

TABLE OF CONTENTS

O1 Introduction

02

Fundamentals of Web Design

03

Web Accessibility

04

Loading Speed and Performance

05

Interaction of the User

06

Evolution and Continuous Improvement

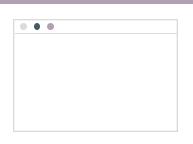


01

INTRODUCTION

Importance of web desing and interaction





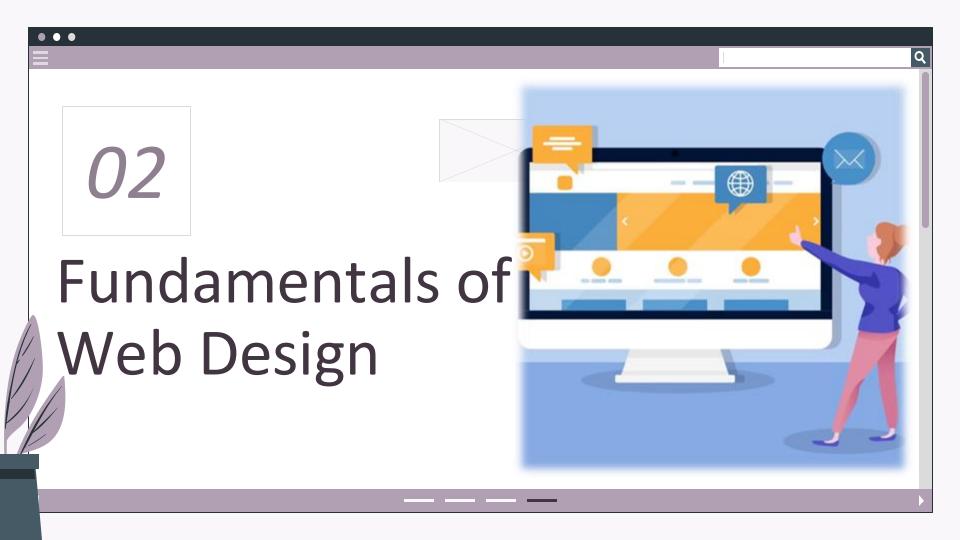
Importance of Web Design

In today's digital age, websites have become essential tools for businesses, organizations, and individuals to connect with their audience. The design and interaction of these websites play a crucial role in determining their success



Why Is It So Important?

Brand Identity	A website's design is often the first impression users have of a brand.
Accessibility	Proper design ensures that websites are usable by people
User Experience (UX)	Good design and intuitive interactions create a positive user experience
Information hierarchy	Good design helps organize and present information in a logical, easy-to-navigate manner.
Performance	Efficient design and interactions contribute to faster load times and smoother navigation.
Competitive Advantage	In a crowded digital landscape, superior design and interaction can set a website apart from competitors.



Visual Hierarchy, Consistency, Spacing and Aligment

Visual Hierarchy

How the user perceives the importance.

– <u>Size</u>

- Positioning
- Color
- Contrast

Consistency

Goal: achieve cohesive user experience

- Typography
- Patterns
- Buttons

Spacing and Aligment

In order to achieve aesthetics and readability

- Clean design
- Balanced design



. . .

Visual Hierarchy

- How the user perceives the importance.
- Guide users through the website
- Positioning, color, contrast, size.









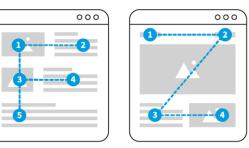
- Achieve cohesive user experience
- Familiar elements that appear repeatedly through the website
- Typography, patterns, colors...

F-Pattern

. . .

Z-Pattern

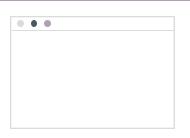




Interaction Design Foundation interaction-design.org



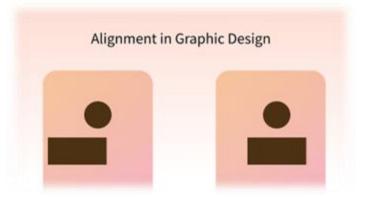
А



Spacing and Aligment

- Achieve a clean and organized design by including white spaces properly
- Achive balanced and profesional design by aligning text and elements







In this day and age web pages have millions of users

Everyone with their own problems and limitations.

For example:

- Color blindness
- Deafness
- 3. Vision Problems
- 4. Cognitive Disabilities











When we want this type of people to have access to our website is when we consider the concept of accessibility.



So... What is accesibility??

It is providing these users with a solid experience, a experience that takes into account their context and disabilities whether they are situational, temporary or permanent.



5% of users have color-blindness



20% of users have visual problems



5% of users have hearing problems



15% of users have cognitive problems

4

The range is broader than we might initially think!!!!



