## Accessibility Tips & Tricks To Performing An Accessibility Audit

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@atendesign

#### sign aten.io













#### Poynter.

















## Work That Poynter.





## Accessibility Tips & Tricks To Performing An Accessibility Audit



# 



# **53 million adults live with some form of a disability in the USA**

- CDC: CENTERS FOR DISEASE CONTROL & PREVENTION

#### That's 1 in every 5 aduits in the USA

- CDC: CENTERS FOR DISEASE CONTROL & PREVENTION

#### What is accessibility? Easy to obtain, use and understand.

## P R

## P: Perceivable R

## P: Perceivable O: Operable

#### P: Perceivable O: Operable Understandable

## 

needs an accessible website?

#### **Everyone benefits from** an accessible website.

## There are 4 main categories

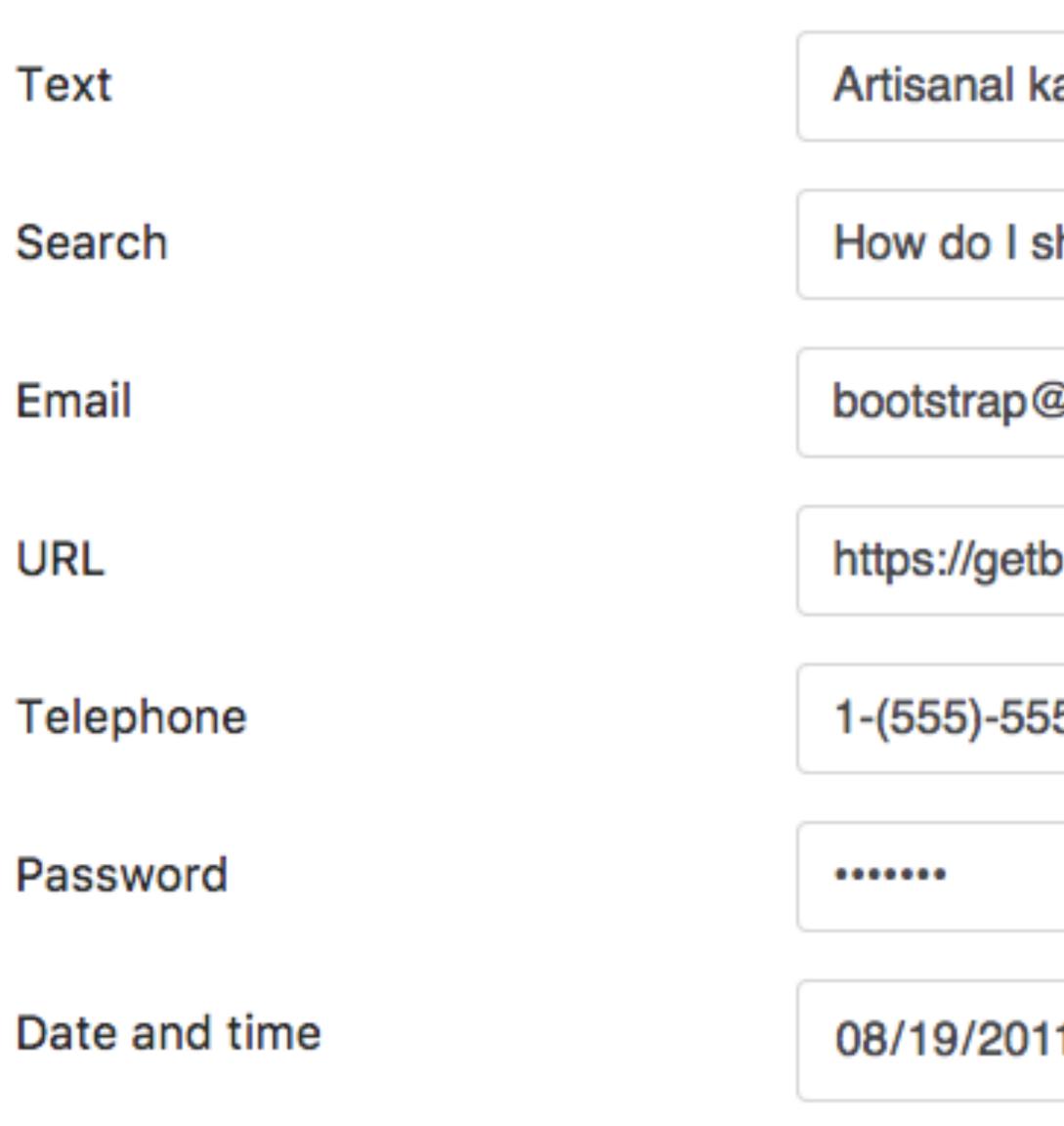
## Visual Motor or Physical Auditory Cognitive



