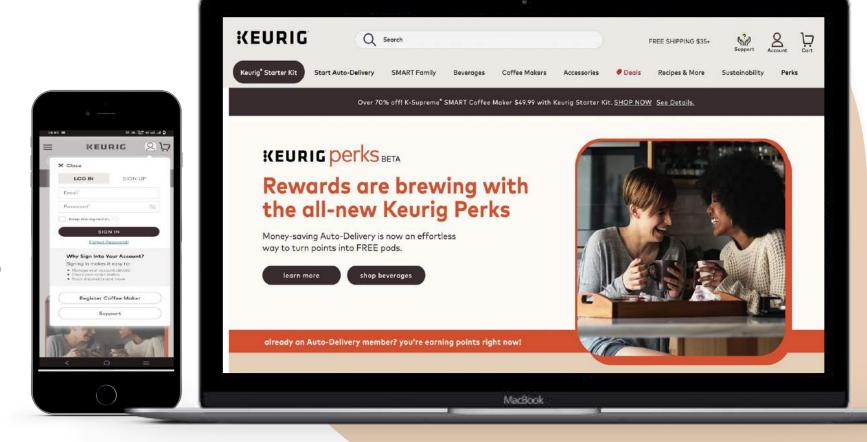
**HCLTech** 

## **Objectives and Project Overview**

The objective of this heuristic evaluation is to review and score the Keurig websites and recommend enhancements to improve the overall customer experience. We reviewed the following digital properties:

Keurig.com

(Public site)





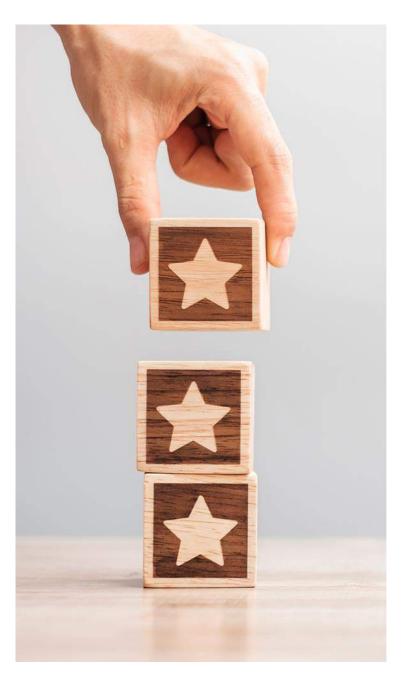


## **Scope of Evaluation Activities**

Heuristic evaluations rely upon the judgement and expertise of usability professionals with an adequate number of years' experience. Ideally these professionals are represented by a mix of individual subject matter experts to ensure issues are not overlooked.

#### In conducting this review:

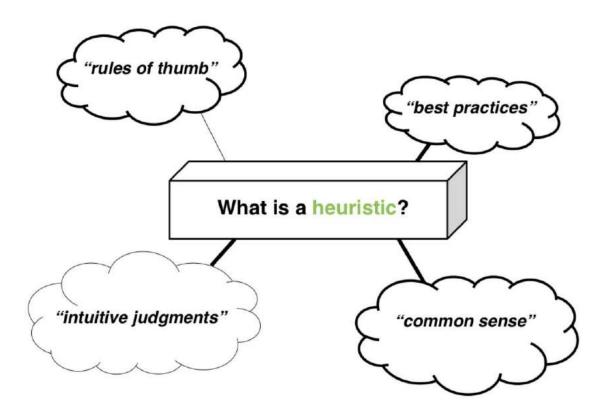
- A total of two (2) usability experts spent approximately two days each evaluating the Keurig digital experience.
- The skillsets of these consultants include the following:
  - Information Architect (1)
  - Visual Designer (1)



## What is a Heuristic Evaluation?

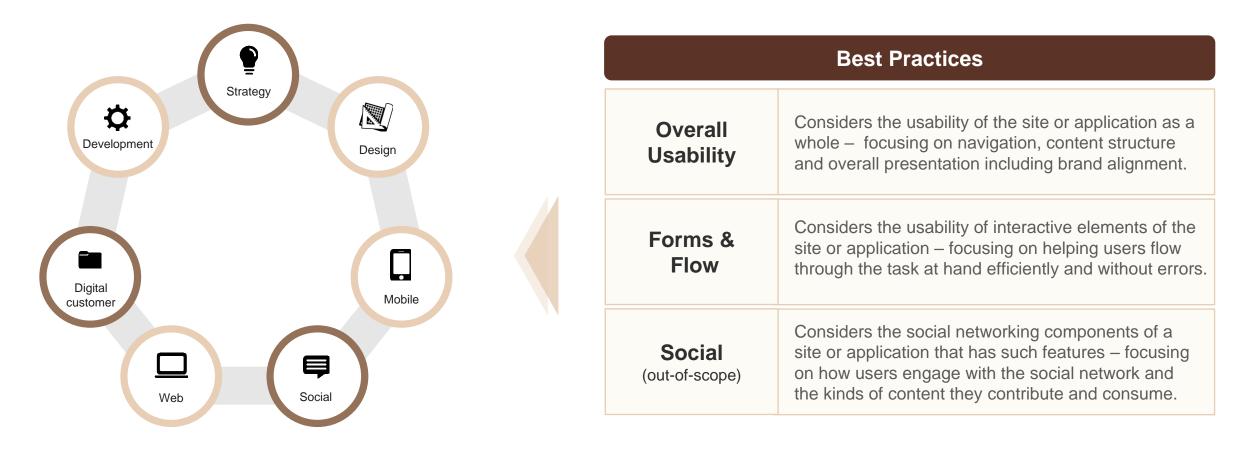
A heuristic evaluation is an inspection-based review of a digital site that identifies usability issues. Heuristics are used to...

- Evaluate the strength and quality of what is currently offered to users.
- **Facilitate** critique during planning, design, and development.
- **Predict** the effectiveness of a potential solution.



## **Heuristic Review Framework**

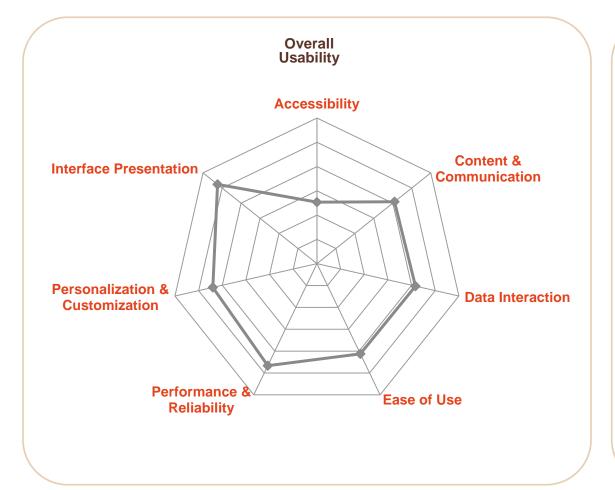
The Nielsen Norman Group (NN/g) framework for evaluating the usability of digital experiences considers information presentation, look-and-feel, and any underlying characteristics such as user mental models and data manipulation.



