mean that every user needs to have an identical experience.



Ask an expert...

At the launch of the W3C's **Web Accessibility Initiative** (WAI):



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"The power of the web is in its universality.

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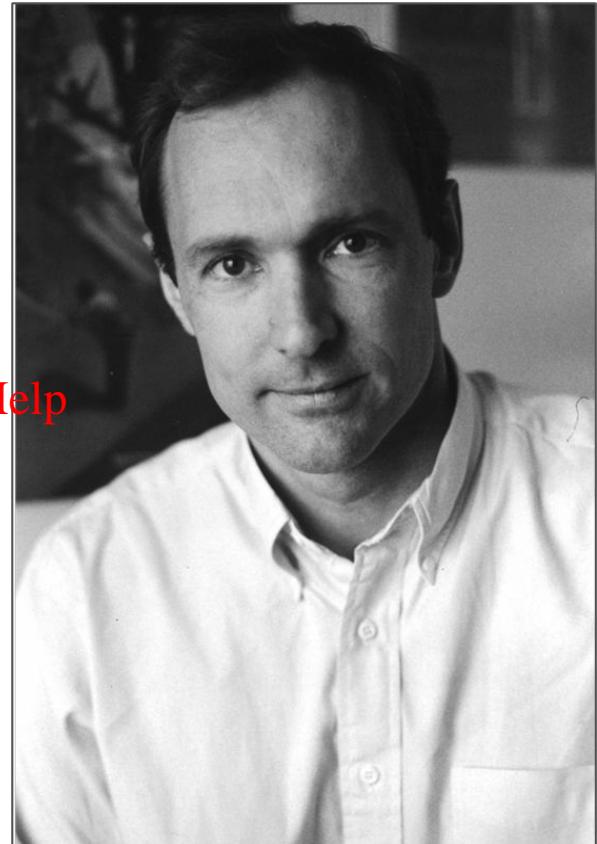
*Access by everyone regardless of disability is
an essential aspect."*

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- Sir Tim Berners-Lee, 1997

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Compared to "usability"

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Similar approaches and goals, but not the same thing!



- **Usability - the degree to which something is designed for a specific use.**
 - **Goal:** efficiency, effectiveness and satisfaction for a defined group of users -
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not necessarily all users.
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- **Accessibility - the degree to which a system is usable by as many people as possible without modification.**
 - **Goal:** equality of access and removal of barriers to access based on personal, technical or environmental limitations - including disabilities.

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Who is affected by disability?

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Over 4.4 million people in Australia have a disability (2018)

- 18% of men and women
- 50% aged 65 and over have two or more disabilities
- 13% of working age (15-64) have a disability



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For people with a disability:

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Health conditions can be hereditary, or can be acquired from an illness or injury.

Some types of disabilities and impairments

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Sensory

- Blindness
- Low vision
- Colour blindness
- Hearing loss
- Deafness
- Hypersensitivity

Motor



- Spina bifida
- Muscular dystrophy
- Repetitive strain injury
- Tremors and spasms

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injury

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Cognitive

- Dementia
- Dyslexia
- Attention Deficit Disorders
- Downs syndrome
- Autism

Technologies such as the World Wide Web can remove barriers to communication and interaction that many people face in the physical world.

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Accessibility problems are design problems

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“Disability is not just a health problem.

It is a complex phenomenon, resulting from the interaction between features of a person’s body and features of the society in which he or she lives.”

person’s body and features of the society in which he or she lives.”

- World Health Organisation

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designers create interactions that <https://tutorcs.com>

exceed the abilities of users.

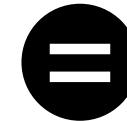


Disability



Personal Health Condition

Disability



Mismatched Human Interactions

Other impairments and limitations

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There are many reasons why people may be experiencing varying degrees of auditory, cognitive, physical, speech or visual limitation.



Limited Motor Control



Arm injury



New parent

Limited Vision



Cataract

Limited Hearing



Ear infection



Bartender

Limited Speech



Laryngitis



Heavy accent

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By designing for someone with a permanent disability, someone with a temporary impairment or situational limitation can also benefit.

