



Break the Burger A UX Case Study on Web Navigation

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Pressed for time?



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What are we talking about?

Hamburger menus and other hidden navigation methods were developed to save space on mobile devices when the first iPhone came out. After a decade, this method has evolved visually but not functionally.

Due to this, the problems with the hamburger menu have been emerging, but it seems no one wants to believe the truth.

Therefore, a change needs to come to break the use of the hamburger menu. The way to do this, through qualitative and quantitative research, testing possible design solutions, and publishing those findings.

Abstract

Hidden navigation is becoming outdated and hurting the experience of the user. When the navigation is hidden from the user, it brings down the discoverability of the site (it takes users longer to find information they need) and the overall metrics (analytics that track business goals to better their profit).

Introduction

Break the Burger is a case study to show the drawbacks of the hamburger menu and hidden menus and showcase possible tested solutions.





uate Rationalize



The data that was gathered was collected through Qualitative and Quantitative listed below:

Qualitative

System Usability Scale Surveys

Quantitative

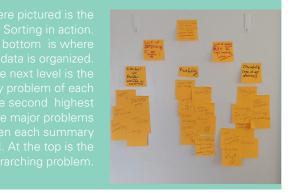
Questionnaire Interviews

Overall, this study recruited 50 people to gain feedback from the methods listed in this study.



When enough feedback was gained, there was two evaluation methods used to uncover the over arching problem(s).

To do this, *Heuristic Analysis & Card Sorting* methods were used. The heuristic analysis was use to uncover major problems. Then, those problems were than used as base categories for the card sort. Once the categories are set, the data is organized and simplified to the over arching problems.



Rationalize

Within this stage, the data is used to determine and define the *metrics* and influences *new designs*.

Metrics, or applied analytics, are used to measure the level of impact, or the overall success, of the changes in the designs.

Therefore, these metrics will align with the discovered issues and the business goals to track the progressof the changes.



Break the Burger: Desktop Navigation Questionnaire

Here is a quick questionnaire asking about your experience navigation website for Deskto It should take about 5 minutes and please answer honestly. Thank you!



Break the Burger: System Usability Scale for Mobile

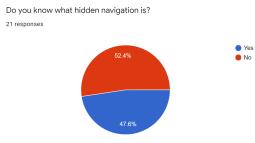
is a quick questionnaire asking about your experience navigation website for mobile levices. It should take about 5 mins and please answer honestly. Thank you

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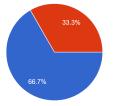
Data & Problem

The **Questionnaires** were designed to see *what* people know about these of the hidden and hamburger menu.



Have you seen this in a different style?

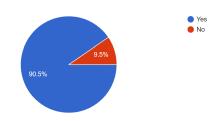
21 responses



Data gathered

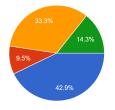
Have you seen or used this icon?

21 responses



What is that icon called?

21 responses





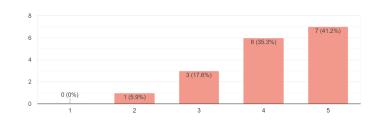
From there, a **System Usability Survey** was used to see *why* these problems were happening . The scale that was used was from Strongly Disagree to Strongly Agree (1 to 5).

I find it easy to navigate a website when I can see the options. 17 responses

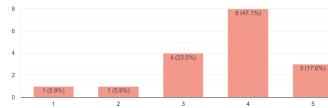


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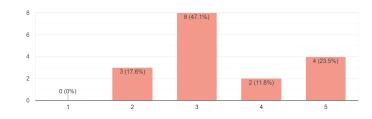
I have no problems finding information when I need to tap to reveal the navigation menu.



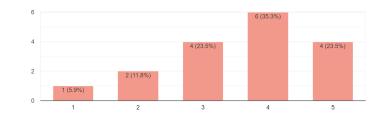
l have an easy time touching/tapping the icon menu with my finger. 17 responses



When navigation is not visible, I have a hard time finding the menu. 17 responses

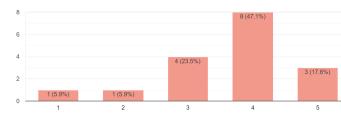


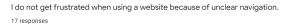
I have an easy time reaching the icon menu with my finger. 17 responses

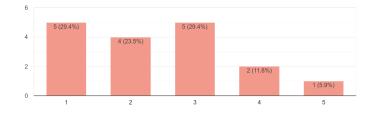


If the navigation is hidden, I find it easier to find it by looking for the icon.

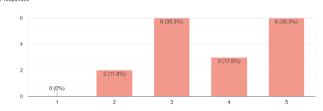
17 responses







If the navigation is hidden, I find it easier to find it by looking for the word "Menu". 17 responses



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The last research that was done was face-to-face *interviews*. There were a total of six (6) interviewees that were asked a series of question about using hidden and hamburger menus and their opinions on the design and functionality of it.