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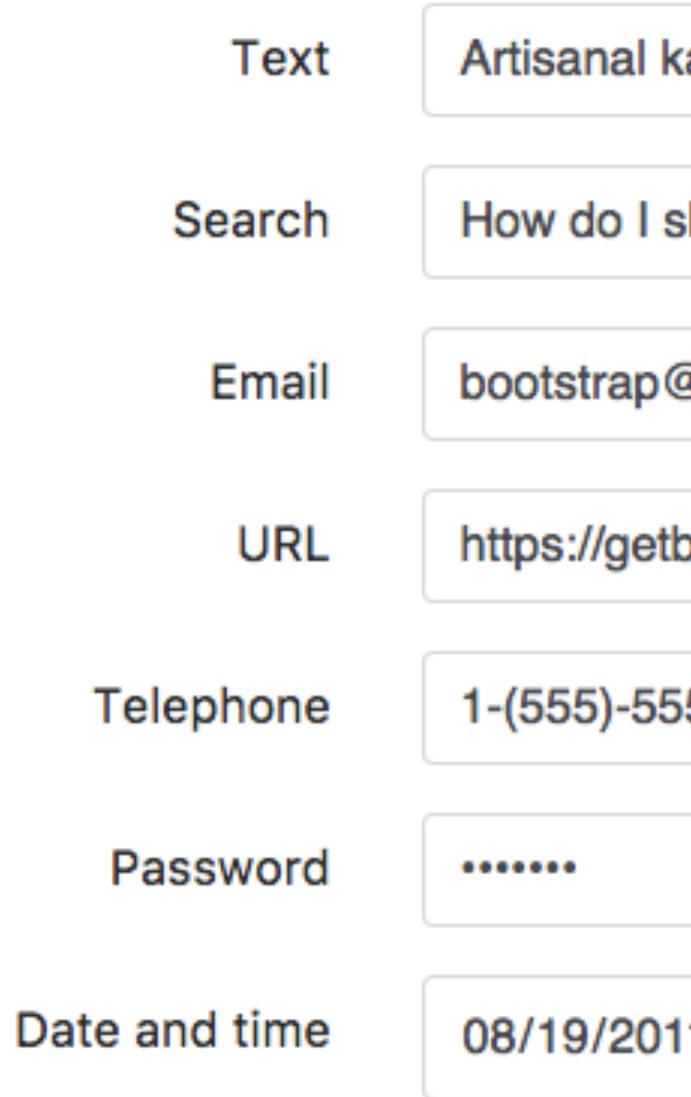
#### VISUAL What does this mean?

- Someone completely non sighted
- Someone with low, obstructed, or constricted vision
- My color blind father
- Each of our aging grandparents



