Vertical Navigation Research Interactive Prototype Testing





Testing Methodology

- The purpose of the test was to determine
 - 1) if users noticed the vertical navigation bar
 - 2) if users *used* the vertical navigation bar.
- The test consisted of 5 tasks total. The tasks were designed to force the users to have to navigate the full length of the page multiple times.
- We observed users by using the Tobii eyetracking system.
- Eye-tracking data was aggregated across all tasks in order to gauge the overall usage of the vertical navigation.

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Features Reviews Specifications Support Accessories

Up close and personal zoom

Capture more of any moment with pixel-perfect zoom. The 41-megapixel PureViewTH camera sensor lets you zoom into any photo or video without losing the amazing details.







Executive Summary

It was observed that the Vertical Navigation was seen and used, and **100% of users** directly interacted with it.







Results Summarized

- 100% of users clicked on the vertical navigation at least once during the test.
- 90% of users were able to identify where they were on the page without needing to scroll
- On average, each user looked at the vertical navigation bar just under 15 times across the five tasks
- On average, each user clicked on the vertical navigation bar just over 4 times across the five tasks





Detailed Results

Key Observations

• The average time for users to notice the navigation bar for the first time is 19.47 seconds

• Users looked at the navigation bar an average of 14.7 times throughout the five tasks

• Users clicked on the navigation bar an average of 4.3 times over the five tasks



Statistical Term Definitions

Descriptive Statistic Definition

| Ν | Number of data values or sample size used to |
|-------------------------------|---|
| Mean | Describes the central tendency of a set of data data values). Tobii Studio calculates the arithm |
| Max | Highest value in the data set. |
| Min | Lowest value in the data set. |
| Sum | The sum of all data set. |
| Median | The value that separates a data set in two halves to highest value and then determining which of data values is even, then there is no single min |
| Stdev (Standard Deviation) | Describes the variability in a set of data values deviations of each data value from the mean. |

calculate the Mean and Stdev (number of recordings, fixations, visits or participants).

ta values. It is calculated by summing all the data values and dividing by N (number of netic mean.

lves. The value is calculated by first arranging a finite list of data values from lowest data value is located at the middle of the list - the median value. If the number of iddle data value. The median is then defined by the average of the two data values.

s. The value is calculated by square rooting the average of the squares of the Tobii Studio calculates the sample standard deviation (N-1).



Time to First Fixation

This metric measures how long it takes before a test participant fixates on an active area of interest (i.e. Vertical Navigation)

| Participant | Ν | Mean | Median | Stdev | Min | Max | Sum |
|------------------------|----|-------|--------|-------|------|-------|--------|
| Time to First Fixation | 10 | 19.47 | 15.33 | 11.85 | 7.65 | 47.03 | 194.66 |

It took users between
 7.65 and 47.03 seconds
 to fixate on the vertical
 navigation bar for the
 37.5





Visit Count

This metric measures the number of visits within an ara of interest (i.e. Vertical Navigation)



| Stdev | Min | Max | Sum |
|-------|-----|-----|-----|
| 4.64 | 6 | 22 | 147 |
| | | | · |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Stdev | Min | Max | |



Mouse Clicks

This metric measures the number of times the participant left-clicks with the mouse on an area of interest (i.e. Vertical Navigation)

6

| Participant | Ν | Mean | Median | Stdev | Min | Max | Sum |
|---------------------|-----|------|--------|-------|-----|-----|-----|
| Mouse Clicks | 10 | 4.3 | 4 | 2 | 2 | 8 | 43 |
| Users clicked on t | 8 | | | | | | |
| vortical navigation | har | | | | | | |

vertical navigation par between 2 and 8 times over the five tasks



| | Stdev | Min | Max | |
|--|-------|-----|-----|--|
| | | | | |
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Appendix

List of Tasks

- 1. What is the weight of the phone?
- 2. How many megapixels does the front facing camera have?
- 3. What section are you in?
- 4. Does this phone have any cases available for purchase?
- 5. What colors is this phone available in?



Fixation Duration

Measures the duration of each individual fixation within an AOI.

| Participant | N | Mean | Median | Stdev | Min | Max | Sui |
|-------------------|------|------|--------|-------|------|------|------|
| Fixation Duration | 301 | 0.48 | 0.25 | 0.64 | 0.07 | 4.03 | 144. |
| | _ | | | | | | |
| | 5 | | | | | | |
| | | | | | | | |
| | 3.75 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 2.5 | | | | | | |
| | | | | | | | |
| | 1.25 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 0 | Mean | Median | Stdev | Min | Max | _ |





Total Fixation Duration

This metric measures the sum of the duration for all fixations within an AOI

| Participant | N | Mean | Median | Stdev | Min | Max |
|----------------------------|------|-------|--------|-------|------|-------|
| Total Fixation Duration | 10 | 14.45 | 14.17 | 6.19 | 3.86 | 25.75 |
| | 30 | | | | | |
| | | | | | | |
| | 22.5 | | | | | |
| | | | | | | |
| | 15 | | | | | |
| | | | | | | |
| | 7.5 | | | | | |
| | | | | | | |
| | 0 — | | | | | |
| | | Mean | Median | Stdev | Min | Max |





Fixation Count

This metric measures the number of times the participant fixates on an AOI

| Participant | Ν | Mean | Median | Stdev | Min | Max |
|----------------|-----|------|--------|-------|-----|-----|
| Fixation Count | 10 | 30.1 | 28 | 13.76 | 15 | 57 |
| | 60 | | | | | |
| | 45 | | | | | |
| | 30 | | | | | |
| | 15 | | | | | |
| | 0 — | Mean | Median | Stdev | Min | Max |



Visit Duration

This metric measures the duration of each individual visit within an AOI

| Participant | Ν | Mean | Median | Stdev | Min | Max | Sum |
|----------------|------|------|--------|-------|------|------|--------|
| Visit Duration | 147 | 1.05 | 0.62 | 1.07 | 0.07 | 6.25 | 154.71 |
| L | 7 - | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 5.25 | | | | | | |
| | | | | | | | |
| | 3.5 | | | | | | |
| | | | | | | | |
| | 1.75 | | | | | | |
| | | | | | | | |
| | 0 - | | | | | | |
| | | Mean | Median | Stdev | Min | Max | |





Total Visit Duration

This metric measures the duration of all visits within an AOI

| Participant | Ν | Mean | Median | Stdev | Min | Max |
|----------------------|------|-------|--------|-------|------|-------|
| Total Visit Duration | 10 | 15.47 | 15.65 | 6.2 | 4.91 | 26.72 |
| | 30 | | | | | |
| | | | | | | |
| | 22.5 | | | | | |
| | | | | | | |
| | 15 | | ···· | | | |
| | | | | | | |
| 7.5 | 7.5 | | | | | |
| | | | | | | |
| | 0 — | | | | | |
| | U | Mean | Median | Stdev | Min | Max |







Thank you