2023 BOSTON

Accessibility in Communications







Speakers

- Discussion Leader Amy Nehl, Director of Public Affairs | Oregon Housing and Community Services
- Nichole Bui, Vice President | AEM Corporation
- Chelsea Bunch, Director of Equity, Diversity & Inclusion |
 Oregon Housing and Community Services
- Devon Hirth, Staff User Experience Designer, Safety Net Innovation Lab | Code for America
- Marcelo Paiva, Inclusive Designer, Accessibility Specialist | AEM Corporation





Introductions

Amy Nehl (she/her)
Director of Public Affairs

Chelsea Bunch (she/her)
Director of Equity, Diversity & Inclusion







Importance of Accessibility

Accessible communications ensure that anyone can get the information they need and respond to that information with a similar amount of time and effort.

- Inclusivity improves outreach to residents and partners and even you
 - The Curb Cut effect
- Increases the methods and tools used to communicate
- It's the right thing to do
- It's the law! Protected under the Americans with Disability Act (ADA)
- Helps remove barriers in the communities served

2023 BOSTON

WCAG and Regulations

Marcelo Paiva and Nichole Bui, AEM Corporation







AEM Corporation Background

- Presenters
 - Marcelo Paiva Inclusive Design & Accessibility
 - Nichole Bui Accessibility Champion
- About AEM
 - Woman-owned consulting firm based out of Herndon, VA
 - High-visibility projects in website modernization, digital accessibility, user experience, data science, privacy, and cybersecurity







State of Digital Accessibility

- 96.3% of the internet today is not fully accessible to people with disabilities.
 - Home pages had detected WCAG 2 failures.
 - Million home page list combines the top home pages and domains from the Majestic Millions list, the Alexa Top 1,000,000 web sites, and the DomCop top 10 million domains.
- ADA website accessibility lawsuits filed against businesses in Federal court went up 400% between 2017 and 2022.

Sources:

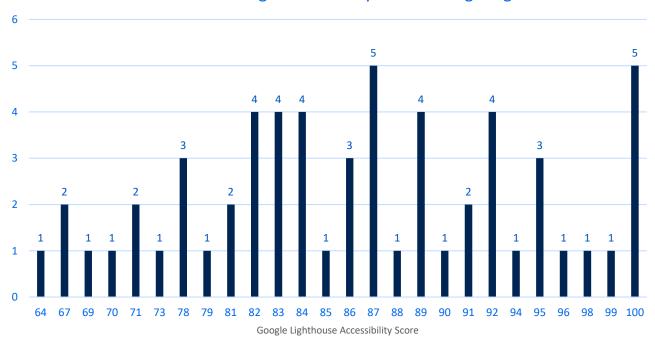
- https://webaim.org/projects/million/
- https://www.adatitleiii.com/2023/01/plaintiffs-set-a-new-record-for-website-accessibility-lawsuit-filings-in-2022/





State of HFA Compliance

HFA Website Home Page Accessibility Score - Google Lighthouse



Scores based on Google Lighthouse audit in early October 2023 for HFA home page.

Where do you stand? We are happy to discuss your score from our audit.

Key Takeaway:

 Most sites have an opportunity to be more accessible.

Manual testing is always needed:

- Each automated tool has their own scoring methodology.
- Automated tools can only detect a subset of issues and do not guarantee accessibility.





Reading W3C Guidelines is not fun

W3C Recommendation	IADLE	OF CONTENTS	Web C
		Abstract	(WCAC
omn		Status of This Document	W3C Reco
Rec		Introduction	
$_{\bar{\cup}}$	0.1	Background on WCAG 2	This version:
≶	0.2	WCAG 2 Layers of Guidance	https://www
	0.3	WCAG 2.1 Supporting Documents	Latest publishe
	0.4	Requirements for WCAG 2.1	https://www
	0.5	Comparison with WCAG 2.0	Latest editor's
	0.5.1	New Features in WCAG 2.1	https://w3c.
	0.5.2	Numbering in WCAG 2.1	Implementation
	0.5.3	Conformance to WCAG 2.1	https://www
	0.6	Later Versions of Accessibility Guidelines	Previous versi
	1.	Perceivable	https://www
	1.1	Text Alternatives	Previous Reco
	1.1.1	Non-text Content	https://www
	1.2	Time-based Media	Editors:
	1.2.1	Audio-only and Video-only (Prerecorded)	Andrew Kir
	1.2.2	Captions (Prerecorded)	Joshue O C
	1.2.3	Audio Description or Media Alternative	Alastair Ca Michael Co
	1.2.0	(Prerecorded)	
	1.2.4	Captions (Live)	WCAG 2.0 Edit
	1.2.5	Audio Description (Prerecorded)	Ben Caldw
	1.2.6	Sign Language (Prerecorded)	Loretta Gua Gregg Vand
+	1.2.7	Extended Audio Description	Wendy Chi

