



Let's talk about: **Accessibility**

by Junior Developer Group



WHAT IS MEANT BY ACCESSIBILITY IN WEB DEV

Accessibility is the practice of making your websites usable by as many people as possible.

QUICK TIP



We traditionally think of this as being about people with disabilities, but the practice of making sites accessible also benefits other groups such as those using mobile devices, or those with slow network connections



SOME TYPES OF ACCESSIBILITY FEATURES

- Visual / Design focused
- Screen Reader focused
- Device focused
- Performance focused



Visual : Design focused 1/2

- appropriate colour contrasts with text and backgrounds
- appropriate element locations/placements
- carousel/scroll indicators
- placeholders for input fields
- proper use of buttons vs hyperlinks
- Information icons offering instructions

QUICK TIP



Although similar-looking, buttons and hyperlinks should be used in different situations and should behave differently in different states

Forgotten password?
(link)

Join now
(button)



Visual : Design focused 2/2

- Making sure our content is accessible to users using the keyboard to browse through content
- Awareness of cognitive impairments our users might face
- Awareness of struggles people with dyslexia might face
- Awareness of seizures for people with various brain disorders and photosensitive epilepsy

QUICK TIP



Photosensitive epilepsy
can in worst case
scenario be fatal!

There is a CSS property
called 'prefers reduced
motion' - take a look!



LET'S LOOK AT SOME EXAMPLES



GOOD EXAMPLE: BUTTONS VS HYPERLINKS

Get in the driver's seat and get paid

Drive on the platform with the largest network of active riders.

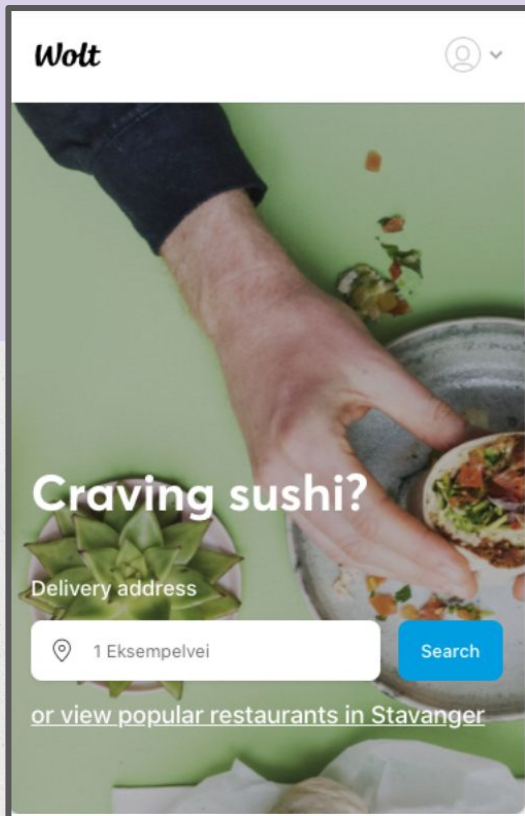
Sign up to drive

[Learn more about driving and delivering](#)





BAD EXAMPLES: FONTS AND CONTRASTS



Example 2: (12pt Font, 13pt Line Height - Low Contrast)

The hallway smelt of boiled cabbage and old rag mats. At one end of it a coloured poster, too large for indoor display, had been tacked to the wall. It depicted simply an enormous face, more than a metre wide: the face of a man of about forty-five, with a heavy black moustache and ruggedly handsome features. Winston made for the stairs. It was no use trying the lift. Even at the best of times it was seldom working, and at present the electric current was cut off during daylight hours.

Example 2: (12pt Font, 13pt Line Height - Low Contrast)

The hallway smelt of boiled cabbage and old rag mats. At one end of it a coloured poster, too large for indoor display, had been tacked to the wall. It depicted simply an enormous face, more than a metre wide: the face of a man of about forty-five, with a heavy black moustache and ruggedly handsome features. Winston made for the stairs. It was no use trying the lift. Even at the best of times it was seldom working, and at present the electric current was cut off during daylight hours.

I have been an occasional student of fonts ever since when I designed a font for an organisation. I have also watched with interest fonts aimed at dyslexic people. All these fonts are aimed at improving the visual readability of printed text, and we have come to take for granted the efforts of font designers. To put their efforts into some relief, I thought to make a font that sets out to be very difficult to read. We have grown used to having a number of features common to any particular family of fonts. For example, curves are common, the visual bulk of lower case letters tends to avoid the top edge, upper case letter usually have a stronger presence on the top edge, each occurrence of a letter looks exactly the same every time. The task was to design a font that turned as many of these features as possible on their head.



