WCAG 2.1 Level AA Success Criteria

COMPLIANCE AUDIT

For tech.argzero.org | Verdict: Compliant

accessiBe is the web accessibility **market leader**, powering the accessibility of **tens-of-thousands** of websites, from **small businesses** to industry-leading **enterprises**.

This audit evaluates the adherence level of **tech.argzero.org** as of June 11, 2020, to the "Web Content Accessibility Guidelines" (WCAG) 2.1 level AA success criteria.

Below you'll find the results for dozens of tests that focus mainly on 3 categories: **screen-reader** adjustments(for blind users), **keyboard navigation** adjustments (for the motor impaired) and **UI, design, and readability** adjustments (for the visually impaired).

WCAG 2.1 AA Level Web Accessibility Audit

Website: tech.argzero.org | **Verdict:** Compliant | **Date:** June 11, 2020

#	Requirement	Relevant	Successes	Failures	Score
1	Elements that behave as buttons but are built using other tags such as span, div, a or others, should include a "role" attribute that equals to "button".	Yes	6	0	100%

Code snapshots of some of the successful elements

- Skip navigation

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="projects_button" class="active_section" onclick="return displaySection($("#projects"));" ><a tabindex="2" role="menuitem" onkeydown="if(event.which === 32 || ev...

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="people_button" onclick="return displaySection($("#people"));" ><a tabindex="3" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || eve...

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="music_button" onclick="return displaySection($("#music"));" ><a tabindex="4" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || event...

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="pub_button" onclick="return displaySection($("#pubs"));" > <a tabindex="5" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.w...

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="github_button" onclick="window.location.href="https://github.com/ArgzeroTech";" > <a tabindex="6" role="menuitem" onkeydown="if (event.which === 32 || event.ke...

#	Requirement	Relevant	Successes	Failures	Score
2	Link that open in a new tab or a new window should either have an "aria-label" attribute or a screen-reader only element explaining to screen-readers that this opens in a new tab.	No	0	0	-

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3	Links should include text that is setting expectations to what page they are leading to. If empty links are used as layout wrapping elements, a screen-reader only text or an "aria-label" attribute should be used for that description.	Yes	5	0	100%

Code snapshots of some of the successful elements

- <a id="crossroads" tabindex="9" aria-label="Tab down to reach the currently active page. To change pages, use the links in the navigation above. Quick Link to Footer." style="width:0px; height:0px; padding:0px; margin: 0px auto; visibility: hidden; d...

- <h1 role="heading" id="project_name" class="item_name">Sorry! No Projects Right Now!<img role="img" height="100%" width="100%" id="link_img" alt="Image indicator that prior text is a Link to the Project"...

- http://dx.doi.org/10.1145/3055116.3055118

- http://dx.doi.org/10.1111/ner.12950

- <a tab-index="499" style="width:0px; height:0px; padding:0px; margin: 0px auto; visibility: hidden; display: inline;" href="#desktop_nav" >Quick Link to Header

4	Buttons should include text explaining their functionality, and if icons are used as buttons, a screen-reader only text or an "aria-label" attribute should be used for that description.	Yes	6	0	100%

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5	Interactive elements that can be navigated using the keyboard should be surrounded by a visual outline whenever they are focused.	Yes	Pass	-	100%
6	Interactive elements such as links, buttons and form fields should all be navigable using the keyboard by either using an focusable element (a, button, input, etc.) or include the "tabindex" attribute that equals to "0".	Yes	8	0	100%

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- <img role="img" id="icon" tabindex="0" alt="Argzero Technologies Logo in bar format" class="text-icon" rel="t-icon" src="https://argzero.org/tech/images/AZTLogoBarTrans.png" style="display: block;">

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="projects_button" class="active_section" onclick="return displaySection($("#projects"));" ><a tabindex="2" role="menuitem" onkeydown="if(event.which === 32 || ev...

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- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="patreon_button" ><a tabindex="7" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === 'Enter'|| event....

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="contact_button" onkeydown="if(event.which === 32 || event.keyCode === 32 || if (event.which === 13 || event.keyCode === 13 || event.key === "Enter"){return dis...

