
508 Compliance Tips in Joomla and Gantry 5

A basic guide by Dwayne Grimes

Accessibility, It's The Law

Accessibility TV and YouTube pre-roll commercials are starting to show up. There was the Federal Law in the 1990's to make all your public digital content accessible for all. It is just a nice thing to do.





1. The Basics

Doing this on a budget can be done. There are free plug-ins to get you started, and are often customizable.

- **Blind Folks - High Contrast & Logical Tabbing**
Make the text really stand out. Visually impaired as well as blind.
Don't make text too small.
- **Epilepsy - No Flashy Blinking Things**
Flashy graphics have been seen to cause some users seizures..
- **Deaf - Incorporate Screen Readers**
Provide a simple unifying message for what is to come

2. Employ Help

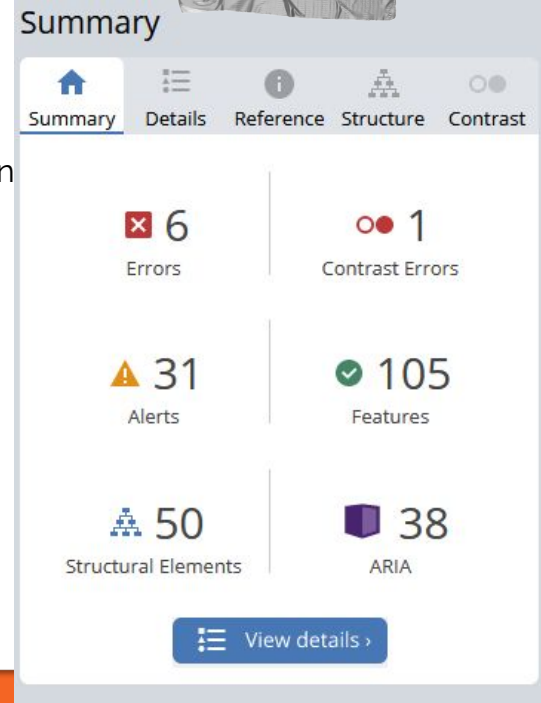
There are sites to do the evaluation for you. Just looking on the net you can find a bunch. Here are two I tried

→ <https://www.boia.org>

This is one I used. I submitted my url and asked for an evaluation They got back to me with are report like this.

→ <https://wave.webaim.org/>

This is the one I went with, because it was simple and pointed out exactly needed to be fix on each page.



2.1 BOIA Preceivable Report

This report required following links and interpreting the instructions; therefore, it ignored it for a few days. Here are the basic discoveries:

→ **Non-text Content** - *alt tags*

<https://www.boia.org/WCAG2/CP/1.1.1>

→ **Info And Relationships** - *H tags over bold*

<https://www.boia.org/WCAG2/CP/1.3.1>

→ **Identify Input Purpose** - *autocomplete ready*

<https://www.boia.org/WCAG2/CP/1.3.5>

→ **Use Of Color** - *use "require" html element over color*

<https://www.boia.org/WCAG2/CP/1.4.1>

BUREAU OF INTERNET ACCESSIBILITY

Demetri Letter? | Inclusion | Success | Why Us | Blog | Contact

WCAG 2.1 A/AA AUTOMATED SITE REVIEW

WCAG 2.1 A/AA Success Criteria are organized around four principles: Perceivable, Operable, Understandable and Robust. These principles by the foundation necessary for anyone to access and use web content. Thorough testing of a website requires a combination of both automated and human testing.

A sampling of www.scdit.com's webpages was scanned using the Bureau of Internet Accessibility's automated scanning tool and the summary results are available below. Although automated testing can only identify 20-30% of the actual issues, it provides a great initial indication of overall accessibility.

WEBSITE ANALYZED: WWW.SCDIT.COM

WEBSITE REVIEW:	Result
WCAG 2.1 A/AA Automated Evaluation	10/20 checkpoints failed
WCAG 2.1 A/AA Expert Manual Evaluation	Not performed
Public Website Accessibility Statement	Unreviewed
Company Internal Digital Accessibility Procedures	Unreviewed
Team Accessibility Training	Unreviewed

DETAILED REPORTS AVAILABLE:

WCAG 2.1 A/AA Detailed Report with Remediation:
Identify your website's WCAG 2.1 A/AA issues and find out how to fix them with the Automated WCAG 2.1 A/AA Audit and Developer's Guide Remediation Report.
[Learn More](#)