BAD EXAMPLES: COGNITIVE (OVER)LOAD

The screenshot shows the Lykki.com homepage, which is cluttered with numerous navigation elements and promotional banners, contributing to cognitive (over)load. The top navigation bar includes a blue banner with the text "LEARN MORE > FREE DELIVERY + NO MINIMUM ORDER + FREE RETURNS = SMILES < LEARN MORE >". Below this, the Lykki.com logo is prominently displayed. To the right of the logo, there are buttons for "Create New Account" and "Log In Now", along with links for "My Account", "Contact Us", "Help", and "About Us". A search bar is located below the logo, with the placeholder text "What does your business need?" and a "Search" button. To the left of the search bar, there is a blue bin filled with various office supplies. Below the search bar, there is a horizontal menu with categories: Office Supplies, Ink & Toner, Paper & Pads, Filing & Storage, Work Tools, Furniture, Coffee, Water & Snacks, Cleaning & Janitorial, and Printing & Stamps. To the right of the search bar, there is a red button for "CHECKOUT" and a blue button for "Free Samples". Below the horizontal menu, there are several promotional banners: "savings centre", "mylists", "what's new", "free delivery With No Minimum Order", and "Flash order". On the left side, there is a "SHOP BY" section with a "CATEGORY" list: Office Supplies (8388), Ink & Toner (979), Paper & Pads (819), Filing & Storage (1252), Work Tools (1061), Furniture (1106), Coffee, Water & Snacks (2037), Cleaning & Janitorial (1085), Printing & Stamps (0), and Savings (57). A "chat with us!" button is located at the bottom left. In the center, there is a large banner for "Caribeans coffee roasters" with the text "Get to know our new locally roasted coffee blends, exclusive to Lykki!" and a "SHOP CARIBEANS COFFEE >>" button. To the right of the banner, there is an image of a bag of Caribeans Coffee. At the bottom, there is a horizontal menu with categories: Office Supplies, Ink & Toner, Paper & Pads, and Filing & Storage.



Screen Reader Focused

- Indicating the spoken language website text is written in
- Using ALT text on images that require it
- Using semantic HTML elements
- Using ARIA attributes to describe elements that can't use semantic HTML, indicate a role of the element or indicate 'required' status
- Using autocomplete attribute in a correct way

QUICK TIP



Screen readers are available for all devices natively but you're also able to download/install extra extensions.

It is always advisable to human test our website rather than blindly trusting tools such as LightHouse



LET'S LOOK AT SOME EXAMPLES



BAD EXAMPLES: MISSING ALT TEXT





Device Focused

- Appropriate spacing between elements
- Appropriate responsiveness for all devices
- Appropriate placement of elements
- Appropriate font-sizes and scalable images
- Making sure all content and functionality is available
- Making sure there is no horizontal scrolling

QUICK TIP



When thinking of spacing and appropriate positions for the elements used, think of your own thumbs accessing the website

Do you have to reach far until you access wanted content of the page?

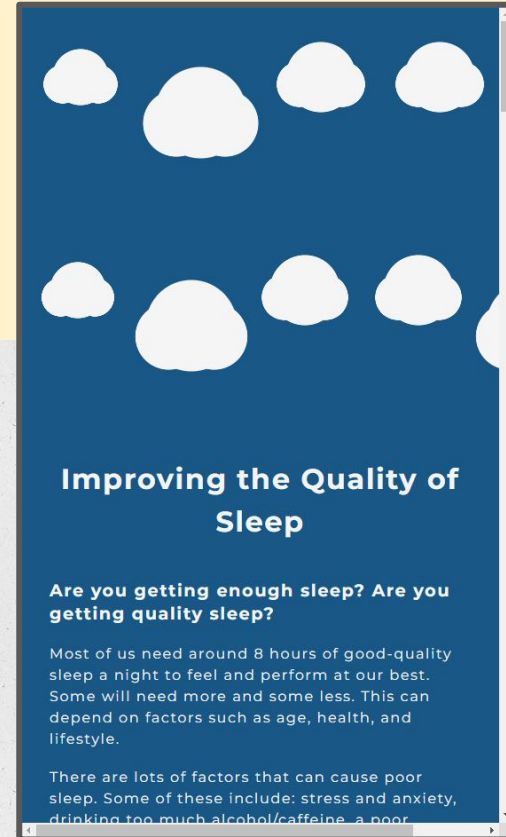
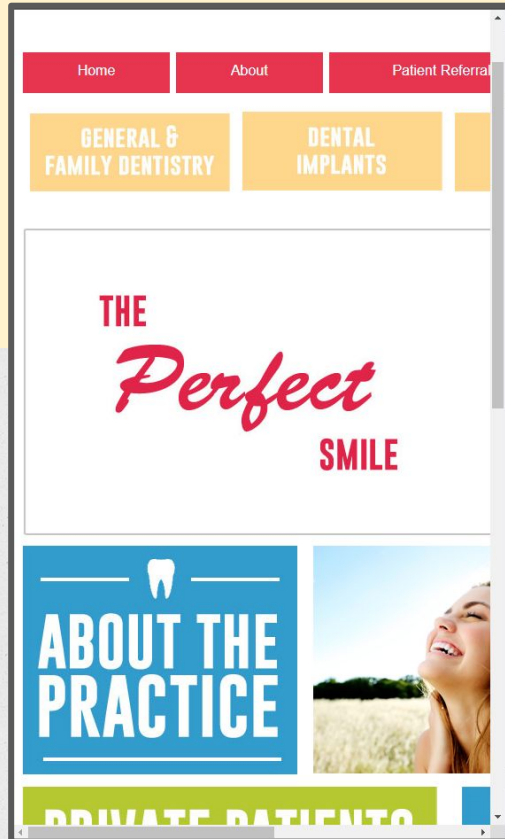
Are buttons too small?



