Universal and Intersectional

Design: Exploring Web

Navigation and Accessibility

Garrett Massey

Universal and Intersectional
Design: Exploring Web
Navigation and Accessibility

"it's already hard to find websites I can even access, and I don't need to have something tedious added to it"

About Me

Boston Terrier Enthusiast

Hobby Pianist

<?php

\$like_to_code = TRUE;

?>

Cold Brew Coffee Connoisseur

About Me

Web Designer for New Mexico Tech and University of New Mexico

B.S. in Technical Communication (focus in Computer Science)

7 Years Experience in Web Design

Thesis on Web Navigation and Information Architecture

4 Navigation Structures for Websites:

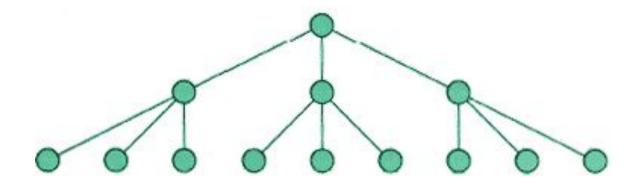
4 Navigation Structures for Websites:

Linear



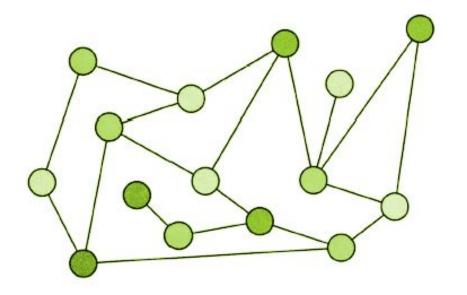
4 Navigation Structures for Websites:

Hierarchical



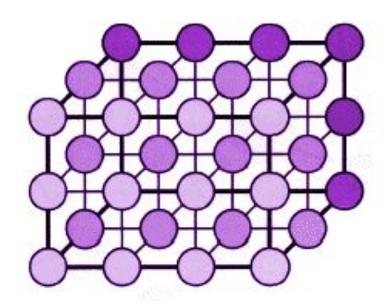
4 Navigation Structures for Websites:

Organic / Web



4 Navigation Structures for Websites:

Matrix



Research Objective

Find out if one navigation structures was better suited for visually impaired users

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Find out *why* a particular navigation structure worked better than others, if it did.

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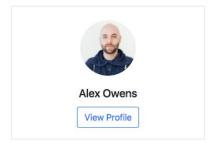
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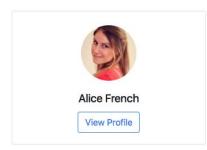
Develop guidelines for improving accessible web development

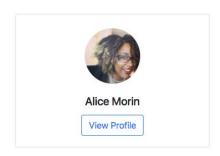
Websites

This is an alphabetical list of users. Use the navigation tools below to find Loretta Burns's profile.















Results

Generally speaking, web navigation relies on context and depends on user preferences, needs, and abilities.



Moving Forward?

How do you design web navigation to benefit the majority of users?

Moving Forward?

How do you design web navigation to benefit the majority of users?

Things to remember:

Users need context

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Information architecture should inform navigation structure

Moving Forward?

How do you design web navigation to benefit the majority of users?

Things to remember:

Users need context

Information architecture should inform navigation structure

Usability surveys provide development context

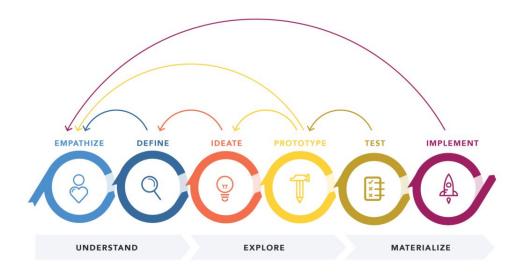
"Accessibility starts with inclusion"

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- Garrett Massey, a white cisgender male

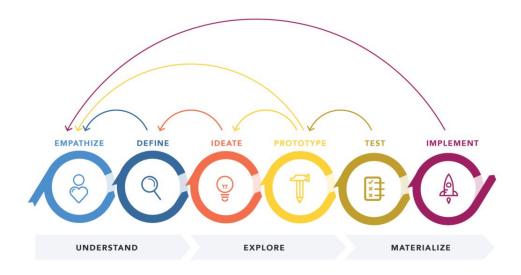
"Accessibility starts with inclusion"

Universal and accessible design start with empathizing and understanding your users.



"Accessibility starts with inclusion"

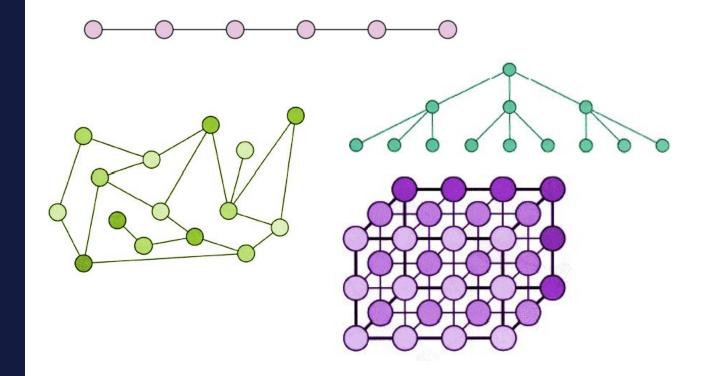
The design process should constantly defer to people with diverse experiences.



Principles of Universal Design

- Equitable Use
- Flexibility in Use
- Simple and Intuitive Use
- Perceptible Information
- Tolerance for Error
- Low Physical Effort
- Size and Space for Approach and Use

Given this, how should you structure your web navigation?



Given this, how should you structure your web navigation?

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User Feedback and Input

dribble.com

Given this, how should you structure your web navigation?





User Feedback and Input

Information Context

<u>dribble.com</u>

Exercise:

You are designing a website for a restaurant. How do you structure the online menu such that information is accessible, findable, and understandable?

Exercise:

Talk to the existing customers.

Exercise:

Check how the physical equivalent is organized.

Exercise:

Ask people outside of your team what they expect to see in a similar system.

Exercise:

Prototype different mockups using different navigation structures. Which works best for you? Which works best for others?

Exercise:

Iterate!

Exercise:

Continue deferring to users, especially ones who have different backgrounds and experiences from you.

Final Thoughts

No single designer or developer will be able to implicitly understand the needs of all users.

This is why we need to include users IN the design process



Final Thoughts

Diversity of people on your team leads to diverse and new ideas for design and information architecture.

"Diversity of Thought" should be achieved as a result of diverse representation

Michelle Kim



Final Thoughts

Creating accessible platforms, websites, and systems increases usability for everyone

Thank you!



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