Content Accessibility Guidelines G) 2.1



ommendation 05 June 2018

w.w3.org/TR/2018/REC-WCAG21-20180605/

ned version:

w.w3.org/TR/WCAG21/

c.github.io/wcag/21/guidelines/

on report:

w.w3.org/WAI/WCAG21/implementation-report/

w.w3.org/TR/2018/PR-WCAG21-20180424/

ommendation:

w.w3.org/TR/2008/REC-WCAG20-20081211/

irkpatrick (Adobe)

Connor (Invited Expert, InterAccess)

ampbell (Nomensa)

ooper (W3C)

itors (until December 2008):

well (Trace R&D Center, University of Wisconsin-Madison)

uarino Reid (Google, Inc.)

nderheiden (Trace R&D Center, University of Wisconsin-Madison)

nisholm (W3C)

World Wide Web Consortium (W3C) Web Content **Accessibility Guidelines** (WCAG 2.0), a globally recognized voluntary consensus standard for web content and the Information and Communication Technology (ICT)





Web Content Accessibility Guidelines (WCAG)

4 Principles

1. Perceivable

interface components need to be presentable to a user in a way that they can discern regardless of which senses they do or do not have use of.

2. Operable

user interface and navigation components need to be able to be used by everyone, including people who do not use a standard keyboard and mouse.

3. Understandable

people must be able to understand information in your web content, how to find the information they want, and how to use any tools or features offered.

4. Robust

can be accessed on a variety devices, including assistive technologies, and remain accessible as technology and user agents evolve.

13 Guidelines

- 1.1 Text Alternatives
- 1.2 Time-Based Media
- 1.3 Adaptable
- 1.4 Distinguishable
- 2.1 Keyboard Accessible
- 2.2 Enough Time
- 2.3 Seizures and Physical Reactions
- 2.4 Navigable
- 2.5 Input Modalities
- 3.1 Readable
- 3.2 Predictable
- 3.3 Input Assistance

4.1 Compatible





The WCAG 2.2 – Levels of Conformance

Level	Understanding	You're addressing Accessibility
A (lowest)	Essential If this isn't met, assistive technology may not be able to read, understand, or fully operate the page or view.	After QA
AA (low bar)	Ideal Support (Section 508) Required for multiple government and public body websites.	Before Development
AAA (highest)	Specialized Support This is typically reserved for parts of websites and web apps that serve a specialized audience.	Before Design





It is important to invest in accessibility from the start. Estimates for fixing accessibility issues in production range from 30x to 100x more than addressing it early in the design process.





WCAG 2.2 is here!

Became official W3C Recommendation on Oct 5, 2023.

Changes:

Guideline 2.4 Navigable

- 2.4.11 Focus Not Obscured (Minimum) (AA)
- 2.4.12 Focus Not Obscured (Enhanced) (AAA)
- 2.4.13 Focus Appearance (AAA)

Guideline 2.5 Input Modalities

- 2.5.7 Dragging Movements (AA)
- 2.5.8 Target Size (Minimum) (AA)

Guideline 3.2 Predictable

• 3.2.6 Consistent Help (A)

Guideline 3.3 Input Assistance

- 3.3.7 Redundant Entry (A)
- 3.3.8 Accessible Authentication (Minimum) (AA)
- 3.3.9 Accessible Authentication (Enhanced) (AAA)





Section 508

Rehabilitation Act of 1973

• Prohibits discrimination on the basis of disability in federal programs or programs receiving federal aid or employment.

1998 refresh

• Amended to include Section 508—which incorporates the "digital" side of accessibility; required federal agencies to make their electronic and information technology accessible to people with disabilities.

2017 refresh

- Expanded to include electronic documents.
- Synchronized the U.S. federal government with worldwide accessibility standards such as the W3C's WCAG 2.0 AA.





