Does your content speak for itself? Voice content and usability

Preston So (he/him) • June 23, 2021 • Boye and Co. member call

Welcome!

Preston So (he/him) is a product architect and strategist, digital experience futurist, innovation lead, developer advocate, three-time SXSW speaker, and author of <u>Voice Content and</u> <u>Usability</u> (A Book Apart, 2021), <u>Gatsby: The</u> <u>Definitive Guide</u> (O'Reilly, 2021), and <u>Decoupled</u> <u>Drupal in Practice</u> (Apress, 2018).

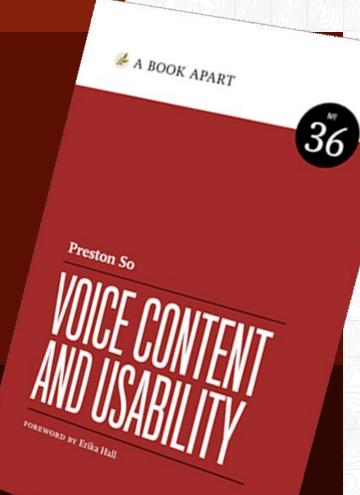
He has been a programmer since 1999, a web developer and designer since 2001, a creative professional since 2004, a CMS architect since 2007, and a voice designer since 2016. A product leader at Oracle, Preston has led product, design, engineering, and innovation teams since 2015 at Acquia, Time Inc., and Gatsby. Preston is an editor at <u>A List Apart</u>, a columnist at <u>CMSWire</u>, and a contributor to <u>Smashing Magazine</u> and has <u>delivered keynotes</u> around the world in three languages. Preston is based in New York City, where he can often be found immersing himself in languages that are endangered or underserved.

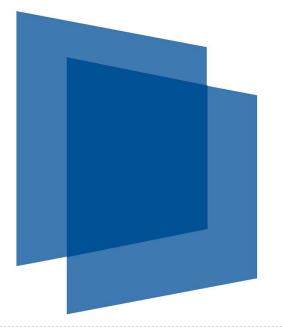
Voice Content and Usability

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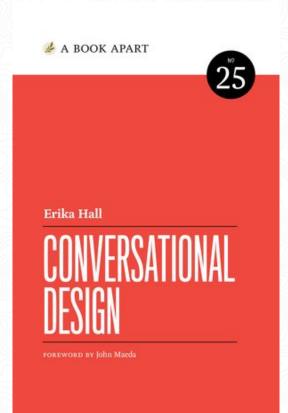
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What we'll cover

- What's in a conversation?
- Web content versus voice content
- Crafting effective dialogues and flows
- The future of voice content
- Epilogue: Voice content in the omnichannel

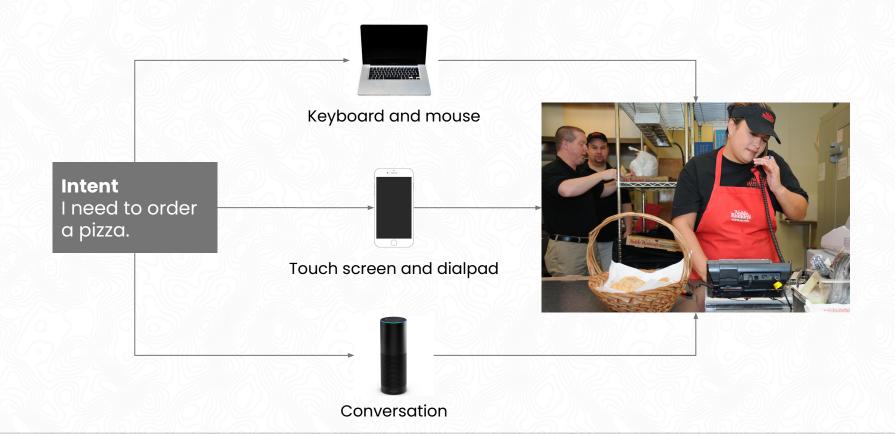
What's in a conversation?



Conversational Design, Erika Hall (A Book Apart)

Conversation is not a new interface. It's the oldest interface. Conversation is how humans interact with one another, and have for millennia. We should be able to use the same principles to make our digital systems and intuitive to use by finally getting the machines to play by our rules.

> **Erika Hall,** Conversational Design



Bringing interfaces to zero

Thinking about human-computer interactions from a screen-based perspective was never truly human-centered from the start. The ideal interface is an interface that's not noticeable at all-a world in which the distance from thought to action has collapsed and merely uttering a phrase can make it so.