## Evaluation Results: Data Aggregation for Scoring

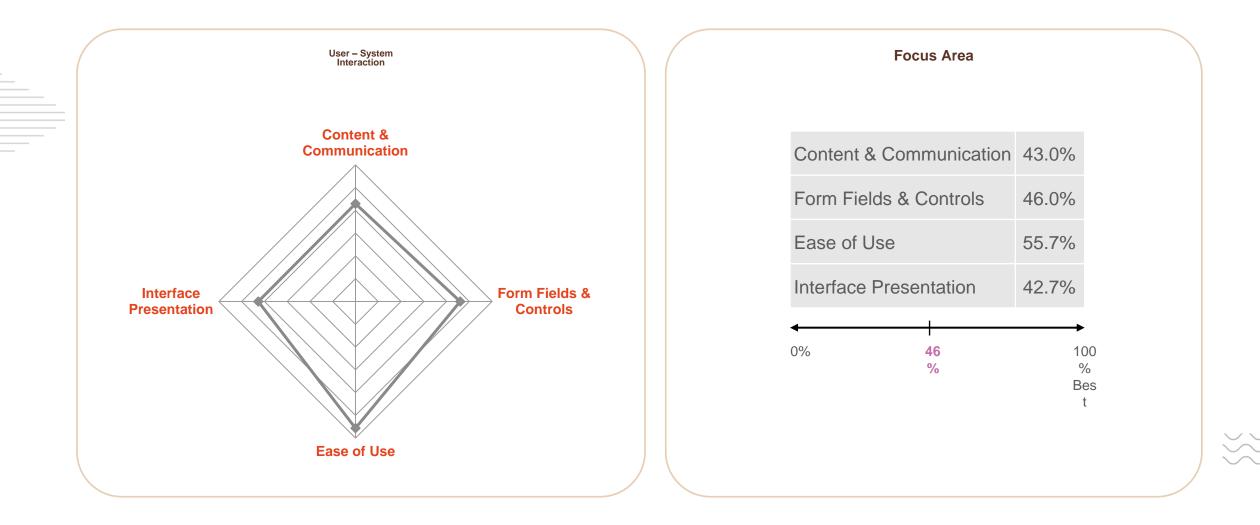
	Never (1)	Rarely	Sometimes	Almost Always	Always (5)	N/A (0)	Comment	Hx Principle
Accessibility	7	12	0	0	0		25.3%	
Are navigation choices ordered in a logical or task-oriented manner (i.e. with more common tasks given precedence)?	x							
Does the homepage provide easy access to search functionality?		х						
Does the homepage provide easy access to commonly-accessed functions and content items (i.e. 'quick links')?		x						
If the navigation scheme has been customized, is naming intuitive and consistent with organizational terminology?		x						
Are links clear, descriptive and well-labelled?	х							
Do button and link labels use verbs/action words?	х							
Are users easily able to access the site and key sections therein (i.e. are URLs friendly)?	x							
Is the search function consistently available on all pages?								
Is the search tool configured to search all appropriate record types and display identifiable information for each?		x						
Is the overall site compliant with WCAG 2.0 guidelines? (Accessibility Quick Reference)		x						
Content & Communication	1	18	18	8	0		40.9%	
Do all content items have an appropriate header?			х					
Does the site have clearly and consistently defined content types? Examples include news articles, brand messages, comments, instructions			x					
Are content types presented consistently across the site? E.g. if news articles exist in multiple sections, are they consistently structured & displayed throughout?		x						
Does the site effectively make use of non-text content formats in the site? E.g. images, video, illustrations, interactive components (data-driven, non-tabular)	x							
Are non-text content formats effectively integrated into pages? E.g. with appropriate metadata, situated in context		x						
Do search results display an appropriate set of fields for users to locate and select the desired item if present, and sort or filter by meaningful categories?				x				

## Evaluation Results: **Overall Usability Score**



Focus Area	
Accessibility	25.3%
Content & Communication	40.9%
Data Interaction	41.7%
Ease of Use	41.3%
Performance & Reliability	46.7%
Personalization & Customization	44.0%
Interface Presentation	52.4%
<	
0% <b>39</b> %	100 % Be t

## Evaluation Results: Forms & Flow Score



## Executive Summary: Immediate Opportunities For Improvement

#### Forms & Flows **Navigation** Content **Accessibility** Users have trouble finding More white space can be The site does not meet all of Currently, there is no **single** what they're looking for on the added by increasing the the WCAG 2.1 guidelines. Specifically, we should business and residential site. This is a usability margins around the text and problem that can be solved images. Also can use a more consider having hover state by improving your site's

navigation. Primary, secondary, and local navigation should all be clear and easy to use. Breadcrumb trails can also help users track their progress and stay oriented.

consistent color scheme by choosing a few colors to use throughout the website. and more high-quality images, organizing the text in a more logical way.

tool tips, error messaging, or text-to-speech functionality.

sign-on (SSO) functionality for customers. This would allow customers to sign into all your services with a single username and password. This would reduce the risk of password issues, help desk costs, and security issues.

## Executive Summary: Broader Considerations for Improvement

#### Controls

ଜ

The primary buttons can have strong call-to-action verb labels, drop-down menus can be used instead of radio buttons, and the calendar picker functionality should follow conventional design practices.

#### **Visual Design**

More white space can be added by increasing the margins around the text and images. Also can use a more consistent color scheme by choosing a few colors to use throughout the website and more high-quality images, organizing the text in a more logical way.

#### **Navigation – Search**

 $\bigcirc$ 

Customers often use the global search field when they cannot find the content they are looking for through navigation, there is no way to filter or sort them, which is a basic user expectation.

#### **Content - Personalization**

Ø

Customers expect personalized experiences, and those who don't get them are more likely to leave. Metrics support this statement: **33% of customers abandon business relationships because personalization is lacking; 81% of customer want you to know and anticipate their needs (Accenture, 2017).** 



## **Appendix: 2**

**Detailed Review Criteria** 

## **Quick Snapshot of Analysis**

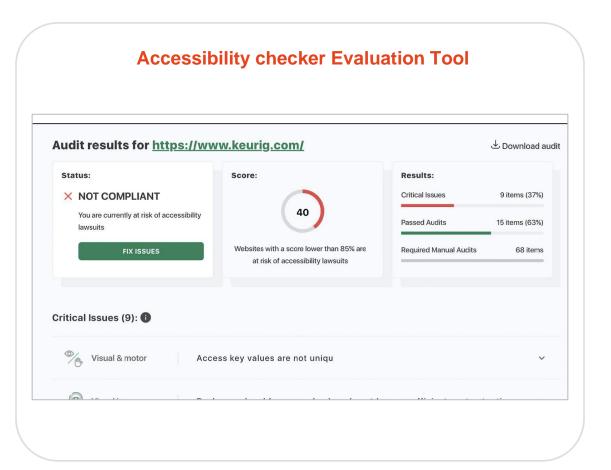
Section	Recommendation	Innovation	CX ideas
Accessibility	Add <b>alt text to all images</b> . Make sure all forms are <b>accessible to screen readers</b> . Provide transcripts for all videos. Make sure <b>the website is compatible</b> with all major browsers and devices and <b>better</b> <b>intuitiveness</b>	Make your <b>website responsive</b> so that it can be accessed on any device, including mobile phones and tablets. This will make your website more accessible to folks who are unable to utilise a typical desktop computer. we can create options to allow users to filter products by accessibility features, such as those with large buttons or adjustable settings.	To experience something with an <b>equivalent depth</b> <b>and completeness</b> as everyone else. It has its foundations in equality, empathy, and what's just plain right to do, but all of those are simply factors in <b>crafting an equivalent, excellent experience</b> .
Content	The content should be <b>well-organized and easy to</b> <b>find</b> , forms should be easy to fill out. It creates <b>legible and convincing content</b> to assist users in interacting with the interface, effectively compelling them to act. we can use a variety of content formats, such as <b>text</b> , <b>images</b> , <b>videos</b> , <b>and infographics</b> .	Write <b>clear and concise</b> copy. People are busy and don't have time to read long, rambling articles. Get to the point quickly. Create a blog that focuses on <b>coffee culture and brewing techniques</b> . <b>Offer</b> <b>personalized recommendations for coffee</b> <b>makers</b> . An easy-to-use FAQ page	<b>Personalize the experience for each visitor</b> . Provide helpful information and resources. Make it easy to contact you
Forms & Flow	Provide clear and concise instructions for completing the purchase process. Offer multiple payment options. Make the <b>checkin/checkout process more lean</b> .	Makes the forms more <b>accessible via screen</b> readers and speech recognition tools.	The forms more accessible via <b>screen readers and</b> <b>speech recognition tools</b> . Make it easier for users with visual impairments to read your content by ensuring the color contrast is legible.
Navigation	The navigation should be clear and easy to use with a <b>clear hierarchy of pages</b> . it should be <b>responsive and consistent</b> throughout the website, so that it works well on all devices.	Our Navigation should guide the user through the content in a way that is either <b>logical or narrative</b> , depending on the site's purpose.	Our navigation is <b>inconspicuous</b> and it creates a <b>memorable user experience</b> .
Visual Design	Use more <b>high-quality images and videos</b> . Create a more <b>modern and user-friendly design</b> . Use a consistent color scheme and font throughout the website.	Create a <b>Memorable Visual Experience</b> is a process for solving problems by <b>prioritizing the consumer's needs</b> above all else	Focused on <b>enhancing a customer's experience</b> throughout all types of <b>Images and Interactions</b> .