Americans with Disabilities Act 1990

- ADA Title II requires state/local governments to give people with disabilities an equal opportunity to benefit from all of their programs, services, and activities.
- Title II Proposed 2023 refresh
 - The Department of Justice proposed technical standards for web content and mobile app accessibility to give public entities greater clarity in exactly how to meet their ADA obligations and to help ensure equal access to government services for people with disabilities.
 - Key proposals
 - Adopt the WCAG Version 2.1, Level AA as the technical standard.
 - Web content and mobile apps would have to comply with the technical standard.





ADA Title II Compliance Deadline

• With this upcoming rule <u>state and local governments</u> would have to comply to Title II amendments of the ADA for <u>web and mobile app accessibility</u>.

Public Entity Size	Compliance Date
Fewer than 50,000 persons or special district governments	Three years after publication of the final rule.
50,000 or more persons	Two years after publication of the final rule.





Tips for Compliance

- Prioritize accessibility during requirements and design phases Include individuals with disabilities from day-one. Use content-first approach.
- Use combination of automated and manual testing Use tools to identify common digital accessibility issues. Consult with persons with disabilities and assistive technology specialists to identify and remove barriers only a human can identify.
- **Do not use accessibility overlays** as they do not actually solve critical accessibility problems in the code.
- Continuous remediation fix your website as you go. Address color contrast, navigation, code, and content reading level at every opportunity.





Reach out to learn more about your site's accessibility score

aemcorp.com

A Mission for Accessibility

- We do more than advocate for usability We help to set W3C standards. We also build tools for both designers and developers that make it hard not to be accessible from the start.
- We don't <u>just</u> use the US Web Design System (USWDS) We manage the code for the most accessible version of the USWDS (WGAC 2.1 Level AAA).
- We hear how painful overlays are to navigate We are creating the first "accessibility center" that is native to the web experience and respects the privacy of all users. Change language, reading level, layout, and more.





References

- https://www.w3.org/TR/WCAG21/
- https://www.w3.org/WAI/standards-guidelines/wcag/new-in-22/#status-timeline-changes
- https://bootcamp.uxdesign.cc/understanding-web-accessibility-standards-ada-section-508-and-wcag-compliance-143cfb8b691e
- https://www.ada.gov/notices/2023/07/20/web-nprm/
- https://www.regulations.gov/document/DOJ-CRT-2023-0007-0001/





Thank you!

To stay in touch, please connect by email or on LinkedIn.

- Nichole Bui, Vice President | AEM Corporation
 - nichole.bui@aemcorp.com
 - 703-885-8021 (Office)
 - LinkedIn

- Marcelo Paiva, Inclusive Designer, Accessibility Specialist | AEM Corporation
 - mpaiva@aemcorp.com
 - LinkedIn





Focus on Language Access

Chelsea Bunch (she/her)

Director of Equity, Diversity & Inclusion







Translation vs. Transcreation

Navigation services - Services for people at risk of or experiencing homelessness to help navigate the different resources and aid available to them and that fit their unique needs so that they can have a safe, healthy and affordable place to live and thrive

- Chinese Mandarin direct translation:导航服务
 - Translated as directional navigation help like North, East, West, and South
- Chinese Mandarin transcreation: 帮扶指导服务
 - Definition incorporates context that this helps people get connected to the right services

We cannot expect others to know the jargon and nuances of housing finance and affordable housing language.





Incorporating Accessibility into Program Design

- Goal of Oregon Emergency Rental Assistance Program ERA program rollout was speed.
- To increase accessibility, OHCS:
 - Edited application based on feedback
 - Changed website language and layout to be more accessible
 - Program-specific webpage
- Incorporated lessons learned into other program areas, like Oregon Homeowner Assistance Fund (HAF)
- Contracted translation services





Language Access

- To improve state inclusivity, OHCS requested additional funding for language access services, which was suggested by the Racial Justice Council and supported by the community.
- During 2023-25 Legislative Session, Oregon Legislators approved \$1.7 million for increased language access in agency programs.
- Prior to approval OHCS engaged with:
 - Technical Assistance providers
 - Elected officials





Language Access Goals

- Understand our internal process and gaps
- Create policy that supports process
- Build out needs assessment through RFP for culturally specific organizations
- Meet Statewide Housing Plan goals, which includes equity and racial justice
- Determine how to best spend funding
- Making transcreation the goal rather than just translation





Establishing Language Services

At OHCS we have:

- Three translation vendor contracts in place serving different needs
- Created a glossary of housing finance terms transcreated into Spanish and Mandarin Chinese

At OHCS we are working to:

- Include language access in all programs
- Build structure so future staff can keep translation going
- Include requirements in RFPs and contracts so our partners can meet language requirements

2023 BOSTON

Devon Hirth | He/Him/His Staff User Experience (UX) Designer Code for America







My "why?"