> Erika Hall, Conversational Design

Dichotomy of conversational UI

- Unlike chatbots, voice assistants are monochannel (hardware-specific); chatbots are omnichannel and can be used on multiple devices.
- The proliferation of frameworks (Dialogflow, Amazon Lex, Wit.ai, IBM Watson) is blurring the boundary between these.

Transactional voice interactions

Alison: Hey, how's it going? Burhan: Hi, welcome to Crust Deluxe! It's cold out there. How can I help you? Alison: Can I get a Hawaiian pizza with extra pineapple? Burhan: Sure, what size? Alison: Large. Burhan: Anything else? Alison: No thanks, that's it. Burhan: Something to drink? Alison: I'll have a bottle of Coke. Burhan: You got it. That'll be \$13.55 and about fifteen minutes.

Informational voice interactions

Alison: Hey, how's it going?

Burhan: Hi, welcome to Crust Deluxe! It's cold out there. How can I help you?

Alison: Can I ask a few questions?

Burhan: Of course! Go right ahead.

Alison: Do you have any halal options on the menu?

Burhan: Absolutely! We can make any pie halal by request.

Alison: What about gluten-free pizzas?

Burhan: We can definitely do a gluten-free crust for you, no problem. Anything else I can answer for you?

Alison: That's it for now. Good to know. Thanks!

Burhan: Anytime, come back soon!

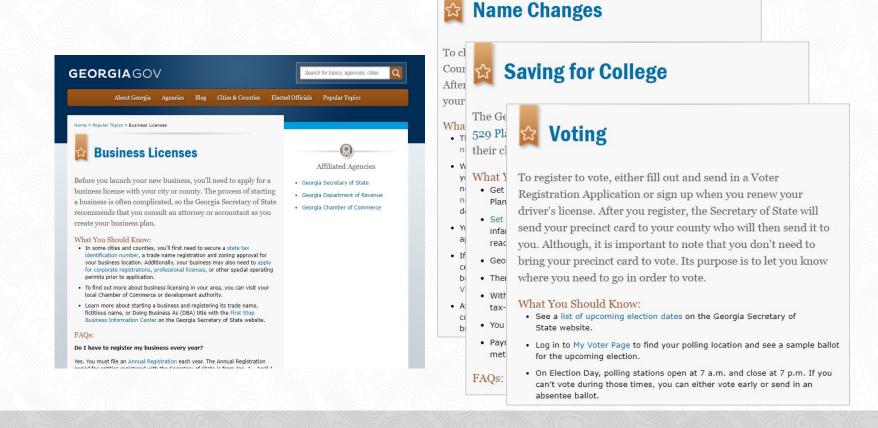
Voice content involves informational, not transactional interactions

Web content versus voice content

Content legibility Is it understandable to a listener rather than a reader?

Content discoverability Is content discoverable for users working with flows, not links?





Ask GeorgiaGov "popular topics" and "FAQs"



The Department of Driver Services (DDS) helps you obtain, renew, or replace learner's permits, ID cards, and licenses. In Georgia, you must be at least 16 years of age (with the exception of drivers with legally blind parents) to carry a full license for everyday, non-commercial vehicles.

What You Should Know:

- You must renew your license every 8 years. Customers may be required to pass a vision test, knowledge exam, and the road skills test.
- You'll pay \$32 to renew your license for 8 years. You may be eligible to receive a \$5.00 discount by renewing online.

Topic

What you should know

Structure of Ask GeorgiaGov content

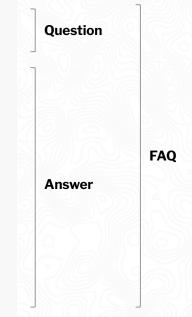
FAQs:

How do I transfer my out-of-state driver's license once I move to Georgia?

Within 30 days of moving to Georgia you are required to visit the nearest Department of Driver Services (DDS) Customer Service Center. Bring along:

- Your current license,
- Proof of your Social Security number,
- 2 proofs of Georgia residency (such as a bank statement, utility bill, or rental contract), and
- Proof of identity (such as a birth certificate, passport, or immigration card).

Additional documents required if you are changing your name. Visit the Department of Driver Services website to create a Custom Checklist and be sure you arrive with the necessary documents.