# ACCESSIBILITY

## Accessibility: ADA compliance and WCAG guidelines

The Americans with Disabilities Act (ADA) of 2010 requires all electronic and information technology be accessible to people with disabilities. The DOJ encourages self-regulation and the use of WCAG 2.1 level guidelines.



## Web Content Accessibility Guidelines (WCAG)

### Perceivable

Text alternatives to non-text content; alternatives for time-based media; ability for people with hearing and sight disabilities to see and hear content.

## Operable

All functionality available from keyboard; adequate time to consume content; no designs that may cause seizures; adequate navigation.

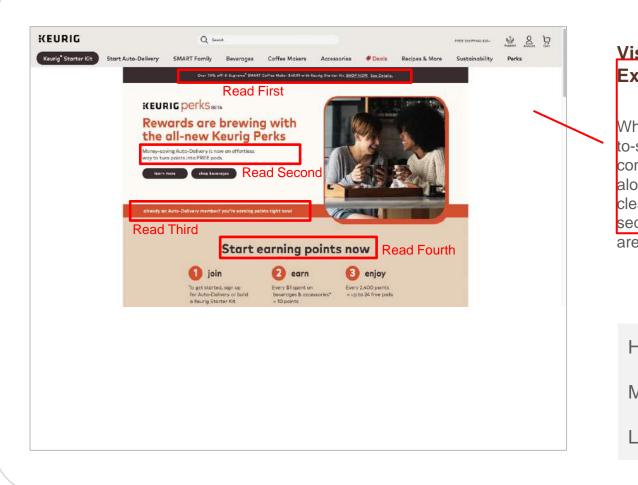
## Understandable

Content is readable and understandable; pages appear and operate in predictable ways; help users avoid and correct errors.

## Robust

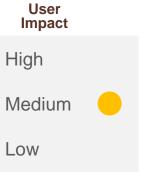
Maximize compatibility with current and future user agents, including assistive technologies.

## Accessibility: Assistive Text-to-Speech Functionality



#### Visually Impaired Experience

When run through a textto-speech application the content does not read aloud in a manner that is clear to the user and the sequence of what they are trying to use.

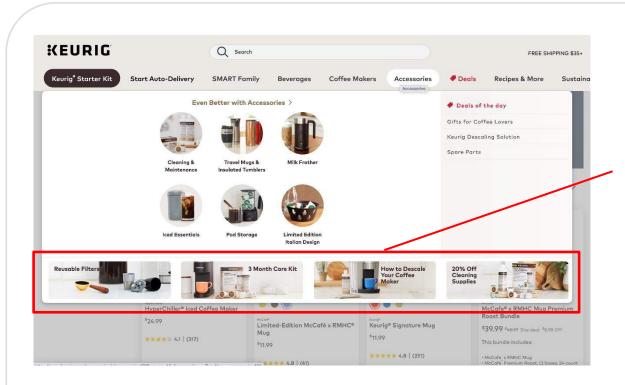


#### Recommendations

Disabled users often use assistive technology. A common example of assistive technology is the screen reader, also known as dictation or textto-speech, which essentially dictates text-based content to visually impaired users. Consider these guidelines:

- Alternative text for images and hotspots
- Alternative text for icons without visual text labels
- Alternative text for video-based media
- Visual text labels for form fields (for those *not* visually impaired)
- Dictation for on-screen changes like errors, alerts, and notifications
- Logically-ordered content, since screen readers read from top-tobottom

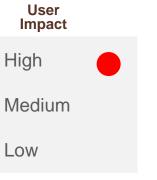
## Accessibility: Visual Design for the Color Blind



\* Blue-Yellow color deficiency filter applied to visual.

#### Inability to Interpret Colors

With the abundance of blue being used throughout the site, and **lacking any other secondary or distinguishing colors,** the small percentage of user suffering from **Yellow-Blue confusion in their color vision** will struggle to execute simple tasks.

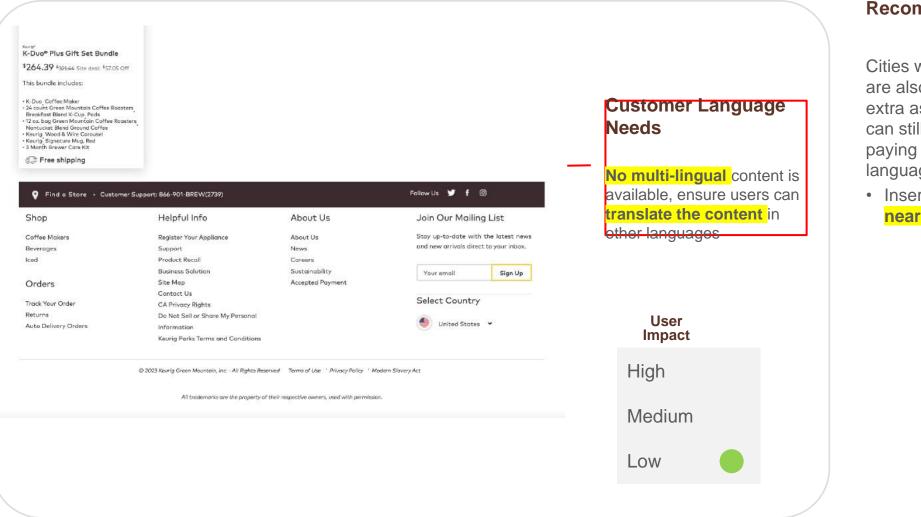


#### Recommendations

Color blindness, or Color Vision Deficiency, affects **approximately 4.5%** of the global population.

- Color is should not be used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.
- A user with **Blue-Yellow confu**sion is on the more rare side for color vision issues, But is an example of this issue that can be prevented altogether with a **simple rework of the executable colors and patterns** used throughout the site.

## Accessibility: Multi-lingual Content Easier to Access

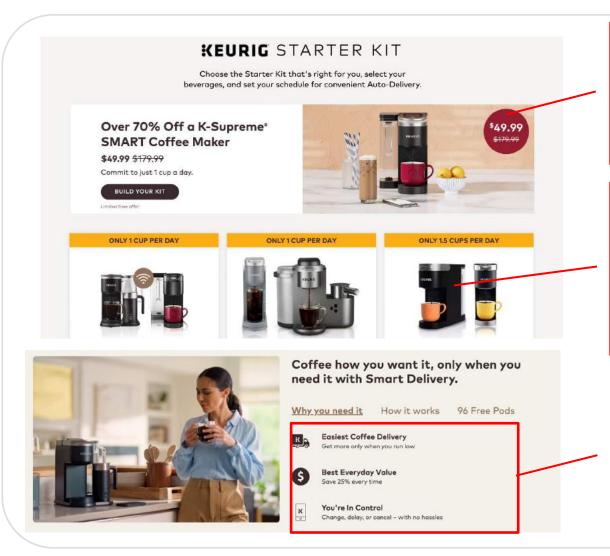


#### **Recommendations**

Cities with large populations who are also utilities customers need extra assistance to ensure they can still complete tasks such as paying bills online in their own language.