WCAG 2.1 A/AA Detailed Report:
Identify your website's WCAG 2.1 A/AA issues with a detailed Automated WCAG 2.1 A/AA Audit Report.
[Learn More](#)

Perceivable	Operable	Understandable	Robust
Perceivable Guideline Information and user interface components must be perceivable to users in ways they can perceive.	Operable Guideline User interface components and navigation must be operable.	Understandable Guideline Information and the operation of user interface must be understandable.	Robust Guideline Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.
Failed Checkpoints: 1.1.1 Non-text Content 1.3.1 Info and Relationships 1.3.5 Identify Input Purpose 1.4.1 Use of Color	Failed Checkpoints: 2.1.1 Keyboard 2.3.1 Timing Adjustable 2.4.1 Digits Notation 2.4.2 Page Titled 2.4.4 Link Purpose (In Context) 2.4.7 Focus Visible	Failed Checkpoints: 3.2.1 On Focus 3.2.2 On Input 3.3.2 Labels or Instructions	Failed Checkpoints: 4.1.1 Parsing 4.1.2 Name, Role, Value

2.2 BOIA Operable Report

This report required following links and interpreting the instructions; therefore, it ignored it for a few days. Here are the basic discoveries:

→ **Keyboard** - *logically use tab button to navigate page*

<https://www.boia.org/WCAG2/CP/2.1.1>

→ **Timing Adjustable** - *slideshows need to be controllable by user.*

<https://www.boia.org/WCAG2/CP/2.2.1>

→ **Bypass Blocks** - *skip past reused content blocks*

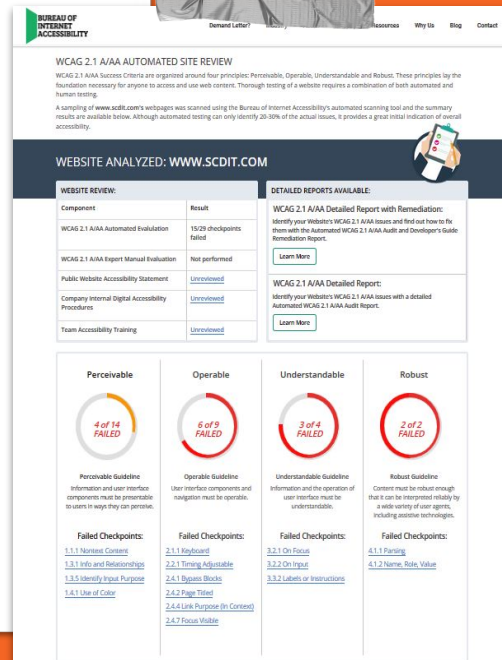
<https://www.boia.org/WCAG2/CP/2.4.1>

→ **Page Titles** - *page title should reflect the content*

<https://www.boia.org/WCAG2/CP/2.4.2>

→ **Link Purpose** - *same as page title should reflect the content*

<https://www.boia.org/WCAG2/CP/2.4.4>



The screenshot shows the 'BUREAU OF INTERNET ACCESSIBILITY' report for 'WEBSITE ANALYZED: WWW.SCDIT.COM'. The report is titled 'WCAG 2.1 A/AA AUTOMATED SITE REVIEW'. It includes a table for 'WEBSITE REVIEW' and a section for 'DETAILED REPORTS AVAILABLE'.

Component	Result
WCAG 2.1 A/AA Automated Evaluation	15/29 checkpoints failed
WCAG 2.1 A/AA Report Manual Evaluation	Not performed
Public Website Accessibility Statement	Unreviewed
Company Internal Digital Accessibility Procedures	Unreviewed
Team Accessibility Training	Unreviewed

DETAILED REPORTS AVAILABLE

WCAG 2.1 A/AA Detailed Report with Remediation:
Identify your website's WCAG 2.1 A/AA issues and find out how to fix them with the Automated WCAG 2.1 A/AA Audit and Developer's Guide Remediation Report.
[Learn More](#)

WCAG 2.1 A/AA Detailed Report:
Identify your website's WCAG 2.1 A/AA issues with a detailed Automated WCAG 2.1 A/AA Audit Report.
[Learn More](#)

Perceivable
4 of 14 FAILED

Operable
6 of 9 FAILED

Understandable
3 of 4 FAILED

Robust
2 of 2 FAILED

Perceivable Guideline:
Information and user interface components must be perceivable to users in ways they can perceive.

Operable Guideline:
User interface components and navigation must be operable.

Understandable Guideline:
Information and the operation of user interface must be understandable.