LET'S LOOK AT SOME EXAMPLES

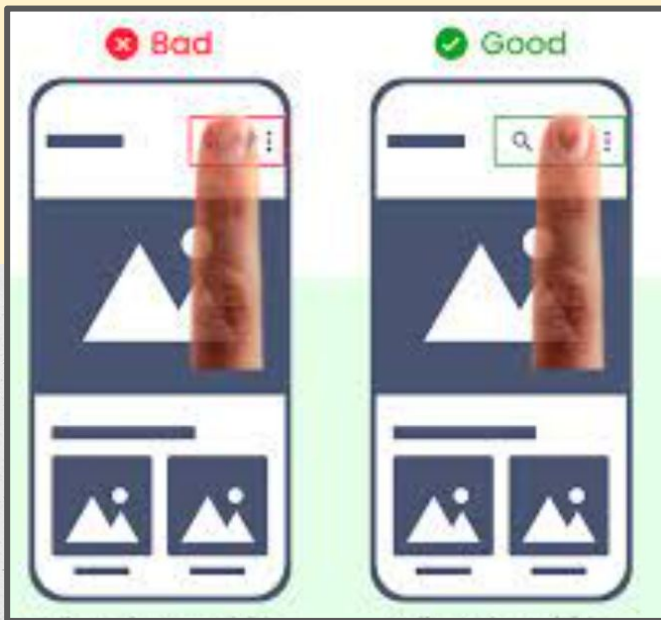


BAD EXAMPLES: NOT RESPONSIVE

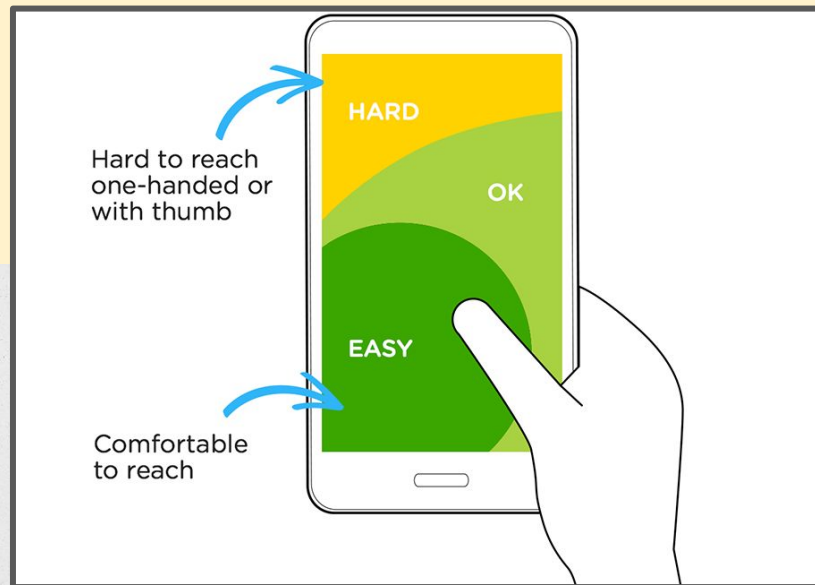




BAD EXAMPLES: ELEMENTS ARE TOO SMALL

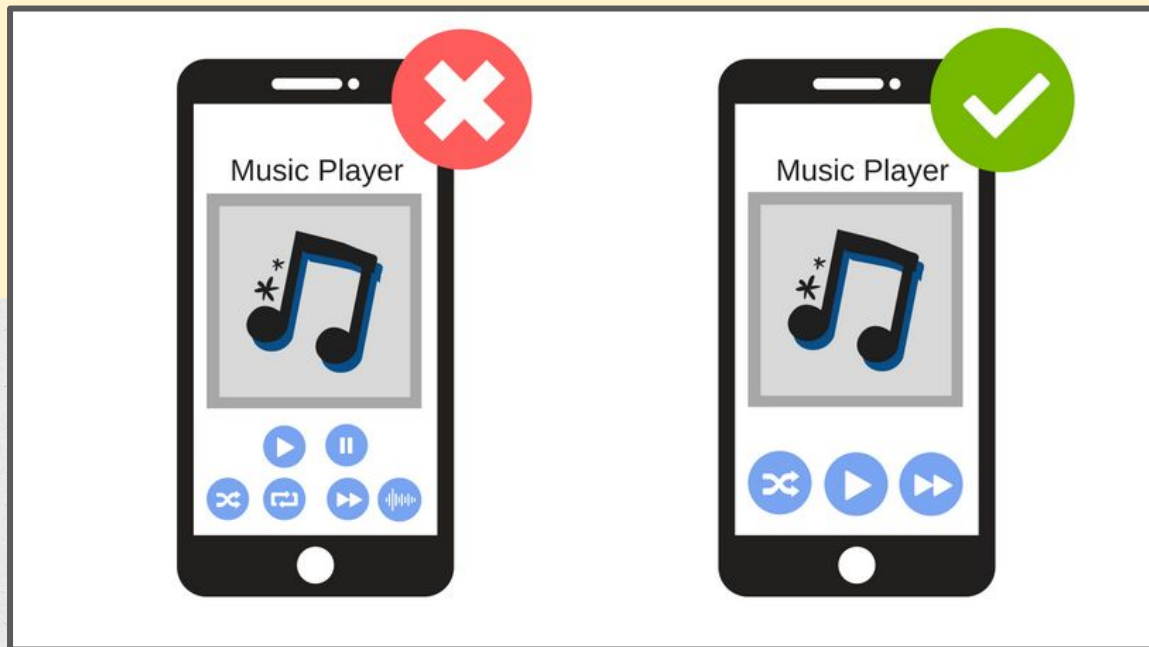


BAD EXAMPLES: ELEMENTS ARE DIFFICULT TO REACH



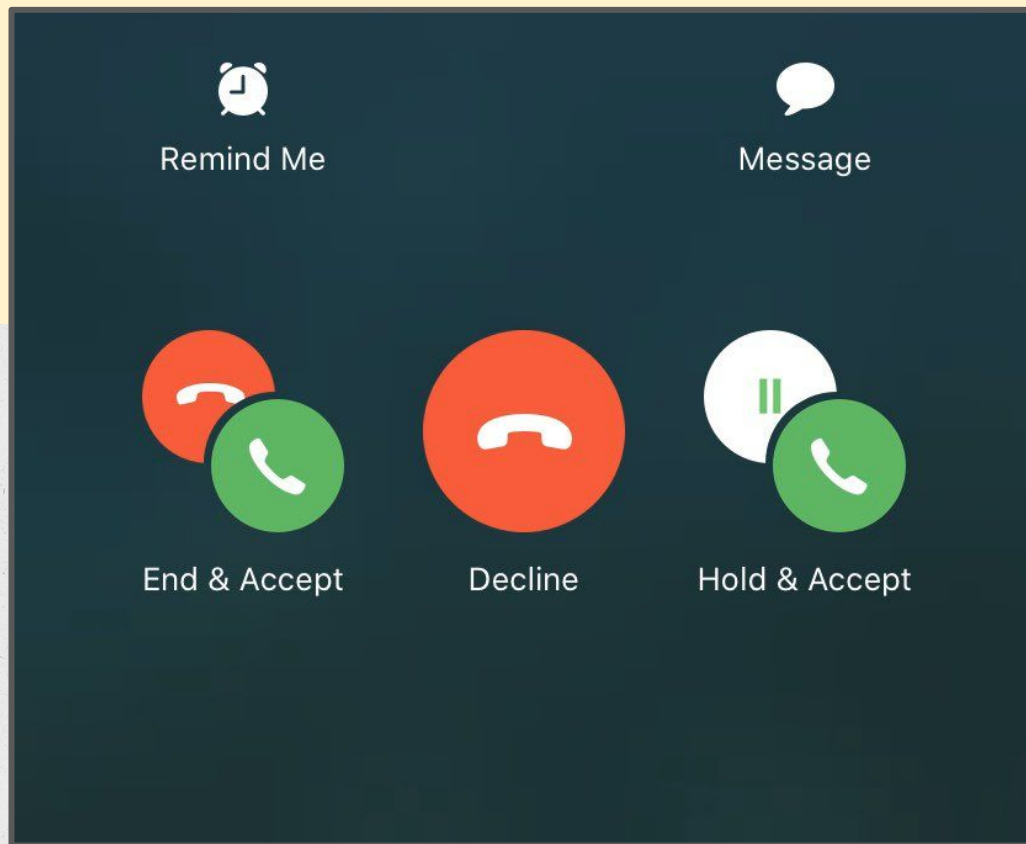


BAD EXAMPLES: TOO MANY ICONS





BAD EXAMPLES: ACTION IS NOT CLEAR





Performance (Network) Focused

- Appropriate load times for slow internet connection (3G)
- Lazy loading of multimedia used (images, video & audio materials)
- Reduced numbers of scripts and stylesheets used on the first load
- Reduced results returns when adding search functionalities, or listing pages through pagination
- Only using preloading for most critical resources

QUICK TIP



Remember, chrome (and probably other browsers) can emulate different network speeds for testing purposes