Structure of Ask GeorgiaGov content

We performed a first-ever omnichannel content audit to ensure single-sourcing

| Title | No. | Recommendation | Proposed Accepted Y/N | Changes Made on Live Site Y/N |
|--|-----|--|-----------------------------|--|
| Getting Copies of Criminal Records (Georgia Crime Information Center) | 2 | fee structure sheet: Proposed: delete sentence, remove link (included later on this page already): "A fee, payable by certified check or money order to the Georgia Crime Information Center, is required." Current: "Reference the <u>fee structure sheet</u> for applicable fees." | Y | Y |
| | | Federal Bureau of Investigation | | |
| -How do I run a background check on an applicant for employment? | 1 | Read more about this: Delete sentence; use previous sentence. Proposed: "If, however, you'd like a fingerprint-based record check, you'll need to fill out a Georgia Crime information Center Service Agreement and complete an enrollment form for the Georgia Applicant Processing Service (GAPS). Current: "If, however, you'd like a fingerprint-based record check, you'll need to fill out a Georgia Crime Information Center Service Agreement and complete an enrollment form for the Georgia Applicant Processing Service (GAPS). <u>Read more about this.</u> " | Y | Y |
| —How much does a background check cost? | 1 | fee structure sheet: Proposed: "Fees vary from \$10 to \$48.25 based on the type of services requested. A fee structure | Y | Partially - added second |

| Keep intact | | |
|--|--|--|
| Reword surrounding sentence per suggestion (action-based link; no context) | | |
| Rewrite phrasing of question; also needs further discussion | | |
| Needs further discussion | | |
| Other | | |
| No action needed | | |

Voice content audit for Ask GeorgiaGov

Like countless other editorial teams Georgia could only manage one single source of truth for content We audited for: voice content legibility voice content discoverability

Before

After

Medicaid has several programs that can help you and your family. <u>Learn</u> <u>more about these programs</u>. Medicaid has <u>several programs</u> that can help you and your family.

For both the elderly and those with disabilities, waiver programs provide medical assistance within the comfort of a home- or community-based environment. Health professionals come to you to help you through recovery. <u>Learn</u> <u>more about these programs</u>.

You can update the name on your passport by securely mailing your application and fee to the U.S. Department of State. <u>Find out what</u> <u>you need to do before sending the</u> <u>application</u>. For both the elderly and those with disabilities, <u>waiver programs</u> provide medical assistance within the comfort of a home- or community-based environment.

You can <u>update the name on your</u> <u>passport</u> by securely mailing your application and fee to the U.S. Department of State.

Addressing links and calls to action

Before

After

The Georgia Lottery Corporation only raises money for the Georgia Pre-K and HOPE Scholarship programs; it does not administer those programs. Read more about the <u>Pre-K Program</u> and the <u>HOPE</u> <u>Scholarship</u>.

The Georgia Lottery Corporation only raises money for the <u>Georgia</u> <u>Pre-K</u> and <u>HOPE Scholarship</u> programs; it does not administer those programs.

Although the state provides a standard <u>homestead exemption</u> of \$2,000 for your primary residence, some counties offer taxpayers even greater exemptions. <u>Learn about these</u> <u>exemptions for your county</u>. Although the state provides a standard <u>homestead exemption</u> of \$2,000 for your primary residence, <u>some counties offer</u> <u>taxpayers even greater</u> <u>exemptions</u>.

Addressing verbosity

| Before | After |
|---|--|
| How do I submit an advertisement? (on "Subscribing to the Farmers & Consumers Market Bulletin" page) ("Which advertisement?") | How do I submit an advertisement to the Farmers and Consumers Market Bulletin? |
| How long can I receive benefits? (on "Applying for Unemployment Benefits" page) ("Which benefits?") | How long can I receive unemployment benefits? |
| How do I start my loan application? (on "Applying for Environmental Loans and Tax Credits" page) ("For <i>which</i> loan?") | How do I start my environmental loan application? |

Addressing context and ambiguity

| Before | After | |
|---|---|--|
| See the differences between an <u>LLC, Sole Proprietorship, and</u> <u>Corporation</u> . | Not sure which business type meets your needs? Learn the differences between an <u>LLC, Sole</u> <u>Proprietorship, and Corporation</u> in the Georgia.gov blog. | |
| Read about <u>licensed practical</u> <u>nursing requirements and</u> <u>transferring a license from</u> <u>another state</u> . | You'll follow a different application process to get your nursing license depending on if and where you've been licensed before. The Georgia Secretary of State website provides <u>licensed practical</u> <u>nursing requirements</u> and <u>licensed registered nursing</u> <u>requirements</u> . | |

Facilitating cross-channel interactions: sometimes compromise is best

Eight months later ...