Here are some of the main points we can keep in mind to make a website more accessible for all users :)



Well organised structure and navigation

• Good use of html semantics help users to get more familiar with the web functionalities and help screen readers used by blind people

<h1>Navigation Demo</h1>

Home<a href=/about-us aria-current="page"About us
<a /contact>Contact
Pricing





Navigation Demo

- Home
- Contact
- Pricing

Well organised structure and navigation

• Good use of html semantics help users to get more familiar with the web functionalities and help screen readers used by blind people

```
<h1>Navigation Demo</h1>
<u1>
 <1i>>
    <a href="/home">Home</a>
 <1i>>
   <a href="/about-us" aria-
current="page">About us</a>
 <1i>>
   <a href="/pricing">Pricing</a>
 <
   <a href="/contact">Contact</a>
```



Navigation Demo

Home About us Pricing Contact



Good use of color

- Good color contrast
- Good palete
- · Customization or Color blind filters
- Avoid transmiting information just with color

Contrast ratio

4.27:1

3.16:1

2.31:1

1

1.72:1

1.3:1

The quick brown fox jumps over the lazy dog again

THIS
IS GOOD
CONTRAST

THIS IS BAD CONTRAST

P



• •

Appropriate Typography

- Adapt size to users age and necessities
- Use a readable typography
- Give a customize option



Comic Sans: bad dad on no Illinois

Verdana: bad dad on no Illinois

bad dad on no Illinois

Helvetica:

Aguafina Script: bad dad on no Illinois

Cincial Anciqua: bad dad on no Illinois

Henny Penny: bad dad on no Illinois

BERKSHIRE HATHAWAY INC. 3555 Farnam Street Omaha, NE 68131

- A Message from Warren E. Buffett
- Annual & Interim Reports
 Updated April 30, 2022
- Link to SEC Filings
- Special Letters from Warren & Charlie RE:Past, Present and Future
- · Links to Berkshire Subsidiary Companies
- Corporate Governance

. Washinking Andrews

- Sustainability
- Information Regarding Warren E. Buffett's Annual Contributions to Five Foundations

- News Releases from Berkshire Hathaway and from Warren Buffett Updated April 30, 2022
- Annual Meeting Information

 Introduction 22 2022
- Berkshire Hathaway Energy 2021 Investor Presentation
- Warren Buffett's Letters to Berkshire Shareholders Updated February 26, 2022
- Charlie Munger's Letters to Wesco Shareholders
- Celebrating 50 Years of a Profitable Partnership (A commemorative book first sold at the 2015 Amenal Meeting and now for sale on ellay)
- Common Stock Information
- Facts Regarding Berkshire's 2021 Investments in Activision Common Stock

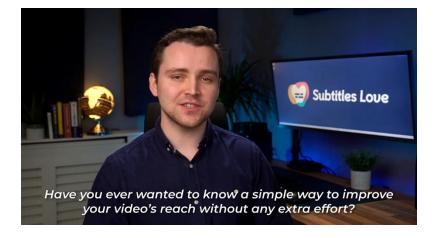
Ш.

Enriched Multimedia

- Avoid too dinamic or blink multimedia
- Use images with descriptions and subtituled videos



Bandstand in modernist style, inside [□] the fair circle. (1912)



≡

Make all options accessible via keyboard

Some users are unable to use a mouse due to tremors, paralysis, use of assistive technologies... Tab is their best friend !!!





Navigation Demo



Is important to reflect it clearly on the web!!

4

Q |

04

Loading Speed and Performance



Loading Speed and Performance

Introduction to Speed and User Retention **Optimizing for Speed Core Metrics to Track Impact on Business** Faster sites result in higher Largest Contentful Paint (LCP) **Techniques** conversion rates Companies like Vodafone saw an 8% sales increase by improving Google's Core Web Vitals Interaction to Next Paint (INP) LCP

Fast load times and Core Web Vitals



. . .

Speed

- Is not a single moment but an experience
- Traditional metrics (e.g., load time) don't capture the full experience



Key Metrics

Time to Interactive (TTI)Speed Index





Custom Metrics

- Pinterest's Pinner Wait
 Time
- Simplified reporting with Lighthouse scores



Time to First Byte (TTFB) Optimization







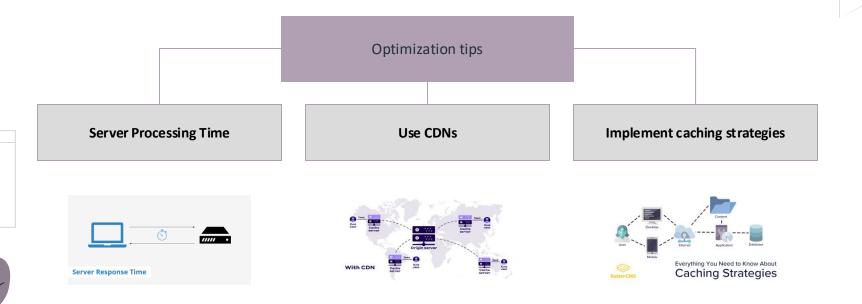
Measures the time from when a user makes a request to when the first byte of data is received.