7	Every page should include hidden links that by clicking on them (either using keyboard navigation or a screen-reader), user will "skip" certain blocks directly to main landmarks such as main content, menu or footer.	Yes	Pass	-	100%

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Code snapshots of some of the successful elements

- Skip navigation

8	Elements that are hidden using CSS manipulations (opacity, height, text-indent, off-canvas, etc.) should be wrapped inside an element with an "aria-hidden" attribute that equals to "false", or include it directly, and have it dynamically changed to "true" when they become visible.	Yes	Pass	-	100%
9	Active popups should include an "aria-modal" attribute that equal to "true", and a "role" attribute that equals to "dialog", so screen-readers users know how to navigate within it.	Yes	Pass	-	100%

Code snapshots of some of the successful elements

- <section id="top_bar" aria-modal="true" role="dialog" style="text-align: center; vertical-align: top;"><img role="img" id="icon" tabindex="0" alt="Argzero Technologies Logo in bar format" class="text-icon" rel="t-icon" src="https://argzero.org/tech/i...

10	Elements that are hidden using CSS manipulations (opacity, height, text-indent, off-canvas, etc.) should include a "tabindex" attribute that is below 0, and have it dynamically changed to 0 when they become visible.	Yes	Pass	-	100%
11	The validity status of every form element must be represented in the code at all times using the "aria-invalid" attributes and the "true/false" values, and change dynamically when the status changes.	No	0	0	-
12	Form fields should either include an "aria-label" attribute or a connected LABEL element describing the requirement of the field (email, phone, name, etc.).	No	0	0	-

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13	Required form fields should include an "aria-required" attribute that equals to "true" so blind users using screen-readers know their validation.	No	0	0	-
14	aria-describedby and aria-labelledby attributes should be connected by ID to an element that either has text description or an "aria-label" attribute.	No	0	0	-
15	All forms should have a submission button that is built as an input type "submit" or a "button" element, or include a "role" tag that equals to "button". Buttons can be hidden if the form can be submitted using the Enter key.	No	0	0	-
16	Form elements cannot have the same ID, or else their corresponding label will provide false information.	No	0	0	-
17	Search forms should include a "role" tag that equals to "search" (or be wrapped by one) to indicate a search landmark for screen-readers.	No	0	0	-
18	HTML title elements (H1-6) should have texts. If images or links are used, they should include an alternative or screen-reader only text.	Yes	6	0	100%
19	An H1 title provides information to blind-users using screen-readers of what the main topic of the page is and each page should have exactly one H1 title.	Yes	Pass	-	100%

Code snapshots of some of the successful elements

- <h1 role="heading" id="project_name" class="item_name">Sorry! No Projects Right Now!<img role="img" height="100%" width="100%" id="link_img" alt="Image indicator that prior text is a Link to the Project" src="https://argzero.org/tech/images/LINKflat....

20	Title levels should not be skipped and be built with consistent hierarchy. For example: you cannot have "h4" titles and "h2" titles without having "h3" titles.	Yes	Pass	-	100%

21	Elements that visually appear as titles but are coded with a non-heading HTML Tag should include a "role" attribute that equals to "heading" or have their tags fixed.	Yes	Pass	-	100%

Code snapshots of some of the successful elements

- <p class="item_desc" role="heading"> <iframe tab-index="402" role="form" aria-label="Google Forms contact form iframe" src="https://docs.google.com/forms/d/e/1FAIpQLScUbE6ayEPFKoo6joKyJtPKaX2Mw9B9lOs wCtGKeM_0Y5rclA/viewform?embedded=true" frame...