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Accessibility Principles for the Web

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The Web enables opportunities for access

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Bruce Maguire browses the Web with assistive devices:

- Refreshable braille display
- Screen reader

Also note:

- Choice of device
- Keyboard input

Legal implications and obligations

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The Australian government has endorsed the Web Content Accessibility Guidelines 2.0 for ALL government websites



- <https://info.australia.gov.au/accessibility.html>

Australian Disability Discrimination Act 1992

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USA has Section 508 of the Workforce Rehabilitation Act

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- Electronic and information technology that is developed or purchased by all Federal Agencies must be accessible by people with disabilities.

Bruce Maguire vs SOCOG

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Australia was the first country to have its discrimination laws tested in this area:

Maguire v SOCOG in 1999.



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SOCOG's defense was that compliance would be an "insuperable hardship"

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- Maguire asserted that significant parts of the Sydney Olympic Games website were inaccessible to him.
- This is the only real defense allowed by the Disability Discrimination Act
- SOCOG estimated that 1 person working 8 hours days would require 368 days to make the website accessible, at a total cost of \$2.2 million
- Expert witnesses estimated that the work could be done in about 4 weeks at a cost of around \$30,000

Components of accessible design

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W3C software accessibility guidelines

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Accessibility goes beyond ensuring website content is accessible. Tools used to create and access websites must be compatible.



Authoring Tool Accessibility Guidelines (ATAG)

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- Help developers create tools that promote production of accessible content.
- Make tools themselves accessible so that anyone can create content.

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User-agent Accessibility Guidelines (UAAG)

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- Explain how to make accessible software for people with disabilities.
- Ensure that web browsers work with assistive devices.

W3C and Web content design guidelines

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Accessible Rich Internet Applications (WAI-ARIA)

- Attributes that can be added to HTML to identify interface element roles.
- Accessible reporting of DOM changes and page updates via JavaScript APIs.



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Web Content Accessibility Guidelines (WCAG) 2.1

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- Principles that allow common accessibility issues to be classified.
- Guidelines that set basic goals for developers to work towards
- Success criteria that are used to test conformance at various levels
- Techniques defining methods that can be used to meet success criteria

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ARIA for dynamic elements

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Dynamic scripted interactions require more work to ensure that changes occurring within a web page can be reported to user-agents.



The **Accessible Rich Internet Applications (ARIA)** standard uses attributes set using HTML and JS to report the current and changed states of elements to the browser.

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```
<div id="menubtn" aria-haspopup="true" aria-controls="navmenu"  
aria-expanded="true">
```

Menu
</div>

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```
<nav id="navmenu" role="menu" href="https://tutorcs.com" id="menubtn">  
  <a href="page1.html" role="menuitem">Page 1</a>  
  <a href="page2.html" role="menuitem">Page 2</a>  
</nav>
```

WCAG Principle: Perceivable

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Perceivable information and user interface



- Text alternatives for non-text content.
- Captions and other alternatives for multimedia.
- Content can be presented in different ways.
- Design content that is easy to see and hear.
- UI controls should have text labels that describe their purpose.

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TLDR

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Can a person use their available senses to detect the content?



WCAG Principle: Operable

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Operable user interface and navigation



- Functionality is available from keyboard.
- Users have enough time to read and use the content.
- Content does not cause seizures and physical reactions.
- Users can easily navigate and determine where they are.
- Users can use different input modalities beyond keyboard.

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Can a person execute the required interactions easily?



WCAG Principle: Understandable

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Understandable information and user interface



- Text is readable and understandable.
- Content is presented in predictable ways.
- Navigation and controls work in predictable ways.
- Users are helped to avoid and correct mistakes.

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Can users mentally process and interpret what they have perceived?



WCAG Principle: Robust

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Robust content and reliable interpretation



- Content is compatible with current and future user tools.
- The purpose of each interface element should be programmatically determinable.
- Assistive technologies are made aware of changing status that updates in the page.

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Can browsers and assistive technologies process the site correctly?