 Insert link for other languages near top. Make easy to find.

## Accessibility: Missing Alt Text for Images



#### Alt Text on Hover

Some images on the website do not have Alt text. People who are visually impaired will struggle to understand the images

#### Text Based Links

Some of the links on the website are not text-based, which makes it difficult for people who use screen readers to use the links.

#### Screen Readers

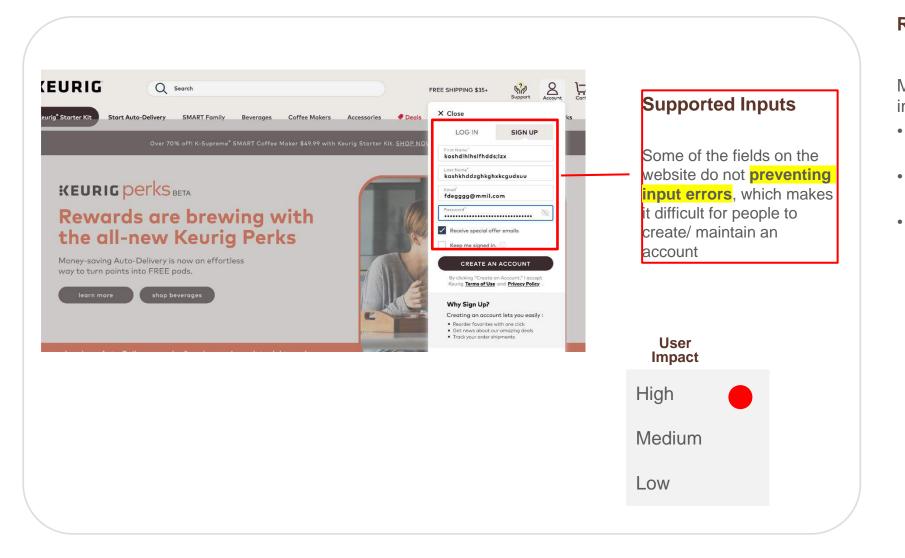
Some of the content on the website is not accessible to screen readers, which makes it difficult for people who are blind to use the website.

#### Recommendations

- Add Alt text to all images, describing what they depict.
- Make sure all links on the website are text-based.
- Make the content accessible to screen readers by using proper markup and avoiding using non-standard elements.



## Accessibility: Poor Error Prevention

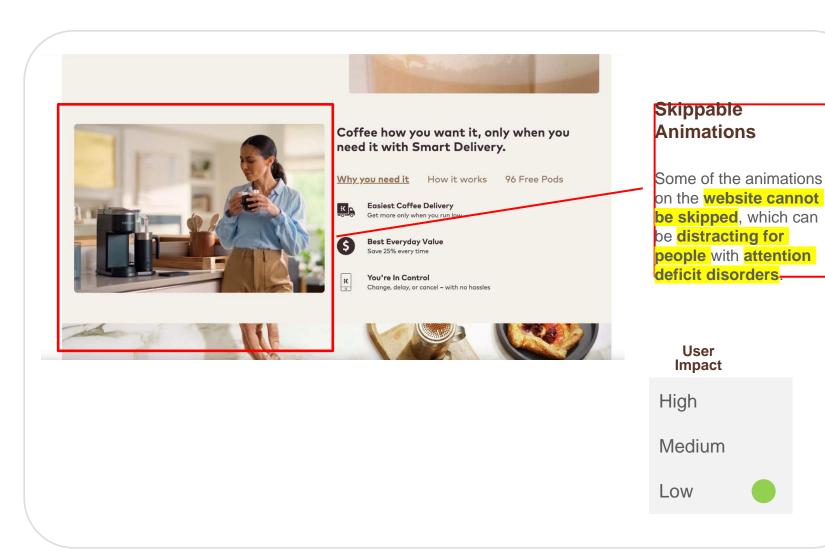


#### Recommendations

Make sure all input fields prevent input errors.

- Provide instant input
   validation
- Show password requirements clearly
- Use related button label

## Accessibility: Animations that are not Skippable

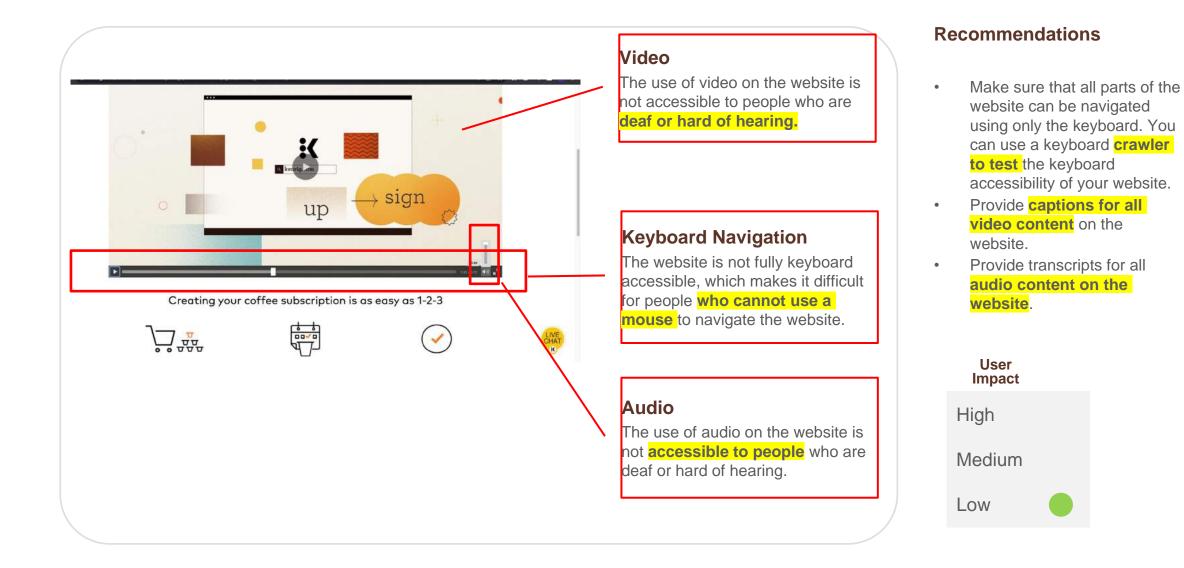


#### Recommendations

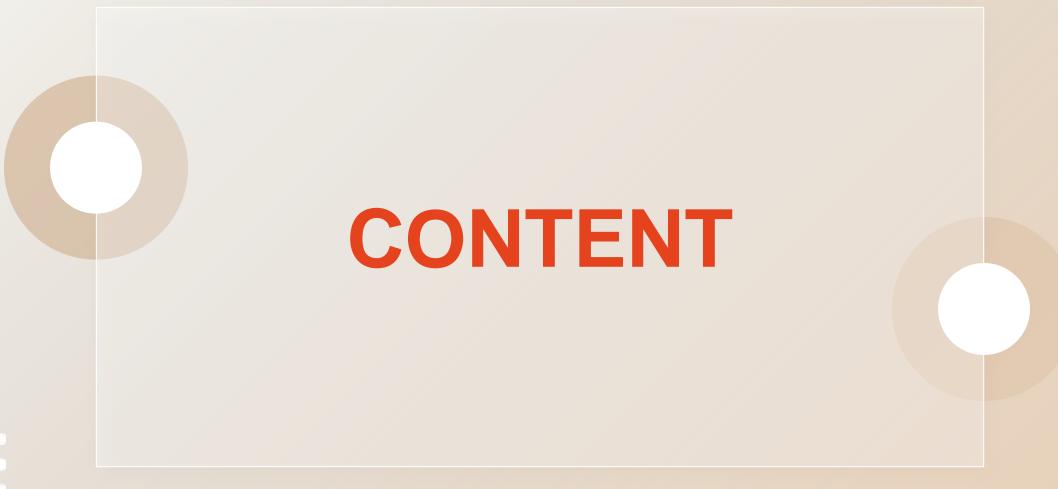
Make sure all animations on the website can be skipped.