We also have 'network' tab inside of inspector which can be helpful when trying to find out which resources take up a lot of time to load



LET'S LOOK AT SOME EXAMPLES



BAD EXAMPLES: LONGER LOAD TIMES

Secondary dimension ▾		Sort Type: Default ▾		<input type="text"/> 🔍 advanced						
Continent		Page Views ▾ ↓		Avg. Page Load Time (sec) ▾ (compared to site average)						
		33,101 % of Total: 100.00% (33,101)		3.79 Avg for View: 3.79 (0.00%)						
1.	Americas	11,373		-29.81%						
2.	Asia	10,980								
3.	Europe	9,289		-3.17%						
4.	Africa	759								
5.	Oceania	546								
6.	(not set)	154								

🎉 QUIZ TIME 🎉





PREPARE A PEN & PAPER PLEASE





**POST YOUR ANSWERS INSIDE OF
#CHATTER CHANNEL**





**.. AND KEEP COUNTING YOUR POINTS
(pen & paper)**





LET'S GO!



Semantic HTML?



**1 point for correct
-1 point for incorrect**

```
<div>Report an Error</div>
```



Good hyperlink text?



**1 point for correct
-1 point for incorrect**

[Click here](#)

[Read more..](#)

Buy tickets to Mars [here](#)



- ☐ People with a broken arm
- ☐ People with a heavy accent
- ☐ People with hearing loss

**Audio and Video captions
will mostly benefit...**



**1 point for correct
-1 point for incorrect**



**Hamburger icon should be a:
<buton> or <a>**



**Bonus points:
What are we using at the moment?**


**1 point for correct
-1 point for incorrect**



< ☰ **Pay My Bill**

Enter account information

Billing ZIP
ZIP code



What is wrong with the input field?



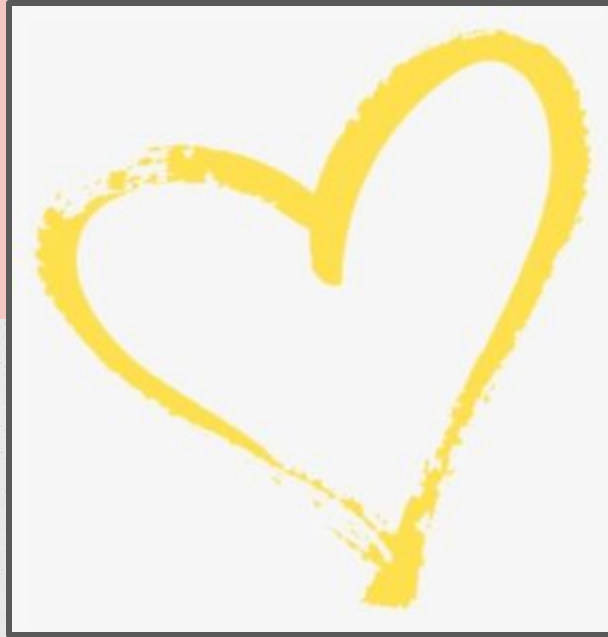
1 point for correct
-1 point for incorrect



How many points have you scored?



THANK YOU FOR JOINING TONIGHT



created by: Likii

**Used as a guide for
Junior Developer Group**