22	Figure elements that are used to display images should have a "role" attribute that equals to "none" and let the image provide the description using an "alt" attribute.	No	0	0	-

23	Background images are not just for decoration purposes should have the same treatment as standard images and include a "role" attribute that equals to "img" and an alternative text description in an "aria-label" attribute.	No	0	0	-

24	Font icons, SVG or images that are being used as spacers, decorations or their purpose is already described by the content should include a "role" attribute that equals to "presentation" or "none".	Yes	Pass	-	100%

Code snapshots of some of the successful elements

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25	Images shoulg have an alternative text description that describes both the objects and the embedded text that the image contains, using the "alt" attribute.	Yes	Pass	-	100%

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- <img role="img" id="icon" tabindex="0" alt="Argzero Technologies Logo in bar format" class="text-icon" rel="t-icon" src="https://argzero.org/tech/images/AZTLogoBarTrans.png" style="display: block;">

26	Small or hidden tracker pixel images (often used for analytics or marketing purposes) should include a "role" attribute that equals to "none" or "presentation" so they are excluded from screen-readers.	No	0	0	-
27	Every "area" element of a "map" tag should be regarded as a standard image and receive an alternative text description using an "alt" attribute.	No	0	0	-
28	Letter spacing should not be set to below -1px in order to stay readable in the majority of font families. This should be verified also when using dynamic units such as REM or percents.	Yes	Pass	-	100%
29	Font sizes should be at least 11px in size in order to stat readable in the majority of font families. This should be verified also when using dynamic units such as REM or percents.	Yes	Pass	-	100%
30	Elements that have texts should meet a minimum contrast ratio of 4.5:1 between their foreground (usually text color) and background color.	Yes	43	0	100%

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- Skip navigation

- <section role="heading" tabindex="1" id="icon_text"> Argzero Technologies </section>

- <p> Projects </p>

- <p> People </p>

- <p> Media </p>

- <p> Pubs </p>

- <p> GitHub </p>

- <p> Patreon </p>

- <p role="menuitem"> Contact </p>

- <a id="crossroads" tabindex="9" aria-label="Tab down to reach the currently active page. To change pages, use the links in the navigation above. Quick Link to Footer." style="width:0px; height:0px; padding:0px; margin: 0px auto; visibility: hidden; d...

31	Tables that are being used as layout structures should include a "role" attribute that equals to "presentation" to indicate to screen-readers that it is not really a table.	No	0	0	-
32	Tables that are missing a THEAD row with TH elements, should include a "role" attribute that equals to "rowheader" on the TD elements of the TR that represents the visual table headings.	No	0	0	-
33	If nested tables are used (a table element within a table cell), set the nested tables "role" attribute to "presentation".	No	0	0	-
34	Menu items that have a dropdown menu include an "aria-expanded" attribute that equals to "false" that changes to "true" and back when opening or closing the dropdown.	No	0	0	-

| 35 | Menus should either be built using the HTML5 "nav" element or include a "role" attribute that equals to "menu" or "navigation" to indicate a navigation landmark for screen-readers. | Yes | Pass | - | 100% |

Code snapshots of some of the successful elements

- <li role="button" tabindex="0" style="font-family: 'Ubuntu-B', sans-serif;" id="projects_button" class="active_section" onclick="return displaySection($("#projects"));" ><a tabindex="2" role="menuitem" onkeydown="if(event.which === 32 ...

| 36 | Menu items that have a dropdown menu include an "aria-haspopup" attribute that equals to "true". | No | 0 | 0 | - |

| 37 | Menu items should have a "role" attribute that equals to "menuitem", this is especially important for menu items with dropdowns. | Yes | 7 | 0 | 100% |

Code snapshots of some of the successful elements

- <a tabindex="2" role="menuitem" onkeydown="if(event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === "Enter" || event.key === "Space"){return displaySection($("#projects&quot...

- <a tabindex="3" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === "Enter"|| event.key === "Space") {return displaySection($("#people"...

- <a tabindex="4" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === "Enter"|| event.key === "Space"){return displaySection($("#music"))...

- <a tabindex="5" role="menuitem" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === "Enter"|| event.key === "Space"){return displaySection($("#pubs"));...

- <p...

- <a tabindex="7" onkeydown="if (event.which === 32 || event.keyCode === 32 || event.which === 13 || event.keyCode === 13 || event.key === 'Enter'|| event.key === 'Space'){window.location.href='https://www.patreon.com/argzerotech';}" onclick="window.lo...