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Practical Web Content Accessibility Techniques

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Provide meaningful text for image content

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The Free Encyclopedia

English

5 392 000+ articles



Español
1 330 000+ artículos



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```

```

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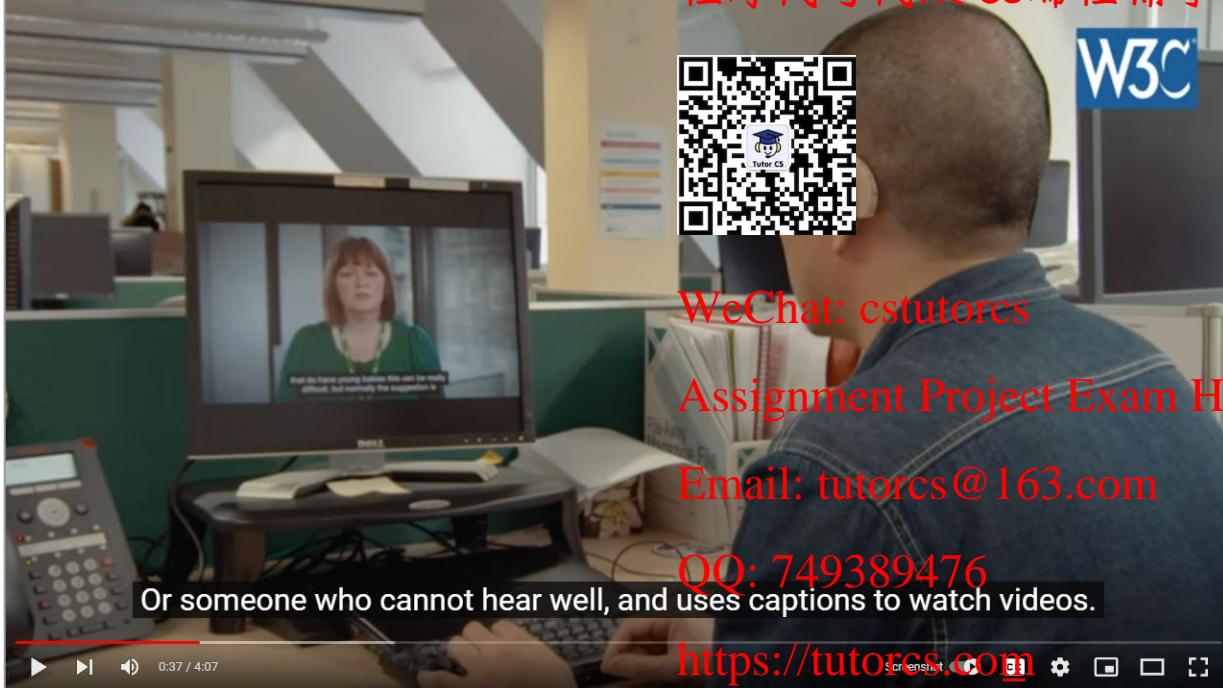
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```
<div id="hplogo" title="Google">  
    <div class="hplogo-subtext">  
        Australia</div></div>
```

Use **alt** attributes to describe images. Use **title** attributes to describe other elements, providing equivalent [visual elements](https://tutorcs.com). This also displays a tooltip during mouse interactions.

Captions and transcripts

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Above: Captioned videos provide multiple benefits for different users.

Right: A text transcript for media provides flexibility of **transformation**.

SBS NEWS IN EASY ENGLISH
SBS News in Easy English
bulletin 25 January 2022

A daily 5 minute news wrap for English learners.

Published on Tuesday, January 25, 2022 - 13:47 File size 11.06 Duration 6 min 2 sec

[Tweet](#) [Recommend 0](#)

TRANSCRIPT

Welcome to SBS News in Easy English.
My name is Marcus.
Coronavirus restrictions in New South Wales have been extended for another month.
The state recorded 1,000 new COVID-19 cases and 18,320 total cases.
Some 2,842 people are in New South Wales hospitals with the virus, including 182 in intensive care.
Premier Dominic Perrottet says extending restrictions will allow elective surgeries to resume in mid-February, the return to school to go smoothly, and for more people to get their booster shot.
"Those restrictions that will be rolling over for this period include density limits of two square metres, wearing face masks in public, and singing and dancing in hospitality venues. These measures are proportionate, but particularly you know taking a cautious approach as we move through and really focus on getting kids back in the classroom on the first day of school this year in a safe way, and as well, making sure that we get that non-urgent elective surgery back."

