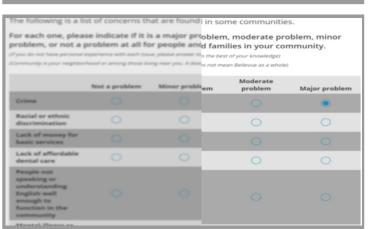
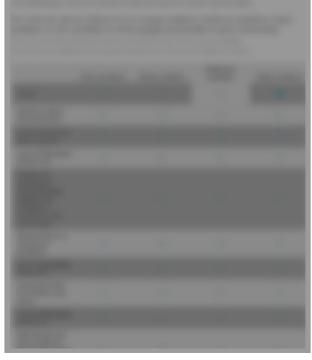
Waking Online /Accessible to People withh Disabilities









7/18/2021

Overview and Agenda

- Who am I
- What will NOT be discussed
- The scope of the problem
- Packing for the Journey
- The OG "out of the box"
- Separate but equal
- Third time is a charm (sort of)
- Conclusions where do we go from here

Who am I and why am I here?



· Who am I?

- · Nathan C. Wiggin
- Founding member and partial owner of ComEngage.us, LLC.
- 15+ years in marketing research
- "Chief Solutions Officer"
- NOT AN EXPERT in accessibility issues!!!

• Why me?

• Well, because I got thrust into it

What Will NOT be Discussed

- NO!
 - The laws and legalities surrounding accessibility
 - I am not a lawyer and I am not YOUR lawyer
 - Specific coding/programming tricks used
 - I'm terrible at coding and don't want people to see it
- Hopefully
 - The scope of the problem
 - The user experience
 - The process
 - Considerations and improvements

Scope of the Problem

- Missing Data
 - Census report from 2014 indicates roughly 12 million Americans have a serious vision impairment¹
 - Worldwide upwards of 190 million people experience significant disabilities (stats do not break out numbers by type of disability)
 - This population often gets overlooked, especially in the MR communities
- You could get sued
 - United States vs. Astria Health²
 - Trust me...l know

Packing for the Journey

- Screen reader software
 - (e.g. JAWS by Freedom Scientific)
- Good quality headphones
- Patience
- Emotional support, and
- · Blindfold...
 - Chrome Extension: ChromeLens
 - (Once installed use F12 to access)

The Beginning: Out of the Box

• Let's start by taking a survey: [LINK]

Take Two: Separate but Equal

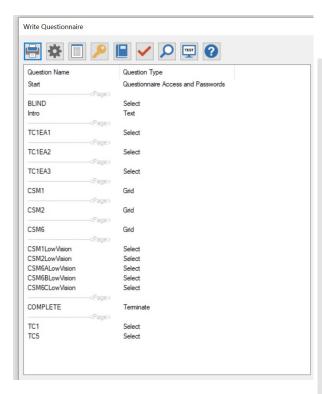
- Practical Definition
 - Creating two surveys, one for "normal" users and a second taking accessibility issues into account
- Legal Definition
 - The doctrine set forth by the U.S. Supreme Court that sanctioned the segregation of individuals by race in separate but equal facilities but that was invalidated as unconstitutional (Merriam-Webster dictionary)
 - I'm not a lawyer, I'm not YOUR lawyer
- Let's take a look: [<u>LINK</u>]



Separate but Equal -Problems

- Practical Problems
 - It's kind of ugly
 - It's obvious it is separate but equal
 - Any and all changes need to be applied in multiple places
 - Back-end is a disaster
- Legal problems
 - It can get you into hot water
- Side note: this also applies (well, until a few days ago) to doing surveys in multiple languages





		CSM6_	r1					CSM2LowVision	CSM6ALowVision	CSM6BLowVision	CSM6CLowVision
7			5	5	5	9					
							15	1	1	1	1
12			6								
6			5	4	5	9					
							14	4	5	4	4
11			6		6						
6			5	5	5	9					
							12	5	6	6	5
1			4								
9			6	6	6	8					
							12	6	7	7	7
9			5			8					
6			4	2	4	8					
							12	6	7	7	7
1	- 1		8			8					
10			5	5	6	8					
							12	6	7	7	7
10			8	8	8	8					
12			7	7	6	8					
							12	6	7	7	7
10			6	7		8					
12			7	7	7	8					
							12	6	7	7	7
9			6	5	6	8					
10	- 4		6	6	6	8					
							12	6	7	7	7
9			5	3	3	8					
9			5	6	7	8					
							12	6	7	7	7
12			1	7		7					
6			6		7	7					
							12	6	7	7	7

Third Time is a Charm (sort of)

- Our goals
 - Get rid of the separate but equal version
 - Combine everything into one survey with one set of questions and one set of variables
 - Make the experience easier for everyone
- Let's take a look: [LINK]
- Unexpected challenges
 - Screen readers read left to right, top to bottom



What's Next?

- Important Take-Aways
 - We take site/vision for granted
 - Blind users don't use mice
 - Try it yourself
 - Get an expert
 - Freedom Scientific
 - Save and comment your code
 - Use the questionnaire library!
- What's next
 - Continuing refinement so it is easier for proficient users to navigate
 - Incorporating same flow/logic using multiple languages while also ensuring accessibility is being maintained
 - Our software vendor recently released a major update that drastically improved out-of-the-box accessibility and we are continually working together to improve (the real winner if you ask me)
 - Look into other accessibility barriers and how they can best be addressed



SpecialThanks



- Out Client, Sound Transit
- Mary-Ann Mendez
- Sawtooth Support

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