- I experienced the need for accessible services during my time at the New York City Mayor's Office.
- We always prioritized creating accessible services, however, I contracted COVID early during the pandemic and experienced reduced cognitive function while trying help New Yorkers navigate rapidly changing information through communications.





CODE for AMERICA

We're people centered problem solvers Showing that with the mindful use of technology Government can work well for *everyone*





Our Values

1

Listen first

2

Include those who've been excluded

3

Act with intention





We believe...

- Services can be simple, accessible, and easy to use
- Outcomes can be measurably better
- Better can cost less
- We can serve everyone with respect and dignity





Core accessibility principles

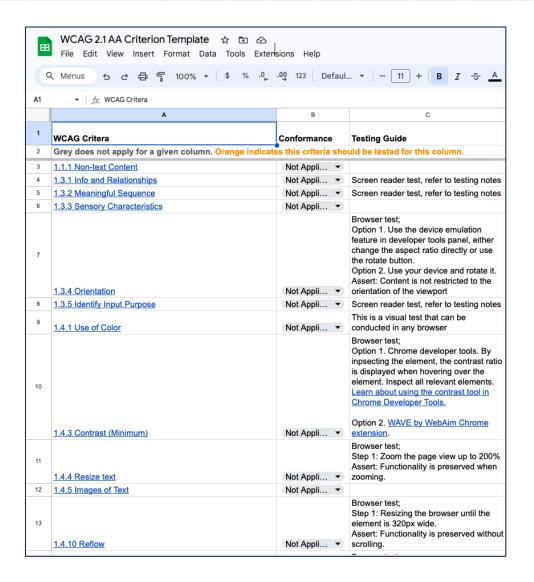
- Our service should accommodate regardless of a client's vision, display quality, or light environment.
- Our service should be *forgiving to those with motor or visual disabilities*.
- Using our service should accommodate people under high stress, time pressure, or with cognitive disabilities.
- Our service should always be written in plain, simple language.





Accessibility standards

- Heuristics
- Honeycrisp Design System (internal)
- Web Content Accessibility Guidelines 2.1 AA
- We meet our partners where they are
 - Voluntary Product Accessibility Template or VPAT assessments

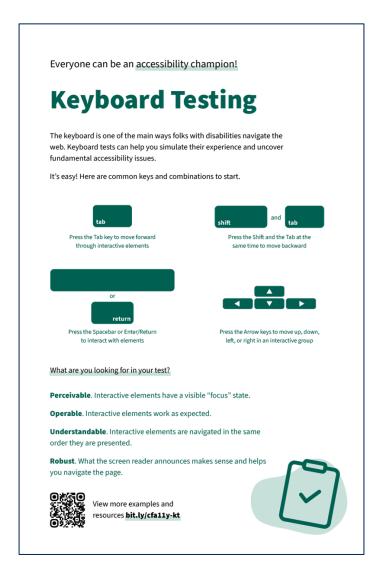






Moving forward

- Empower more "champions" within the organization
- Move toward a "beyond compliance" mindset
- Invest in impact
 - Adopt the U.S. Web Design System (public)
 - Participate in policy, "<u>Nondiscrimination on the Basis of Disability; Accessibility of Web Information and Services of State and Local Government Entities"</u>







CODE for AMERICA SAFETY NET

INNOVATION LAB

Advancing Human-Centered Benefits Delivery

Mission: Transform the social safety net by utilizing human-centered technology and movement strategy to remove barriers to public benefit enrollment, usage, and retention

Vision: A modern, people-centered social safety net that provides economic security and health equity and serves all of us, nationwide







Our work

We're partnering with states nationwide to...