Victoria is launching a campaign to assist people at home with mild COVID-19 symptoms.
Part of the campaign will remind people that triple-zero calls are for emergencies, not for mild symptoms.
As of yesterday, Victoria reports 29 additional COVID deaths, 14,836 new cases and 1,057 people in hospital, with 119 in the ICU.

Health Minister Martin Foley says it's hoped the campaign will relieve the pressure on emergency services and hospitals.
"The program is called the 'Get the right help for your recovery' campaign, and it will support people experiencing mild symptoms by providing them the support and education they need on measures such as how to rest, how to keep cool, and how to deal with pain relief so they can feel confident and secure in managing their pathway to recovery at home."

Queensland has recorded 11 COVID deaths and 9,546 new cases.
There are 928 people in hospital with the virus, up from 878 yesterday.

Avoid common text readability mistakes

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Loremm ipsum dolor****



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Good legibility

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Poor spacing

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Poor contrast

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LOREM IPSUM DOLOR SIT AMET

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Suspendisse nulla urna, faucibus ac venenatis vitae, euismod sed felis. Aliquam erat volutpat. Sed ipsum justo dictum. Integer arcu quam, sollicitudin mi. In gravida facilisis ultricies. Phasellus quis varius condimentum diam. Phasellus ut mattie audire, id aliquam scilicet

Poor typeface choice

Design interactions that are easy to complete

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Input devices and user ability affect interaction accuracy.

Touch input is increasingly common but less accurate than mouse input.



Google and Apple recommend a minimum touch target sizes of 40-50px

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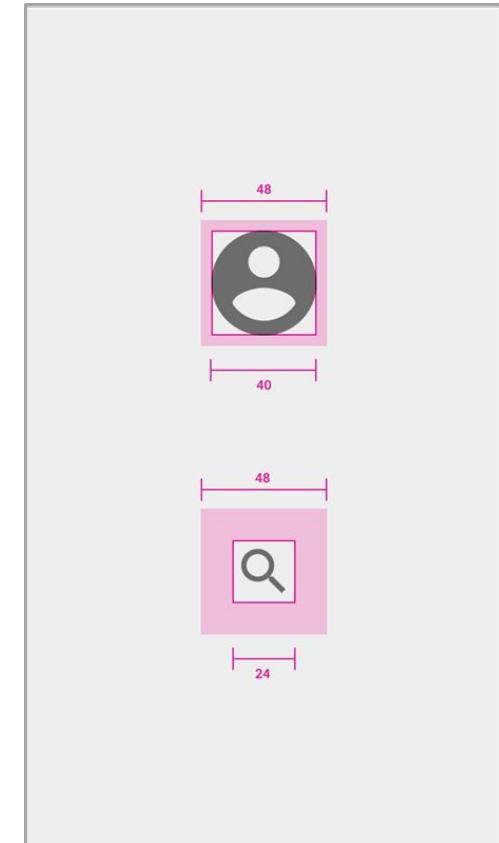
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- Approx. 7-10mm required for finger input
- Avoid timed interactions
- Avoid overriding familiar controls



Proper form field labelling

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A label that is correctly associated with a form field not only helps describe the field (aiding understandability), but also increases the input's hit area:



```
<input type="checkbox" id="subscribe" value="yes" />  
<label for="subscribe">I want to receive spam</label>
```