- It makes user to feel comfy
- Add Enable options

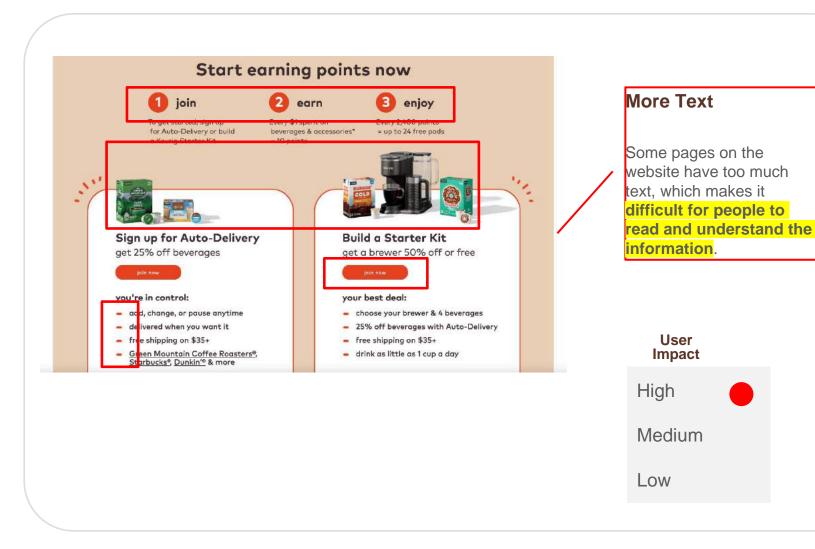
## Accessibility: Lack of keyboard Navigation







## Content: Too Much Text on a Page

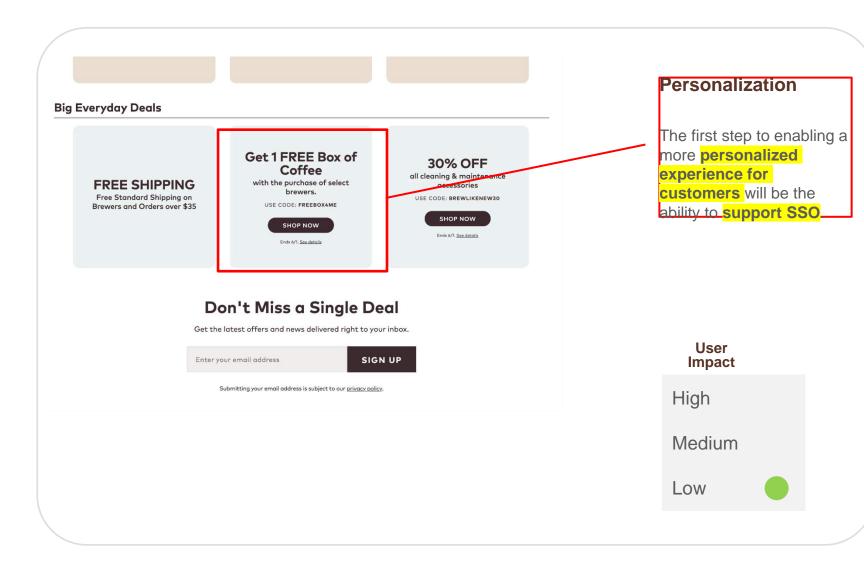


#### Recommendations

Break up the text on each page into smaller chunks, and use headings and subheadings to help people scan the page

- We can **enlarge the te**xt in the CTA.
- Make the numbers and button distinct by changing their colors.
- The orange bullets can be eliminated.
- The product images may all be the same size.
- Capitalize all subtext.

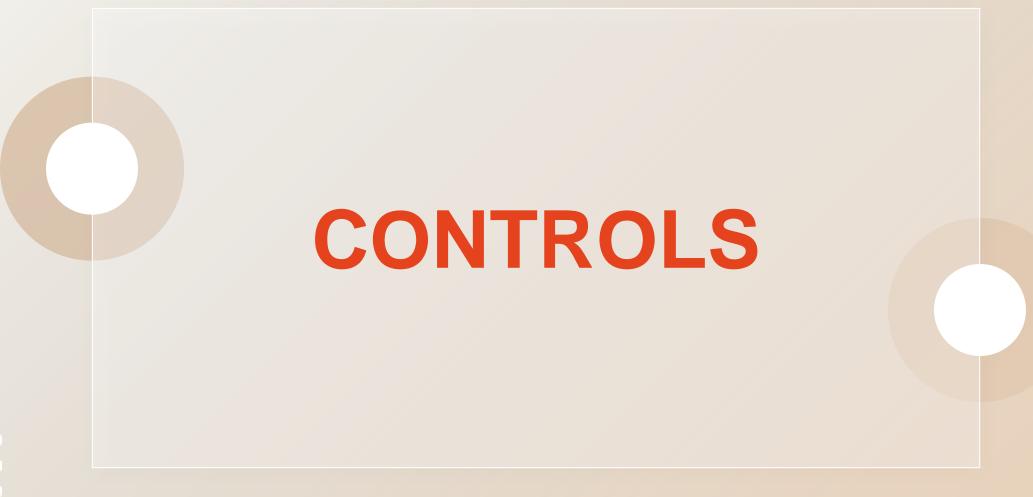
## Content: A Phased Strategy for More Personalization



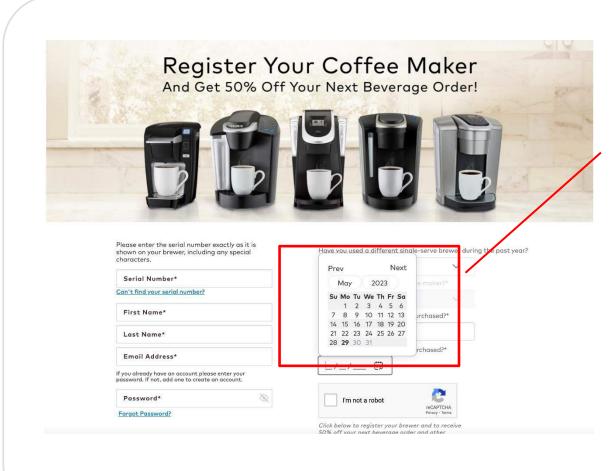
#### Recommendations

- Take a phased approach to greater levels of personalization.
- Start with the understanding you already have about your customers behavior patterns by analyzing existing data.
- Build on that data through time and roll-out more features.
- Enable geolocation
- Start where users left off
- Identify opportunities to personalize their Account Summary page.



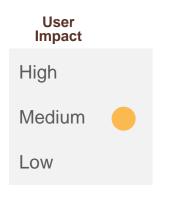


## Controls: Users Expect Conventional Calendar Functionality



#### Calendar Picker Conventions

The functionality and button labeling of this calendar is **challenging to use**. Why is Today an option if prepopulated by default? Why is Clear even necessary?



#### **Recommendations**

Users encounter calendar functions all over the internet. **Design conventions** are very well established, and **user expect that functionality to behave the same or very similar** to what they've found elsewhere.

 Remove "Today" button. Instead, develop functionality that upon user selection of a specific date the calendar captures that date and closes without requiring user to initiate a click.