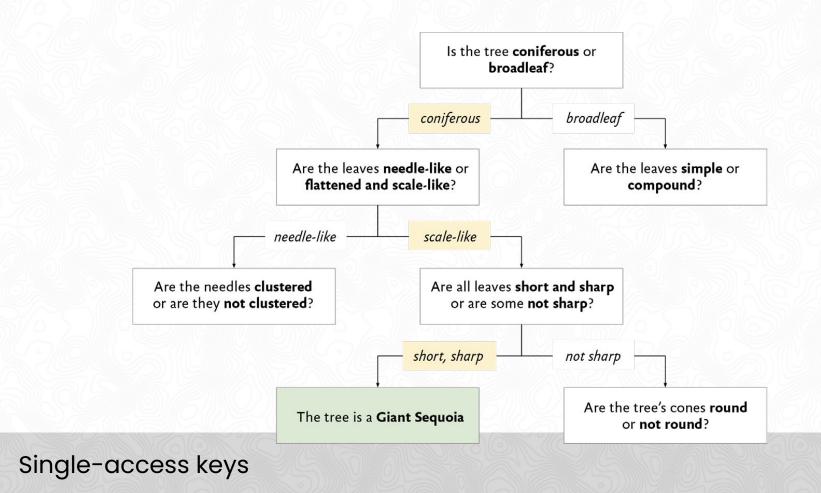
- **79.2%** success rate on all interactions
- **71.2%** of all interactions led to agency phone number being provided

Most popular keywords:

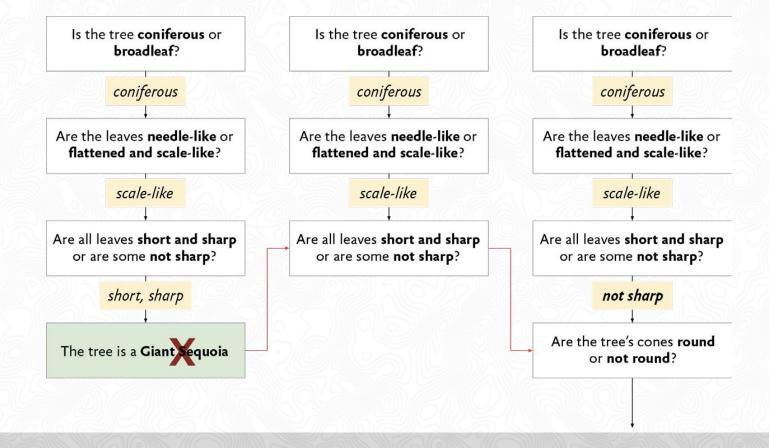
- vehicle registration
- driver's licenses
- state sales tax

The only sustainable approach is a single source of truth for content reused across channels But how do we address issues like the nuances and navigation of spoken—not written—content?

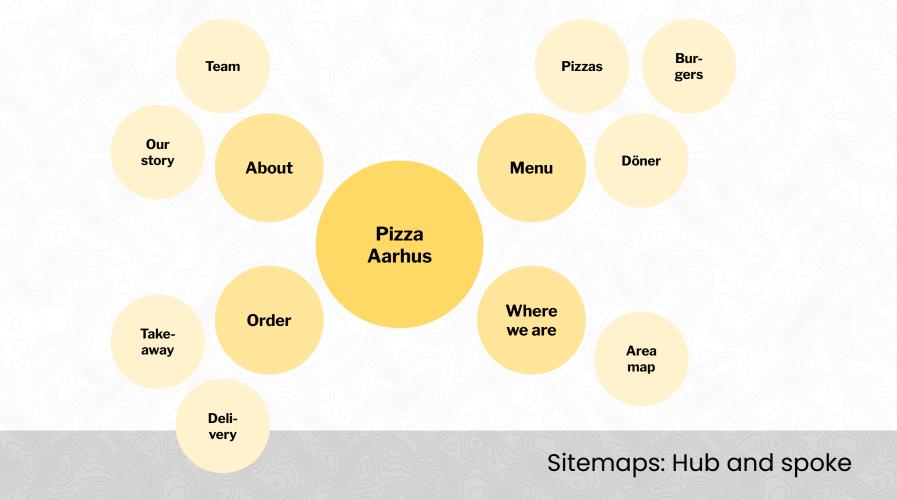
Crafting effective dialogues and effective flows