- ... optimize digital enrollment
- ... streamline renewals
- ... facilitate and integrate **feedback**

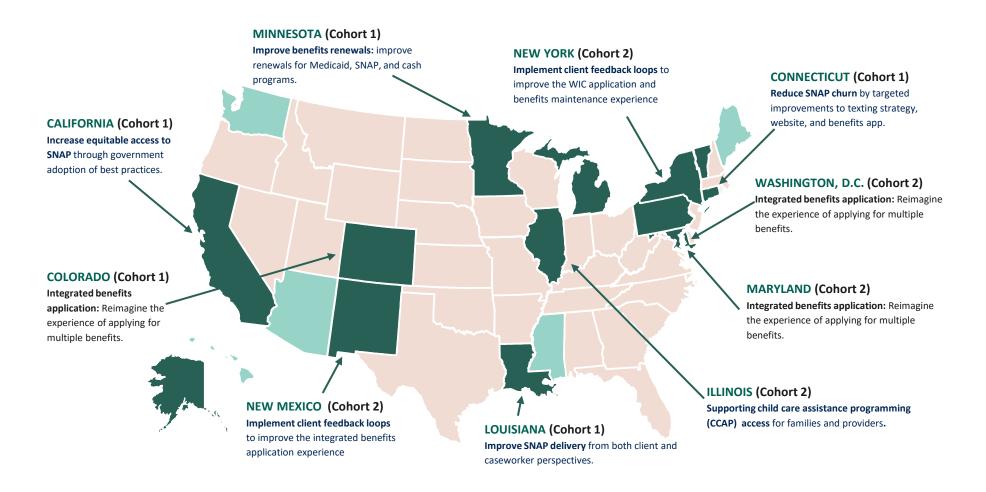




Where we've worked

Current and former partners

Consultative visits







From values, to principles, to standards, to practice

Here are the top 10 things to always remember about good form design. Synthesized from our values, to principles, to standards. This certainly doesn't cover everything. However, beyond this list, there are many great in-depth resources to seek out and guides about making digital forms inclusive for everyone.





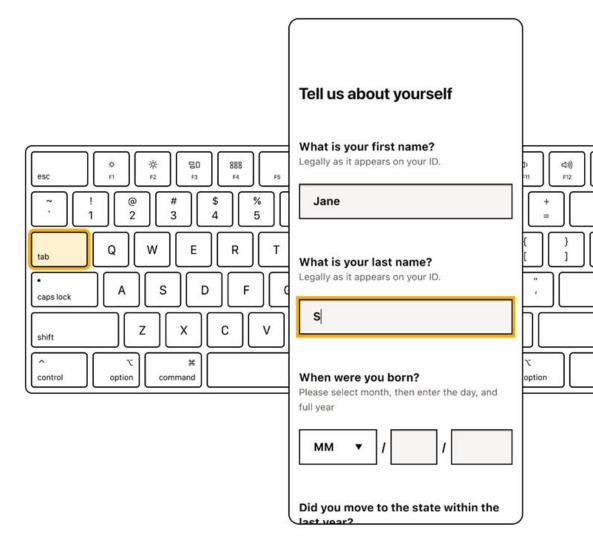
Make sure people can fill out the form on their phones, whether upright or rotated, and in different lighting conditions.







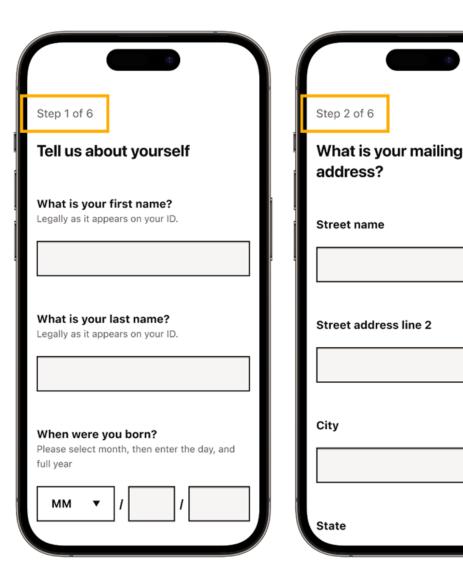
People should be able to use their keyboard to move around and fill out the form. This means they can only use the tab key, shift and tab keys, the spacebar, the enter key, and the arrow keys.