## Forms & Flow: Button Alignment and Inputs

50% off SMAR1 Makers GET STARTE	FREE Cof	fee Mokers	50% or Mare Off Caffee Makers GET STARTED	Primary Button
♥ Find a store • Custom	er Support: 866-901-BREW(2739)		Follow Us 🎔 🎯 🕇	Alignment Aligning inputs and ac
Shop	Helpful Info	BEST 2023	Join Our Mailing List	with a strong vertical
Coffee Makers	Register Your Appliance	SHOPS Howawook	Stay up-to-date with the latest news	more clearly
Beverages	Support	statista S	and new arrivals direct to your inbox	communicates bow to
loed	Product Recall Business Solutions	About Us	Your email Sign Up	about completing a fie
Orders	Site Map	News		
Track Your Order	Contact Us	Careers	Select Country	
Returns	CA Privacy Rights	Sustainability	Generation United States -	
Auto Delivery Orders	Do Not Sell My Personal Information Keving Perks Terms and Conditions	Rewards Program Accepted Payment Methods		
				User Impact
				High
				0

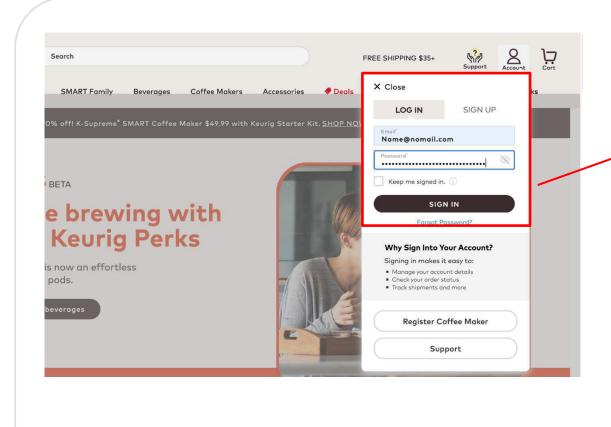
#### Recommendations

Low

Primary input text alignment is another focus area to consider in overall design system and subsequent templates. Users can move more quickly and with less friction if input text are aligned with form fields.

• Align the primary text to vertically center of input fields

## Forms & Flow: Error Messaging



#### Email & Forgot Password

User Impact

High

Low

Medium

Errors appear above the element they are referencing. This can cause a **bit of confusion** when **the error appears between two possible elements**. Ex: Input Correct Email but Password entered was to short. Error appears between the two fields with no clear relationship to either.

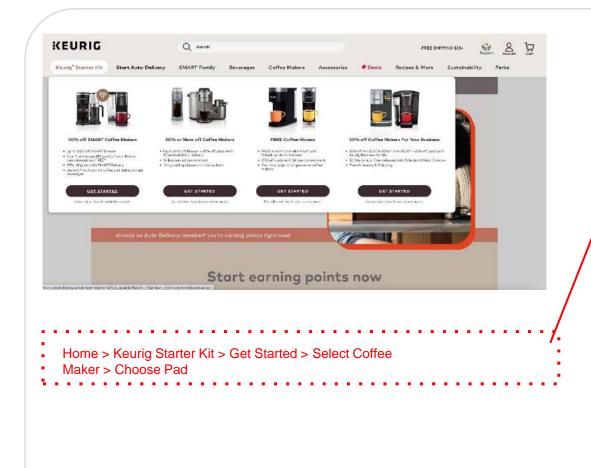
#### Recommendations

 Revise design patterns for displaying errors and check that the global template accounts for cases such as these when layout creates user uncertainty.



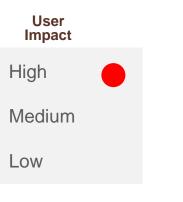


## Navigation: Breadcrumbs, Orientation, and Findability



## Design clear interactions?

Navigational inconsistencies may result from content that doesn't fit neatly into the site's sections, so is listed on its own. Consistency comes down to making a choice. Ensure that secondary navigation is used consistently across all sections.

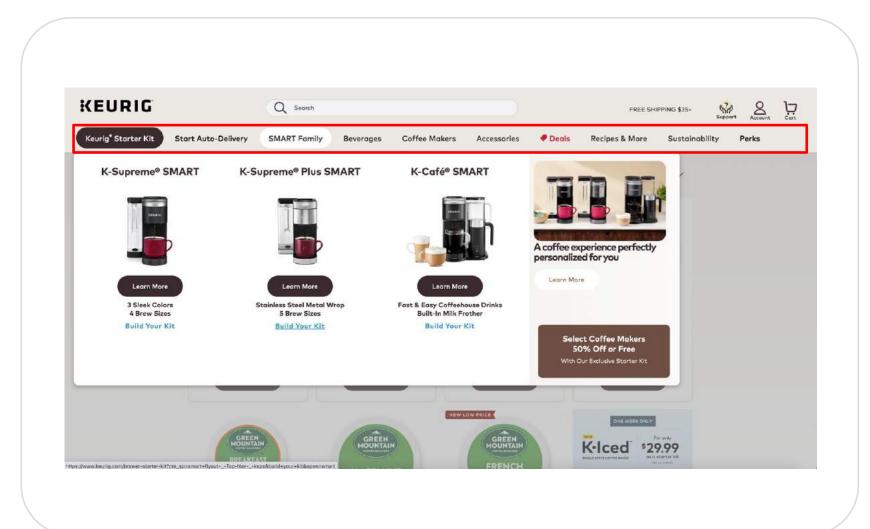


#### Recommendations

Breadcrumb navigation

- Two possible solutions.
- Revise left hand navigation to give better/more clear feedback on where the user is in the site and how they can navigate back to where they came from.
- Add a breadcrumb to the top of the page to provide contextual information and quick links.

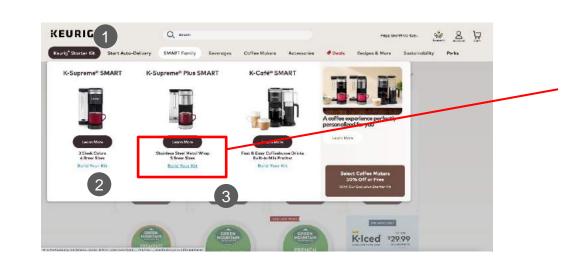
## Navigation: Clear and Consistent Navigation



#### Recommendations

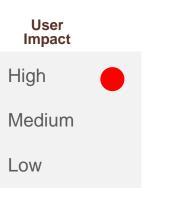
Place a **clear & well – organized navigation bar** at the top of the website, visible on all pages. It should include the primary categories such as "Home, Products Shop, and About Us. **Use standard and easily recognizable labels for these categories.** 

## Navigation: Primary CTA must be Persistent and Present



#### User Disorientation

Here a user has to click at CTA is an essential part of the process of **providing your visitors** with satisfactory navigation. We can use a Highlight button to CTA.

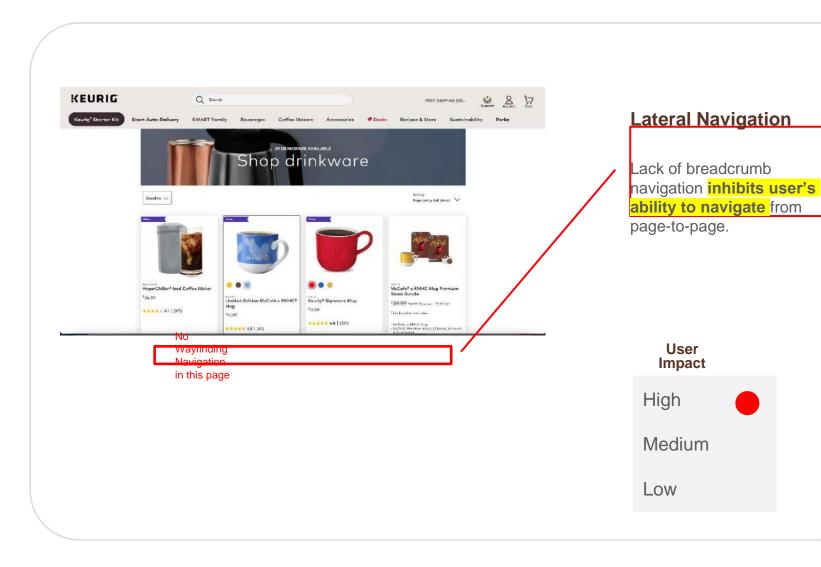


#### **Recommendations**

Global navigation systems are the single consistent navigation element for users. It has a huge impact on usability. Therefore it should be subjected to intensive usability testing.