Some notable finding are listed below:

Having to click more

Forces user to stop what they are doing

Unclear Iconography

Defined Metrics

% Increase of Success rate

% Increase in Directness rate

Decrease in average time

From the research, it was uncovered that hidden menus and Hamburger menus are:

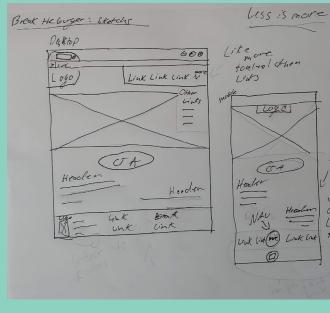
& Lack of Consistency and Control

The Problem

Not Flexible

Testing

All together, there were **two strong** ideas that became possible solutions. On the left, you have a menu that only holds 7 labels, is an in-line, visible navigation, and separates important and less important links. On the right, is a concept that has 4 labels and can be collapsed and reopened at the user's request.



Sketches

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Mock-ups



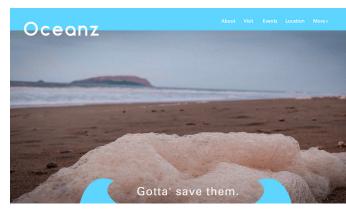
For the test, a minimal fake website was created that focused on the navigation function for the site. *With that said, there is no connection, or a bigger picture, behind the image, logo mark, or the slogan used.* Each design as the same form, but a different navigation method.

Hidden/Hamburger Menu



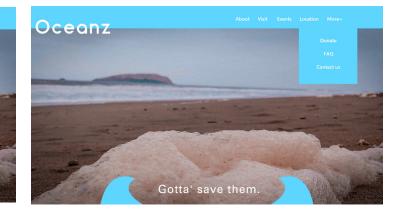
As for the new design, the first sketch was chosen because it solved the problem points that were uncovered: It allows for consistency, modularity, and has a balanced ratio of accessible and conceivable states.

New Design



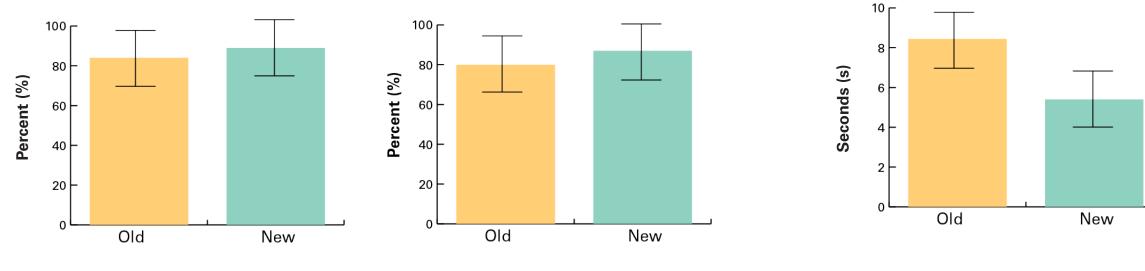
This usability test chosen for this study was a simp A/B test. Participates were given tasks, focused on using every part of the menu, to complete. During the test, participants were timed, marked the type success of failure (direct or indirect), and noted ho directed they felt navigating the menu.

Process



ple	After each test was completed, a post usabilit
n	survey was given. This was a three question surve
9	that tracked the metrics that were defined earlie
e of low	This process was repeated for the other desigr

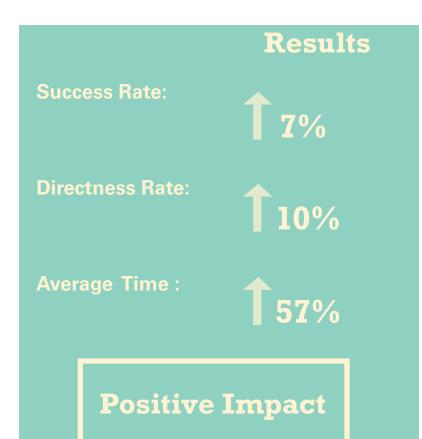




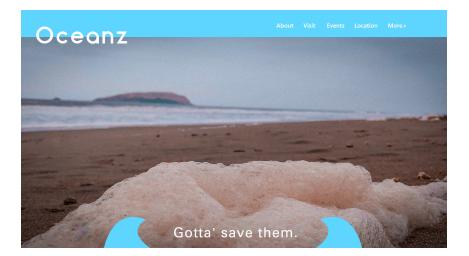
Success Rate

Directness Rate





Conclusion



Hidden menus are hurting UX metrics and having a negative impact on the user's experience. Yes, the results are a lot smaller than anticipated but that is from a sample size of testing 5 people, due to lack o time.

However, no matter the number size, this still **proves** that there are issues with success, directness, and average time when using hidden and hamburger menus.

а	Moving forward, the use of the hamburger should be
	only for additional functionalities and not the a
;	navigation method. Therefore, more time needs to be
of	added into the navigation and information architecture
	design to create a user-centered solution.

Let's Break this Burger and regain control!

Typefaces used in this booklet

Rockwell, 50/60 Univers, 10/12 IMM SeniorThesis Showcase Class of 2020