kale
shoot web
@example.com
tbootstrap.com
55-5555
11, 01:45 PM





kale
shoot web
@example.com
tbootstrap.com
55-5555
11, 01:45 PM



#### Text

#### Artisanal kale

#### Search

How do I shoot web

#### Email

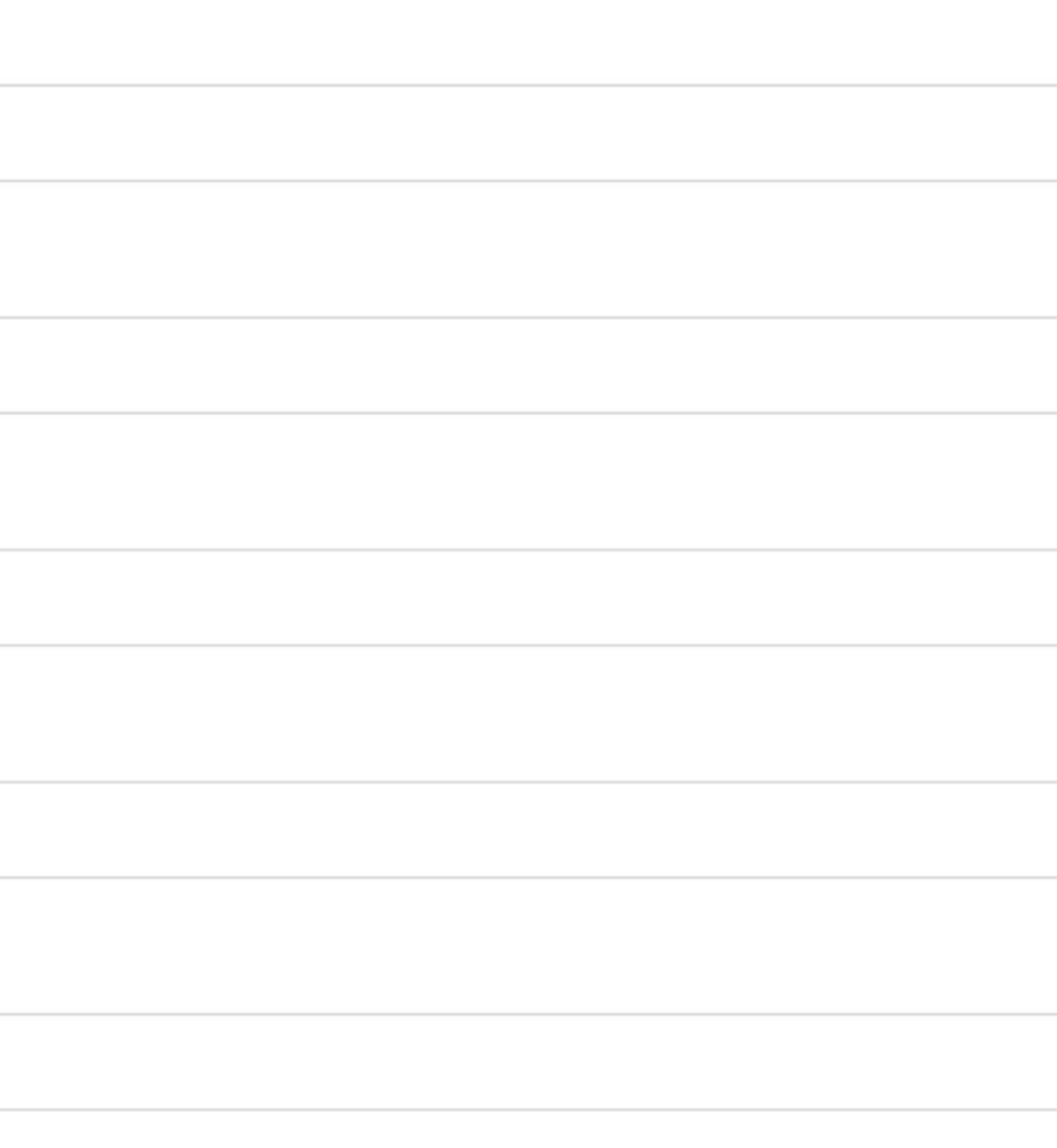
bootstrap@example.com

#### URL

https://getbootstrap.com

#### Telephone

1-(555)-555-5555





#### VISUAL What should look for?

- Navigation
- Visual content
- Orientation & boundaries
- Contrast & size
- Peripheral interaction

## Visual Motor or Physical Auditory Cognitive



## MOTOR OR PHYSICAL WORDER OR PHYS

- Someone like my cousin Emily, with a disability from birth
- The wounded vet that uses prosthetics
- Or even my niece with her broken arm or finger

#### **MOTOR OR PHYSICAL** What should I look for?

- Gesture alternatives & sensitivity touches
- Reach/orientation on mobile
- Non physical navigation