- Global navigation systems are always evolving, from megamenus to vertical bars to horizontal bars.
- A site-wide navigation system must enable direct access to key areas and functions no matter where the user travels across the site's hierarchy.
- Breadcrumbs are also a necessary visual aid and quick escape route for the lost user.

## Navigation: Wayfinding and Orientation for the Desktop

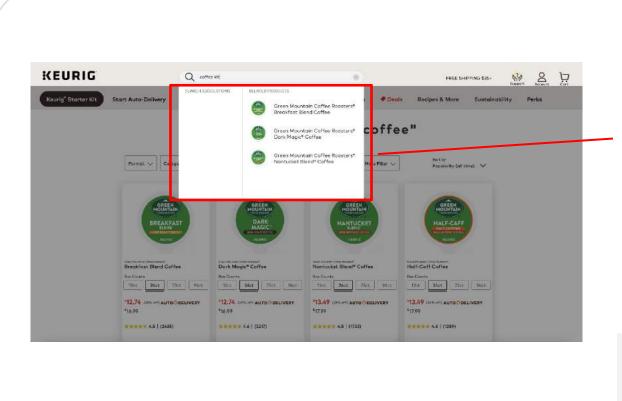


#### Recommendations

Users encounter digital environments similar to physical ones: they make mental models of their surroundings and find their way around using their own model.

- Introduce a global breadcrumb trail in a logical page locations to enable users to quickly orientate and quickly link to contextually relevant information.
- Alternatively, consider revising the left-side (primary) navigation scheme to provide clearer feedback on user's current location.

## Navigation: Search Results Formatting and Style



#### Suggestion Link Conventions

Suggestions are shown in the search results has a significant effect on how fast users can find the information that they are looking for on your site and gave allrelated results.

User

Impact

High

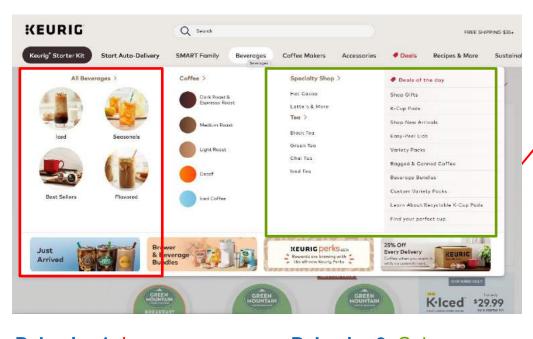
Low

Medium

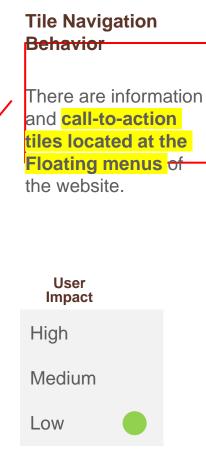
#### Recommendations

 Consider Hiding URL from results and just show title and description to reduce confusion.

## Navigation: Information Hierarchy and Visual Style



Behavior 1: Image changes size and whole tile is clickable Behavior 2: Only black text is clickable, underline on hover.



#### Recommendations

• Unify behavior and try to find a clearer way to show the link.

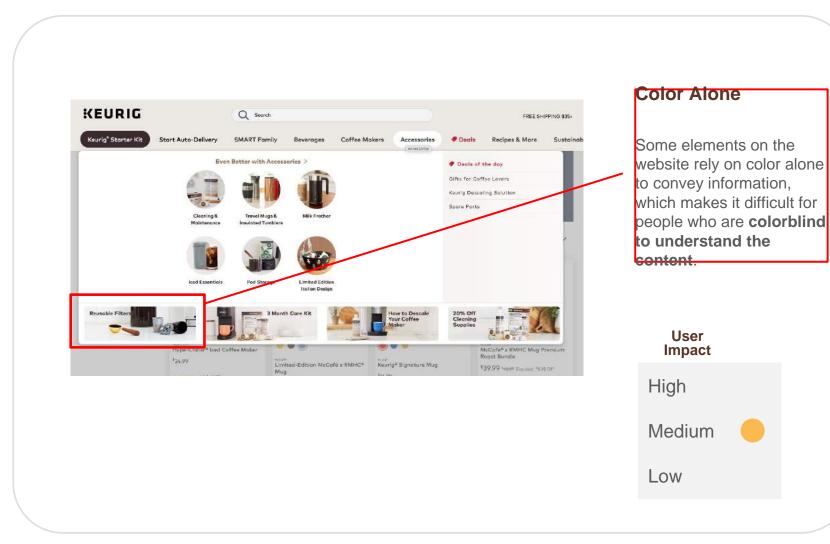
Especially on Mobile as this is very unclear what is interactive and what is not.

- Functionality behaves one way for 1 of the tiles and a different way for the other 3.
- In any tile with a picture the user can click anywhere on the tile to action the link.
- In any tile without the picture the user needs to hover over the secondary text to activate the link.
- The only indicator of a link is an underline when hovering over the exact text.