Single-access keys

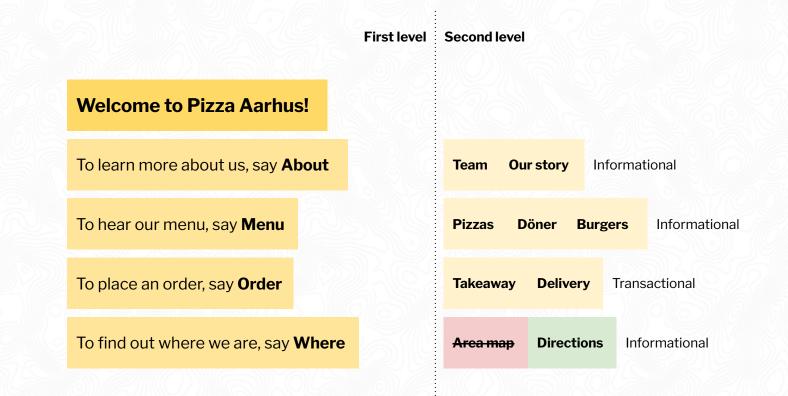


| Pizza Aarhus | |
|--------------|----------------------|
| About | Team Our story |
| Menu | Pizzas Döner Burgers |
| Order | Takeaway Delivery |
| Where | we are Area map |

Navbars: Lists of links

In a web-optimized IA, we can see everything's structure

In a voice-optimized IA, the structure has to be given to us



Conversational navigation: Limited list of options

Information architecture requires guided, unidirectional flows, not sitemaps or navbars The future of voice content

When you hear Alexa or Siri speak, who is the person you picture?

Voice interfaces must represent the richness of human language

The conversational singularity will make voice interfaces indiscernible from natural human conversation

But at what cost? Conversational singularity for whom?

Usability research shows that some users prefer more artificial conversational interactions **Epilogue: Voice content in the omnichannel**

Voice interfaces are the most human of interfaces

Voice content must be human-centered in its language and its flows Voice content cannot stand alone alongside web content Voice content must be part of a larger omnichannel strategy that is channel-agnostic

Resources

- <u>"Personality for voice interfaces: Humanizing the most human of interfaces"</u> (preston.so, June 22, 2021)
- <u>"How to classify interactions for conversational interfaces"</u> (preston.so, June 8, 2021)
- <u>"Register, diglossia, and why it's important to distinguish spoken from written</u> <u>conversational interfaces"</u> (preston.so, June 2, 2021)
- <u>"How we integrated Alexa with Drupal for Ask GeorgiaGov, the first voice interface for residents of Georgia"</u> (preston.so, May 26, 2021)

Resources

- <u>"Can voice assistants displace screen readers?"</u> (preston.so, May 19, 2021)
- <u>"Conversational maxims and the cooperative principle in voice interface design"</u> (preston.so, May 11, 2021)
- <u>"Can your content speak for itself?"</u> (preston.so, May 5, 2021)
- <u>"Voice interface design is about good writing, not just good design"</u> (*preston.so*, April 16, 2020)
- <u>"Affordance and wayfinding in voice interface design"</u> (*preston.so*, March 3, 2020)

Resources

- <u>"Building usable conversations" series</u> (preston.so, January 18, 2019)
- <u>"Usability testing for voice content"</u> (A List Apart, April 9, 2020)
- <u>"Ask GeorgiaGov: Answering Georgians' questions with Alexa and Drupal"</u> (VOICE Summit Newark, July 25, 2018)
- <u>"Talk over text: Conversational interface design and usability"</u> (*Frontend United Utrecht*, June 1, 2018)

Thank you!

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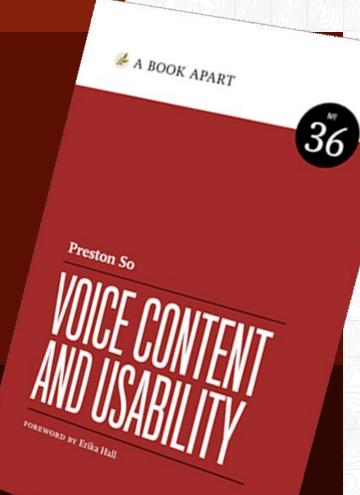
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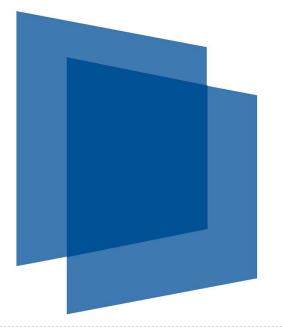
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