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I want to receive spam

Combined clickable/tappable interaction area

Language and reading level

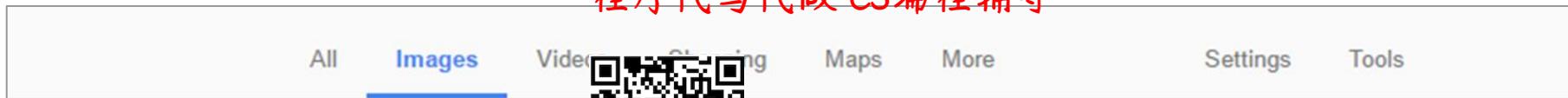
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Polski العربية	Deutsch English	Español Français	Italiano يَهُوْمَ	Nederlands 日本語	Português Русский	Sinugboanong Sesotho	Svenska Sesotho	Tiếng Việt Winaray	中文	1 000 000+ articles											
Afrikaans Slovenčina Asturianu Azərbaycanca	Български Bán-lám-gú / Hō- ló-oé وازنا	Беларуская Català Čeština Cymraeg	Dansk Eesti فارسی Esperanto	Εύσκara Galego هَنْدِي	Հայերեն Hrvatski Гръцки Esperanto	શાહીર્પણ Bahasa Indonesia બাংলা	સુન્ગોબાંગ સેથોથો	સ્વેન્ઝા સેથોથો	ચિંગ્વિય વિનારાય	100 000+ articles	Bahaso Minangkabau Norsk (bokmål · nynorsk)	匈奴ийн O'zbekcha / Ўзбекча	Қазақша / Qazaqsha / شاشەرچىخى Română Simple English	Slovenščina Српски / Srpski Srpskohrvatski / Српскохрватски	Suomi தமிழ் Tatarica / Tatarça ไทย	Тоҷикӣ ئەڭزۇرى تاتارچا / تاتارقا اردو	Volapük 寒語 ଓঁজিলুক্কু				
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Aragonés Basa Banyumasan Башкортса	বিজুলিমা মাণিপুরী Boarisch	Emigliān- Rumagnól	Gáidhligh Hausa	Ирон аэзар Íslenska	کوردی Kurdî / کوردى	Interlingua Lombard	માયારી માયારી	માનગ્લ	1 000+ articles	Plattdüütsch Qırımtatarca Napulitano	પ્રિમાની પાનારી નપારી	Qırımtatarca Sicilianu Runa Simi	Tagalog Walón	Walon ଓঁজ	isiZulu						
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Արմենիական Արմանաշե	Ասկան Burrad Chavacano de Dolnoserbski	Այմար Burrad Chavacano de Dolnoserbski	Էրզյան Zamboanga	Էրզյան Corso Estremenu	‘Olelo Hawai’i Gagauz Хальмг	Dzudzemo / ‘Olelo Hawai’i Igbo	କାନ୍ଦାଙ୍ଗ କାନ୍ଦାଙ୍ଗ କାନ୍ଦାଙ୍ଗ	Luganda ଲାଙ୍କୁ ଲାଙ୍କୁ	1 000+ articles	Лингାଳ ଲାଙ୍କୁ ଲାଙ୍କୁ	Novial ଓ'နିଆ Reo Māohi	Picard ଓ'নିଆ Dorerin Naoero	Gagana Sāmoa କ୍ଷେତ୍ରିକ ମାନାରୀ	Taqbaylit ତାବାଇତ Sardu କ୍ଷେତ୍ରିକ ମାନାରୀ	Tarandíne ତାବାଇତ Sardu କ୍ଷେତ୍ରିକ ମାନାରୀ	تۈركى تۈركى تۈركى تۈركى تۈركى					
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Providing an option for every language isn't always feasible. Instead, provide content as text so that users have maximum flexibility to transform the content themselves.

Design navigation that helps users understand

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A screenshot of the Amazon Fashion website. At the top, there is a navigation bar with categories: "Amazon Fashion", "WOMEN", "MEN", "GIRLS", and "BOYS". Below the navigation bar, there is a QR code with the text "Tutor CS" next to it. The main content area shows a breadcrumb path: "Clothing, Shoes & Jewelry > Women > Accessories > Sunglasses & Eyewear Accessories > Sunglasses".