- <p role="menuitem"> Contact </p>

| 38 | Landmarks such as main content and footer should be built using their corresponding HTML5 element or include a description using an "aria-label" attribute and a "role" tag that equals to "contentinfo" or "main". Landmarks such as search and navigation are tested in other sections. | Yes | Pass | - | 100% |

Code snapshots of some of the successful elements

- <article id="projects" aria-label="projects" role="main" style="display: none;"><section id="thumbnail_bar" aria-label="project buttons" tabindex="10" role="navigation"><ul id="project_list">
</section><a id="project_link" class="item_link" href=...

| 39 | The meta viewport tag should allow visually impaired users to pinch-zoom at least double the standard scaling using the user-scalable="yes" and maximum-scale={2 or higher} content strings. | Yes | Pass | - | 100% |

Code snapshots of some of the successful elements

- <meta name="viewport" content="width=device-width*1.5, initial-scale=0.4, user-scalabel=yes, minimum-scale=0.4, maximum-scale=2">

| 40 | The title tag of the HEAD section (also the title that appears in the browser tab and Search Engine result pages) should exist and describe the name of the current webpage for screen-reader users. | Yes | Pass | - | 100% |

Code snapshots of some of the successful elements

- <title>Argzero Technologies Company Page: Research and Innovation Services</title>

41	The HTML tag should include a "lang" attribute that represents the main language of the webpage so screen-readers can calibrate on it for blind users.	Yes	Pass	-	100%

Code snapshots of some of the successful elements

- <html lang="en"><head><meta name="acsbClient" content="false"><meta content="https://tech.argzero.org" name="acsbAceBase"><meta content="https://acsbap.com/apps/ace/" name="acsbAceEndpoint"><base href="https://tech.argzero.org"><meta charset="utf-8">...

42	Carousels should include an "aria-label" attribute that equals to "carousel"/"slider" or something else that indicates the functionality, as be tagged as a landmark for screen-readers using a "role" tag that equals to "contentinfo".	No	0	0	-
43	Control elements such as next and previous icons should include an "aria-label" attribute or a screen-reader only text that explains the functionality to screen-readers.	No	0	0	-
44	A common accessibility mistake as if treat carousels as live regions using the "aria-live" attribute and the "polite" or the "assertive" values. Using this practice will cause screen-readers to cut and skip announcements.	No	0	0	-
45	Carousel pagination items (usually used as small dots at the bottom of the carousel) should indicate their functionality and slide number they control using an "aria-label" and a screen-reader only text.	No	0	0	-

46	Ratings/scores that are represented visually using stars, meters or other indicators should either have an "aria-label" attribute or a screen-reader only texts conveying the score/rate.	No	0	0	-
47	Breadcrumbs main element should include a "role" attribute that equals to "navigation" and an "aria-label" attribute that describes the functionality."	No	0	0	-
48	Visually deleted texts (often used to show a previous price of a sale) should include an "aria-label" attribute or a screen-reader only text that explains this is deleted text.	No	0	0	-
49	Making use of an accessibility interface helps to ensure that visually impaired users can adjust some of the UI and the design (font-size, colors, spacing, etc.) to their needs. It is not a compliance requirement, but can help to improve compliance.	No	0	0	-
50	Iframe elements should include a "title" or an "aria-label" attribute explaining the purpose, the functionality or the destination of the iframe, or be tagged hidden for screen-readers if irrelevant.	Yes	3	0	100%

Code snapshots of some of the successful elements

- <iframe tab-index="202" aria-label="Soundcloud Music Player embedded iframe" id="soundcloud" width="100%" height="720" scrolling="no" frameborder="no" src="https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/users/9929731&auto_play=...

- <iframe tab-index="402" role="form" aria-label="Google Forms contact form iframe" src="https://docs.google.com/forms/d/e/1FAIpQLScUbE6ayEPFKoo6joKyJtPKaX2Mw9B9lOswCtGKeM_0Y5rclA/viewform?embedded=true" frameborder="0" marginheight="0" marginwidth="0"...

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- <iframe scrolling="no" frameborder="0" allowtransparency="true" src="https://platform.twitter.com/widgets/widget_iframe.86df6234483a1fa251e365dd8643c136.html?origin=https%3A%2F%2Facsbap.com" title="Twitter settings iframe" style="display: none;"></if...