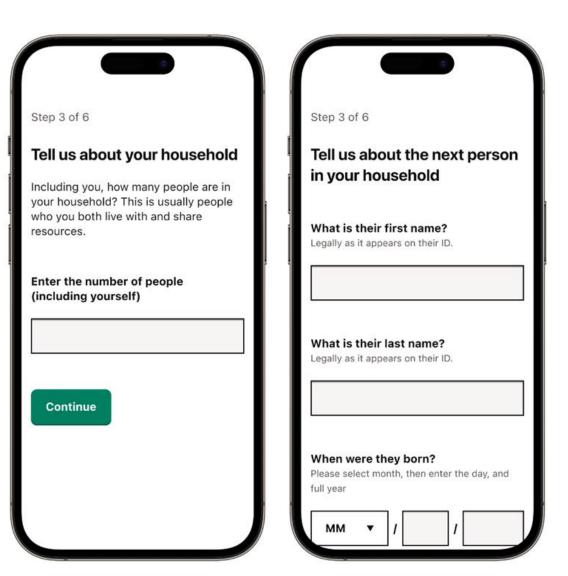
If your form is complicated, break it into sections and pages. Each page should have around 1 to 5 questions. People should be able to skip questions that don't apply to them.







Arrange the questions in a way that feels like a normal conversation. People shouldn't have to repeat themselves or remember things from other pages.







Each question in the form should have a visible, meaningful, easy-to-understand label and interactive form element. Each label should be close to its form element and associated with each other through coded attributes.

1. Visible, meaningful, easy-to-understand label

2. Form element

What is your first name?
Legally as it appears on your ID.





For tricky questions, provide helpful information before the form element. This could be instructions about formatting an answer or answering the question accurately.

1. Helpful information

Tell us about your household

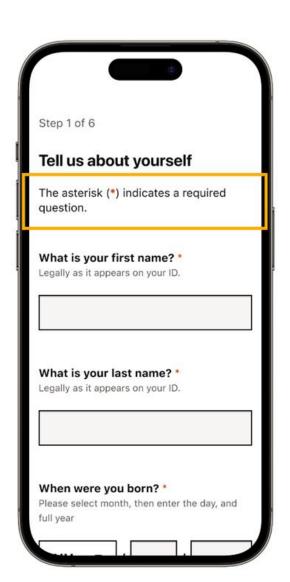
Including you, how many people are in your household? This is usually people who you both live with and share resources.

Enter the number of people (including yourself)





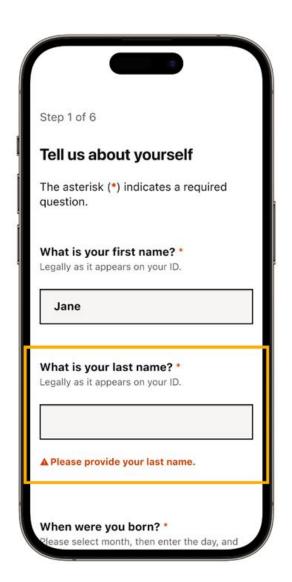
Consider whether you need optional questions in your form and clearly show which questions are required.







When someone makes a mistake or misses a required question, use assertive but forgiving validation. The message should be near the question they need to fix.







If there are many questions or choices for a particular question, like checkboxes, group them with a clear label (and ensure they use the fieldset HTML element).

1. Label

2. Multiple choices

What sources did you receive income from? Please check all that apply.

Jobs (salary, wages,
commissions or tips)

Self-employmen	ľ
----------------	---

Unem	nlow	ment
 Onem		HEHL







Design the appearance of your form questions to look familiar, use a big and simple (sans-serif) font, and have good contrast. Use dark or black text on a light or white background with a dark border.

1. Big, simple font 2. Good contrast

What is your first name? Legally as it appears on your ID.					





Wait, you said ten, right...? Well, this one is so important that it must be included. Make sure your form can be read in the language your users prefer.

1. Language selector

2. Start forms in preferred language







More

- Come learn more at **FormFest**. Better government, one form at a time
 - A free virtual event showcasing governments working to make services
 accessible to everyone through online forms. Presented with Code for America
 and the Digital Service Network at the Beeck Center for Social Impact +
 Innovation. codeforamerica.org/events/formfest-2023
- codeforamerica.org/safetynetpartner
 - A great way to receive updates on our best practices, etc.