## Visual Motor or Physical Auditory Cognitive

## AUDITORY What does this mean?

- Someone who is completely non hearing
- My grandfather who wears a hearing aid

#### **AUDITORY** What should I look for?

- Embedded videos
- Alternative contact information

## Visual Motor or Physical Auditory Cognitive

#### COGNITIVE What does this mean?

- My cousin Matthew who has down syndrome
- The little boy I babysit with autism
- Your friend who may have dyslexia
- Me with extreme motion sickness

#### COGNITIVE What should I look for?

- Visual density
- Memory gestures
- Distracting content
- Fonts
- Excessive movements

# Accessibility Audits

# What is an accessibility audit?

# An accessibility audit is an evaluation of how well your product supports the needs of web users with disabilities.

## HOW do I know what to follow?

# **508C WCAG 2.1**

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# Creating an accessible site is more than just following a checklist.

# When is an audit necessary?

## Client Facing nterna Persona

## Client Facing Internal Personal

## Client Facing Interna Personal

## Client Facing Internal Persona

# Why is an audit important?

# People are afraid of getting sued

# Why is an audit important?

- Boost SEO
- Usability
- Awareness = Money
- Be a decent human being

# **Lesting** & Tools



## Automated Manual

### Automated Manual

#### **TESTING & TOOLS** Automated Tools

- Wave
- Lighthouse

# TESTING & TOOLS - AUTOMATED TOOLS Wave

- Well known
- Website or Chrome extension
- Quirk: color contrast

#### **TESTING & TOOLS - AUTOMATED TOOLS** Lighthouse

- Integrated within Chrome Canary
- Does SEO, performance, accessibility, and best practices
- Creates a "report" you can send to clients
- Gives your site a score

## Automated Manual

#### **TESTING & TOOLS** Manual Testing

- Keyboard
- Screen Reader



#### TESTING & TOOLS - MANUAL TESTING Keyboard Testing

- Pass/fail
- Actionable items
- Focus styling
- Logical order

#### TESTING & TOOLS - MANUAL TESTING Screen Readers

- Jaws
- NVDA
- Voice Over (VO)

#### TESTING & TOOLS - MANUAL TESTING Screen Reader Testing

- Entire experience
- Actionable items
- Navigation
- Content



### Project Managers



#### **TIPS & TRICKS - PROJECT MANAGERS** Project Managers

- Get access to Google Analytics
- Include who needs to make edits



#### **Content Editors**



#### **TIPS & TRICKS - CONTENT EDITORS Content Editors**

- **DO NOT WRITE WORDS IN ALL CAPS**
- Check hierarchy with the "no styles" option in Wave
- Outline extension (Chrome)
- Use a screen reader
- Read site to someone over the phone

#### Developers

#### TIPS & TRICKS - DEVELOPERS Developers

- Color contrast checker (Chrome)
- Is the site responsive?
- Color contrast errors
- Text over images
- Zoom zoom zoom

#### TIPS & TRICKS Keyboard

- Test the "skip to main content" link
- Default focus styling
- Interact with actionable items

#### **TIPS & TRICKS** Screen reader

- Set screen reader preferences
- V.O. tutorials
- Turn your screen off
- Turn your mouse over
- Test a site you are not familiar with
- "Play all"



#### **TIPS & TRICKS** Screen reader

- Dates
- 1-3 letter words are sometimes read letter by letter
- Vague Link text
- Get Comfortable

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#### Resources

- VO Cheatsheet: <u>bit.ly/vo-cheatsheet</u>
- *4 part series blog:* <u>bit.ly/accessibility-blog-series</u>
- Wave: wave.webaim.org
- Demos: pauljadam.com/demos.html
- Content Checker: <u>hemingwayapp.com</u>
- Blind Institute of Tech: <u>blindinstituteoftechnology.org</u>
- Lighthouse Viewer: <a href="http://www.bit.ly/lighthouse-report-viewer">bit.ly/lighthouse-report-viewer</a>
- 508 Guidelines: <u>section508.gov</u>
- WCAG 2.1 guidelines: <u>bit.ly/wcag-2-1</u>

#### **Chrome Extensions**

- Wave
- Lighthouse
- Outliner
- Spectrum