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Shop and Learn	Apple Store	For Education	Account	About Apple
Mac	Find a Store	Apple and Education	Manage Your Apple ID	Apple Info
iPad	Genius Bar	Shop for College	Apple Store Account	Newsroom
iPhone	Today at Apple		iCloud.com	Job Opportunities
Watch	Apple Camp	For Business	Apple Values	Press Info
TV	Field Trip	Apple and Business	Accessibility	Investors
Music	Apple Store App	Shop for Business	Education	Events
iTunes	Refurbished and Clearance		Environment	Contact Apple
iPod	Financing		Inclusion and Diversity	
Accessories	Reuse and Recycling		Privacy	
Gift Cards	Order Status		Supplier Responsibility	
	Shopping Help			

Navigation should use familiar techniques to increase users' understanding.

Design flexibly for different devices

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The screenshot shows the GitHub homepage with a dark blue background. In the center is a large, glowing blue globe with a network of pink lines. A small cartoon character wearing a graduation cap and holding a diploma is standing on the globe. To the left, the text "Where the world builds software" is displayed in large white letters. Below it, a paragraph states: "Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world." At the bottom left is a sign-up form with fields for "Email address" and a green "Sign up for GitHub" button. At the bottom right, there are statistics: "73+ million Developers", "4+ million Organizations", "200+ million Repositories", and "84% Fortune 100".

Why GitHub? Team Enterprise Explore Marketplace Pricing

Search GitHub Sign in Sign up

Where the world builds software

Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.

Email address Sign up for GitHub

73+ million Developers 4+ million Organizations 200+ million Repositories 84% Fortune 100

Build like the best with GitHub Enterprise

Take collaboration to the next level with security and administrative features built for teams.

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Etsy stripe 3M

The screenshot shows the GitHub homepage on a mobile device with a dark blue background. It features the same globe and character as the desktop version. The text "Where the world builds software" is at the top. Below it, a paragraph states: "Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world." There is a sign-up form with fields for "Email address" and a green "Sign up for GitHub" button. At the bottom, there are statistics: "73+ million Developers", "4+ million Organizations", and "84% Fortune 100".

Where the world builds software

Millions of developers and companies build, ship, and maintain their software on GitHub—the largest and most advanced development platform in the world.

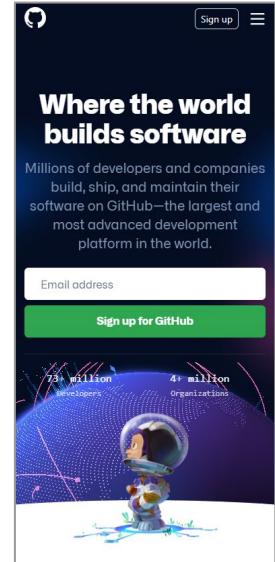
Email address Sign up for GitHub

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Provide alternatives by default

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HTML is designed with fall-back capabilities to allow alternative content options.



```
<video width="640" height="360" controls>
  <source src="movie.webm" type="video/webm" />
  WeChat: cstutorcs
  <source src="movie.mp4" type="video/mp4" />
  Assignment Project Exam Help
  <source src="movie.ogv" type="video/ogg" />
  Email: tutorcs@163.com
  <a href="movie.mp4">
    
  </a>
  https://tutorcs.com
</video>
```

Use web standards and validate your code

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Web standards will continue to evolve and change:

- HTML (W3C standard)
- CSS (W3C standard)
- JavaScript (ECMA standard)



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Browser and website developers have a responsibility to implement support for
standards for maintain broad compatibility.

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- Old versions of HTML, CSS and JS continue to work in new browsers
- HTML5 and CSS3 has fallback features for compatibility in old browsers
- **Some features of new JS may fail and break scripts in old browsers**

Next week

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- Learn about the JavaScript language
- Practice using JavaScript in browser and webpages



Assignment 3 brief is now available

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- Website construction using a template
[Assignment](#) [Project](#) [Exam](#) [Help](#)

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- Assignment 2 is due on Friday at 11:55PM
 - Resize your website mockup image to a width of 1280px.
 - Separate submission uploads for the mockup image and report.