Robust Guideline:
Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

Failed Checkpoints:

- 1.1.1 Nonaxe Content
- 1.3.1 Info and Relationships
- 1.3.5 Identifying Input Purpose
- 1.6.1 Use of Color
- 2.1.1 Keyboard
- 2.2.1 Timing Adjustable
- 2.4.1 Bypass Blocks
- 2.4.2 Page Title
- 2.4.4 Link Purpose (In Context)
- 2.4.7 Focus Visible
- 3.1.1 On Focus
- 3.2.2 On Input
- 3.3.2 Labels or Instructions
- 4.1.1 Parsing
- 4.1.2 Name, Role, Value

2.3 WAVE is Super Easy

WAVE is **more fun to**; therefore, it was fun to use.:

→ **Handy Tags** - *colored flags highlight trouble areas*

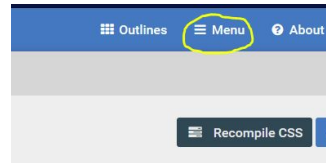
This site was so easy to use. They give you hints on what exactly needs To be fixed.



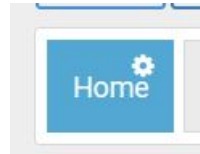
2.3 Gantry Built-in Solutions

Gantry has at least one thing to make it easier.; After fighting Aria-Labels I discovered Gantry has an easy way to do it.

1. **Go to templates and then menu**



2. **Click on the gear.**



3. **Create a list or link tag**

List Tag Attributes



Link Tag Attributes

key (e.g. style, nai) Value

List Tag Attributes

aria-label

SCDIT Home



3. Knock Out Enough

Not everything will be fixable in a reasonable amount of time. It is your own site, a showcase site, or client just wants it, some things may not be easy.

→ Joomla Issues

I found in order to override something in **core Joomla** I had to **alter** and then **update manually** a **core Gantry file**. I got a **Ganty update** the file was **replaced** in a week after I rewrote it.

→ Gantry Can Help

I found the **override wasn't necessary** and I could use **core Gantry attributes** to achieve adding "**aria-label**"s to my dropdown menu items. [LINK](#)

→ Logical Tabbing Dropdown Menus.

Struggled with this and kind of **gave up** for the moment. I did get the tabbing to cycle through the drop down but didn't get the dropdown menu to show.

CSS

```
.g-main-nav .g-dropdown,  
.g-main-nav .g-standard  
.g-dropdown .g-dropdown {  
position: absolute; top: auto;  
left: auto; opacity: 1; visibility:  
visible; overflow: hidden; }  
  
.g-dropdown ul li:hover > ul,  
.g-dropdown ul:focus-within >  
ul, ul li ul:hover {  
  
visibility: visible; opacity: 1;  
display: block;  
  
}
```

4. Add A Type Magnifier

I found a free on the [Extensions.joomla.org](https://extensions.joomla.org) website. It took no time at to download and install. Take take a bit to configure, and still doesn't look the way I want it to . I am not sure how I want it to look

→ Fast Font - Pixel Point Creative

<https://extensions.joomla.org/extension/fast-font/>

It was free and easy.

→ Customize The Plug-in

I believe I had to alter the my CSS to change the font color or size. I tried moving the order of the module position and fussed with the CSS to get it placed right and decided to leave it would I got to look nice enough. Not sure it stands out enough to make sense to me.

Fast Font

★★★★★
7 reviews

Default Font Size %	<input type="text" value="100"/>
Text Only?	<input type="text" value="No"/>
Button Size	<input type="text" value="Medium"/>
Button Color	<input type="text" value="#000000"/>
Use Gradient	<input type="text" value="Yes"/>
Margin	<input type="text" value="0px 0px 0px 0px"/>
Border	<input type="text" value="none"/>

Introduction

Accessibility, Typography

Fast Font is a javascript font sizer. What makes it different from others is its ability to be customized. There are three button sizes and UNLIMITED colors choices. You can also choose to add a gradient overlay and a border. There is also a text only mode.

[Favourite](#) [Report](#) [Share](#)

Reviews (7) [Other extensions \(45\)](#)

GET FAST FONT (V1.1)



Fast Font

Version:
1.1

Developer:
[Pixel Point Creative](#)

Last updated:
Jun 22 2015

Date added:
Nov 18 2014

License:

5. Add A Screenreader

I found a free on the [Extensions.joomla.org](https://extensions.joomla.org) website as well. It took no time at to download and install. Take take a bit to configure, and still doesn't look the way I want it to . I am not sure how I want it to look

→ **GSpeech - Creative Solutions**
<https://extensions.joomla.org/extension/gspeech/>
It was free and easy.