# Visual Design

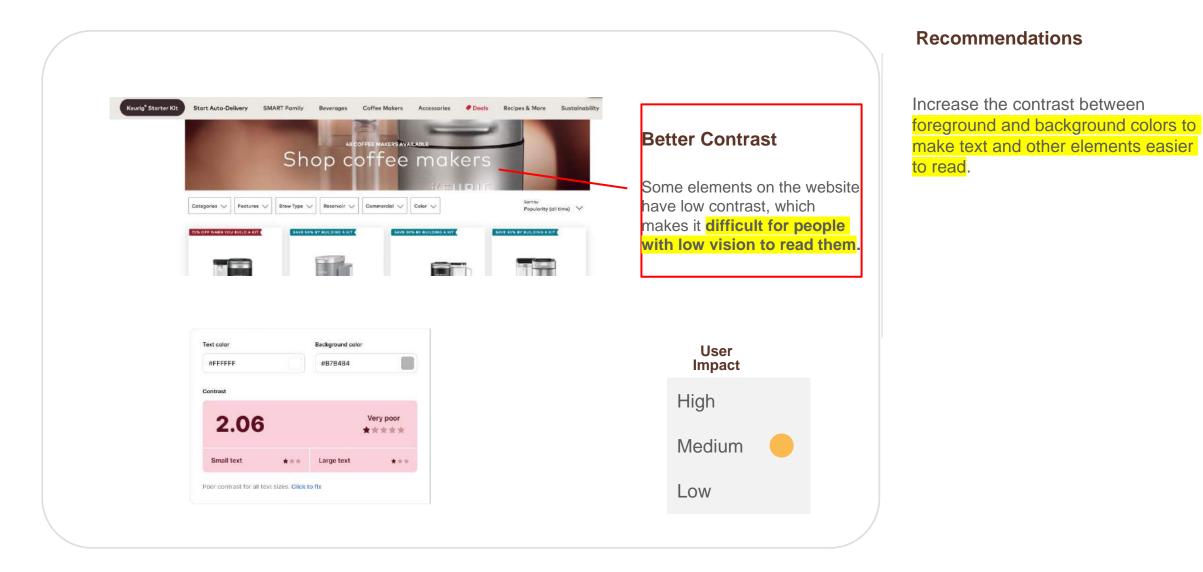
## Visual Design: Use of Color Alone



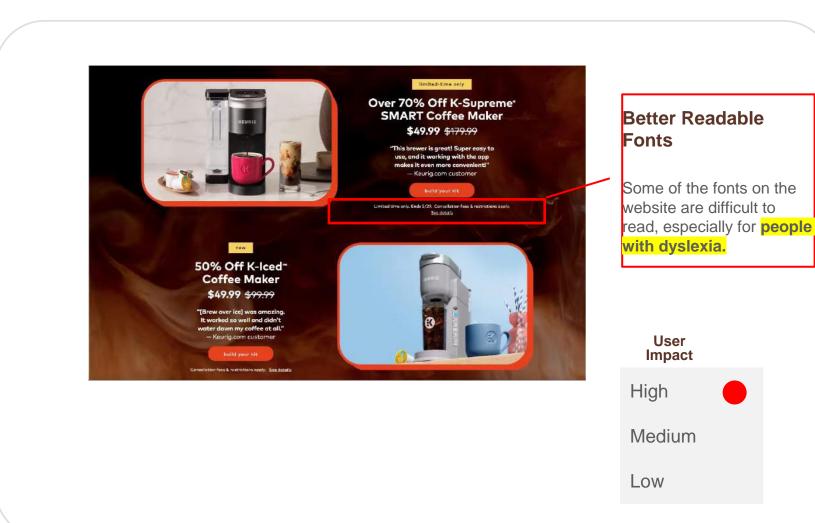
#### **Recommendations**

Use other visual cues, such as text labels, to convey information that is currently conveyed by color alone.

## Visual Design: **Poor contrast**



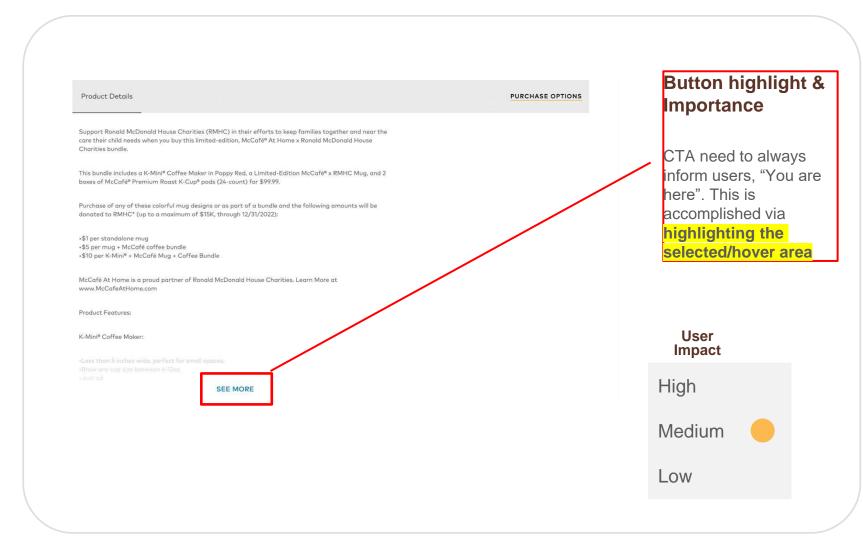
## Visual Design: Unreadable Fonts



#### Recommendations

Use fonts that are easy to read for everyone, such as Arial or Times New Roman.

## Visual Design: Typography and Formatting

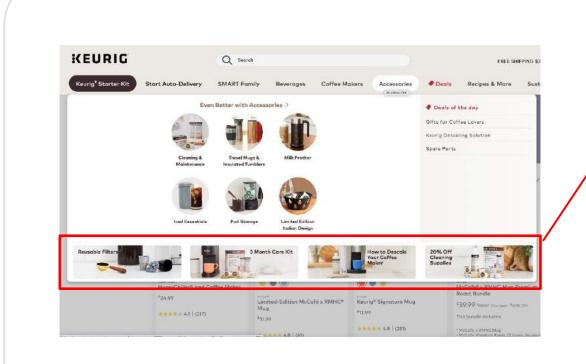


#### Recommendations

CTA Button names in the page are like street signs: they tell us where we're at so we know what we should do.

• Ensure use of CTA clearly convey the Action/information importance to users.

## Visual Design: Color Style Guide and Readability



## Readability of Buttons

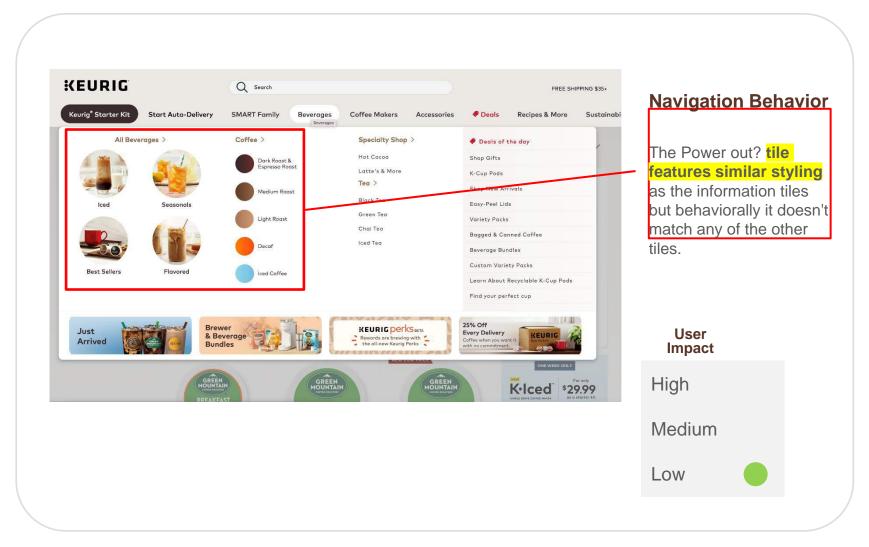
Throughout the site color usage could be improved upon. There are many cases where <mark>colors are used that can create difficulty reading the information.</mark>



#### Recommendations

 Revisit the usage of color on areas that create visual difficulties

## Visual Design: Navigation Tiles and Functionality

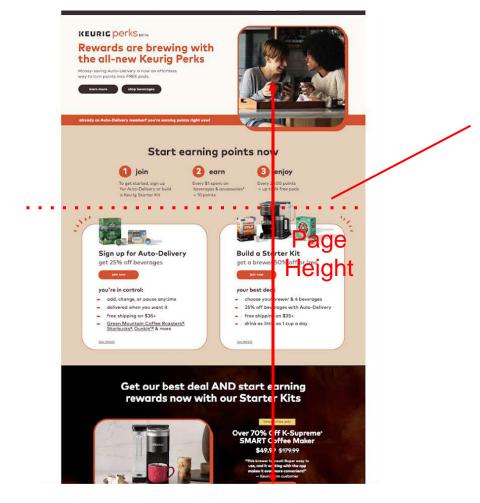


#### Recommendations

When elements in a UI function consistently across the site users are able to quickly learn and know what to expect..

 Refine visual style, to give this more importance. As an energy user understanding the status of my power could be important. Should not blend in with other tiles when scaled to a sub 1428 pixels viewport. Energy icon feels lost floating on right side. Consider moving to left.

## Visual Design: Scrolling Functionality



## Scrolling Behavior

User

Impact

High

Low

Medium

Pages throughout <mark>the site are long and require multiple scrolls</mark> to reach the bottom of the content and return to the top.

#### Recommendations

 Consider reducing the content length on each page or adding a back to the top feature to reduce overall scrolls.