Lower is better, but does it matter?



TTFB Optimization

. . .



Resource Preloading and Optimization



Code Splitting

Javascript in smaller bundles



Faster page load

Largest Contentful Paint Interactivity





How?

- Webpack

- Rollup



Q

05

User Interaction



Importance of Interactive Elements

Guiding User Behavior

Reducing errors

Visual Cues

Improves user efficiency

Providing Immediate Feedback

Reducing frustration

Microinteractions

Enhance sense of control

Enhancing User Engagement

Navigate Easily

Direct Interaction

Encouraging Exploration



. . .

Best Practices For Elements

Consistency

Keep the design of the elements consistent across the site in terms of color, size, and style

Responsive Layouts

Make sure all elements are easy to interact with enough space

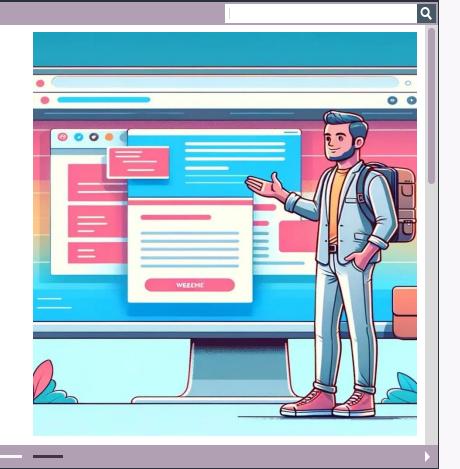
Touch-Friendly Design

Make sure that the elements work well on all screen sizes with responsive design



06

Evolution and Continuous Improvement





Measuring the user interaction of a website

- Measure user engagement: metrics such as clicks, scrolls, page views...
- Then identifying issues (high bounce rates, abandoned shopping carts) and improving UX.



To achieve this, there are platforms that collect data from the websites and apps to create reports that provide insights into your business or organization. One example of this is Google Analytics.

3



The tools to measure user interaction:



1.

CREATE A GOOGLE ANALYTICS ACCOUNT.

2.

ADD A SMALL PIECE OF JAVASCRIPT MEASUREMENT CODE TO EACH PAGE.

3.

PROCESSED INTO REPORTS AND STORED INTO A DATABASE.

WE CAN THEN USE THE INFORMATION
OF THE DATABASE TO IMPROVE THE
WEBSITE IN THE MOST EFFECTIVE WAY

POSSIBLE.

N

Improving a website

The website must be improved after thoroughly analyzing its shortcomings. This will help maintain high user engagement and satisfaction over time.

Iterating (



The digital landscape is constantly evolving.

Iterative approach:

This approach should be repeated the needed number of times, as continuous optimization is an ongoing process that should be embraced to ensure sustainable growth and success online.



BIBLIOGRAPHY

- Koshti, A. (2024, 16 abril). The Role of Visual Hierarchy in Effective Web Design. E2M Solutions. https://www.e2msolutions.com/blog/visual-hierarchy-in-web-design/#:~:text=Visual%20hierarchy%20in%20web%20design%20is%20all%20about%20arranging%20elements,understand%20where%20to%20look%20next.
- Influence, S. (2023, 1 febrero). Developing a strategic and cohesive website for small businesses: A guide to an improved online presence. Social Influence Web And Digital Lab. https://social-influence.co/developing-a-strategic-and-cohesive-website
- Productos y herramientas para el desarrollo web: Google for Developers. (s. f.). Google For Developers. https://developers.google.com/focus/web-development?hl=es-419
- Google Developers. (s.f.). ¿Qué es la velocidad del sitio? https://web.dev/articles/what-is-speed?hl=es-419
- Google Developers. (s.f.). Optimización del TTFB. https://web.dev/articles/optimize-ttfb?hl=es-419
- Google Developers. (s.f.). Reducir las cargas de JavaScript con la división de código. https://web.dev/articles/reduce-javascript-payloads-with-code-splitting?hl=es-419
- Objetivos táctiles accesibles. (2020, 31 marzo). web.dev. https://web.dev/articles/accessible-tap-targets?hl=es
- Conceptos básicos del diseño | web.dev. (s. f.). web.dev. https://web.dev/learn/forms/design-basics?hl=es-419

That's all Folks!