→ **Customize The Plug-in**
It is kind of obnoxious, but the voice is clear to understand. It works well, and allows a user to have a screen reader. I am not sure how the user knows there is a screen reader available. You can have autoplay speech when the user enters the page and you can define a block to speak. There are options.
[gspeech]Text to speech[/gspeech]



The screenshot shows the Joomla! Extensions website for the GSpeech extension. At the top, it displays the extension name "GSPEECH (v2.6.0)" with a 5-star rating and "18 reviews". Below this is a promotional banner for "GSPEECH" by "CREATIVESOLUTIONS" with a list of features: "Allows to listen any text from the site!", "Listen to selected text!", "Flexible Auto-Play", "Feature to set greeting audio for your users.", "Speaking menus!", "58 languages supported by Google!", and "and much more...". The banner also features an image of a blue speaker. Below the banner, there is an "Introduction" section with links for "Audio Players & Gallery", "Communication", "Contacts & Feedback", "Accessibility", and "Multimedia Players". It also includes a note: "Allows to listen any text from the site." and social sharing buttons for "Favourite", "Report", and "Share". On the right side, there is a sidebar with the extension name "GSpeech", version "2.6.0", developer "Creative Solutions", last updated "Feb 07 2020", date added "Nov 19 2014", and license "GPLv2 or later". At the bottom, there is a small text block: "How it would be wonderful, if your visitors could listen any selected text from your site? We made that possible. We use Google power to provide you the".

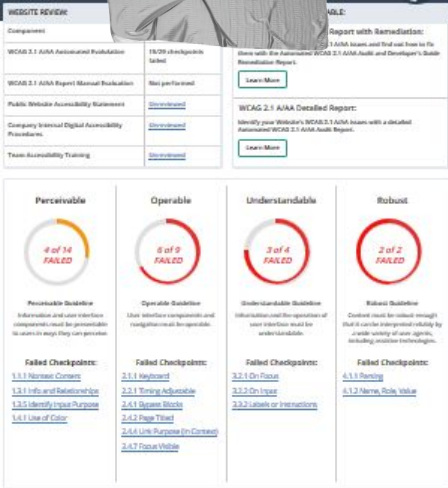
6. Go A Little Further Translate

I found a free on the [Extensions.joomla.org](https://extensions.joomla.org) website thank goodness. It took no time at to download and install. Ran into a setting issue they helped to resolve for free during COVID-19.

→ **GTranslate - Creative Solutions**
<https://extensions.joomla.org/extension/gtranslate/>
It was free and easy.

→ **Customize The Plug-in**
It was easy for the most part. I had to override some styles with my CSS, and photoshop an icon.

→ **Tech Support**
I used their chat on their website. The used the console window in the browser and diagnosed a Javascript error. I fixed it Gantry.



The screenshot displays the 'WIGGITE REVIEW' interface, which provides a detailed accessibility audit. The top section, titled 'WIGGITE REVIEW', includes a 'Completion' table with the following items:

Item	Status	Action
WCAG 2.1 ARIA Automated Evaluation	100% (checkpoints listed)	Learn More
WCAG 2.1 ARIA Report Manual Evaluation	Not performed	Learn More
Public Website Accessibility Statement	Not reviewed	Learn More
Company Internal Digital Accessibility Procedures	Not reviewed	Learn More
Team Accessibility Training	Not reviewed	Learn More

Below the table, there are sections for 'Report with Remediation' and 'WCAG 2.1 ARIA Detailed Report'. The main content area features four columns representing different accessibility principles, each with a progress indicator and a list of failed checkpoints:

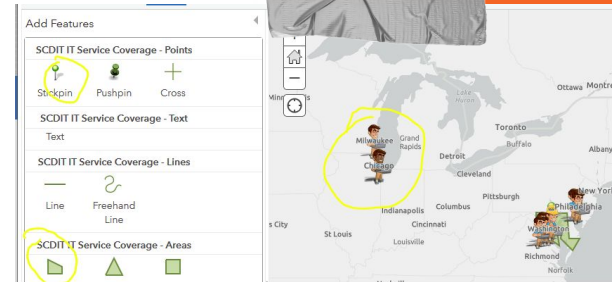
- Perceivable**: 4 of 12 FAILED. Failed Checkpoints: 1.1.1 Keyboard, 1.3.1 Info and Relationships, 1.3.5 Identify Input Purpose, 1.4.1 Use of Color.
- Operable**: 5 of 9 FAILED. Failed Checkpoints: 2.1.1 Keyboard, 2.2.1 Timing Adjustable, 2.4.1 System Status, 2.4.2 Page Titled, 2.4.4 Link Purpose (in Context), 2.4.7 Focus Visible.
- Understandable**: 3 of 4 FAILED. Failed Checkpoints: 3.2.1 On Focus, 3.2.2 On Input, 3.2.3 Labels or Instructions.
- Robust**: 2 of 2 FAILED. Failed Checkpoints: 4.1.3 Reading, 4.1.2 Name, Role, Value.

6. Even Further ERSI

Create your own mapping element for your website. Saw it requested, figured I could quickly learn enough, but got schooled by a teenaged girl on YouTube. I thought it may look cool to have a service area map with actual locations we have serviced.

- **ARCGIS.com**
Tutorials: <https://developers.arcgis.com/labs/>
It was free and easy.
- **How I Got Schooled**

With a one simple search on YouTube I came across this girl doing such a good presentation of how to customize and build your own map. You can embed it into Joomla easily and even create an app with just a few steps..



7. Ganty Particles Released

JoomLead has cranked out some new particles that are free and work great with Ganty

→ **Joomlead**

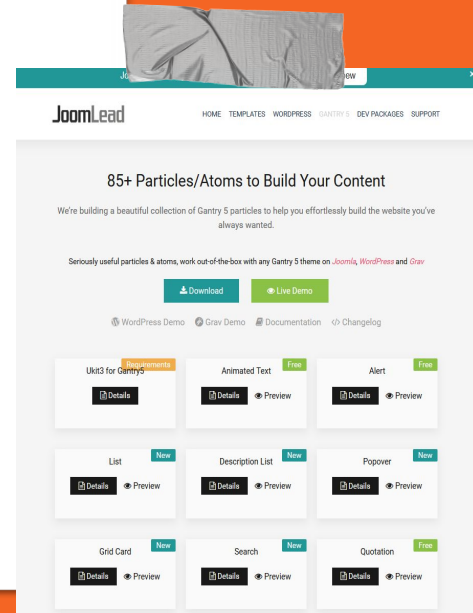
<https://joomlead.com/gantry-5-particles/>

I used video background and I loved it.

→ **Video Must Be On YouTube**

I had to upload a video to our GMail / YouTube account. Didn't like doing that and had to make it public in order for it to work but its worth it. I could set how many times it played through and then went back to the original background.

<https://www.scdit.com/>



8. Ask For Reviews

Google and Facebook are two places a lot of people go to on the web, so having reviews on these platforms can be good for your business.

➔ **SCDIT**

<https://www.scdit.com/review-us.html>

I found the method for getting the user right to the point of leaving a review in both those places..



The screenshot shows the SCDIT website's 'Review Us' page. At the top, there is a navigation bar with 'Home', 'About', 'Services', 'Employment', and 'Contact Us'. The main content area is titled 'Review Us' and includes the following text: 'SCDIT strives to perform quality work and satisfy our customers. We hope you enjoyed your experience with SCDIT and would be willing to leave us a review.' Below this, it says 'It is super easy.' and lists two steps: '1. Simply click on one or both logos.' and '2. Write a review.' The logos for Google and Facebook are displayed. To the right, there is a 'Points Of Contact' section listing Scott Dargis (Sales & Marketing POC), Greg Tyler (Business Development POC), and Bryan Barham (Infrastructure POC). At the bottom, there is a footer with 'ABOUT US', 'HOURS', 'LOCATION', and 'PHONE' sections. The 'ABOUT US' section mentions SCDIT is a Maryland State Certified MBE / DBE / WBE. The 'HOURS' section lists office hours from Monday to Friday, 8:30am to 5:00pm, and a helpline at 24/7. The 'LOCATION' section provides the address: 7161 Columbia Gateway Drive, Suite C, Columbia, MD, 21046. The 'PHONE' section lists the phone number (410) 290-1991, a toll-free number (855) 710-3723, and a fax number (410) 290-1908.

Update what you can

You don't have to do everything

Take your time and fix what doesn't end up wasting a lot of time

Look for help

Google what you may get stuck on. I found when I asked for help I found the answers.

Every little bit is a learning experience.

More RFP's are requesting all the things I am showed in this presentation.