

CodeGrade Accessibility Conformance Report

WCAG Edition

(Based on VPAT[®] Version 2.4)

Name of Product/Version: CodeGrade

Report Date: 2020-06-08

Product Description: CodeGrade is a grading and feedback platform for computer science education. With CodeGrade you can deliver engaging feedback on code.

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Notes: -

Evaluation Methods Used: Testing is based on general product knowledge and manual tests in the application.

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

| Standard/Guideline | Included In Report |
|--|--------------------|
| Web Content Accessibility Guidelines 2.0 | Level A (Yes / No) |

| Standard/Guideline | Included In Report |
|--|--|
| | Level AA (Yes / No) Level AAA (Yes / No) |
| Web Content Accessibility Guidelines 2.1 | Level A (Yes / No) Level AA (Yes / No) Level AAA (Yes / No) |

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports:** Some functionality of the product does not meet the criterion.
- **Does Not Support:** The majority of product functionality does not meet the criterion.
- **Not Applicable:** The criterion is not relevant to the product.
- **Not Evaluated:** The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.0 / 2.1 Report

Note: When reporting on conformance with the WCAG 2.x Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

Table 1: Success Criteria, Level A

Notes:

| Criteria | Conformance Level | Remarks and Explanations |
|--|--------------------|---|
| 1.1.1 Non-text Content (Level A) | Partially Supports | <ul style="list-style-type: none"> • Controls, Input: Does not support • Time-Based Media: Not applicable • Test: Not applicable: CodeGrade does not contain non-text content as a test or exercise. • Sensory: Supports: text alternatives at least provide descriptive identification of the non-text content that is primarily intended to provide a specific sensory experience. • CAPTCHA: Not applicable: CodeGrade does not use CAPTCHA's. • Decoration, Formatting, Invisible: Supports: Non text used for decoration only can be ignored by assistive technology |
| 1.2.1 Audio-only and Video-only (Prerecorded) (Level A) | Not applicable | No content or interactions within CodeGrade require or use audio. |
| 1.2.2 Captions (Prerecorded) (Level A) | Not applicable | No content or interactions within CodeGrade require or use video or audio. |
| 1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A) | Not applicable | No content or interactions within CodeGrade require or use video or audio. |
| 1.3.1 Info and Relationships (Level A) | Partially Supports | We try to structure our HTML in such a way that communicates order and relation. However, in some cases, for example in the use of descriptive popovers, it may happen that explanation and content are not linked together besides their visual connection. |
| 1.3.2 Meaningful Sequence (Level A) | Supports | A correct reading sequence can be determined as all information is in a logical order and focus order. |
| 1.3.3 Sensory Characteristics (Level A) | Supports | Instructions provided for understanding and operating content do not rely solely on sensory characteristics of |

| Criteria | Conformance Level | Remarks and Explanations |
|--|--------------------|--|
| | | components such as shape, size, visual location, orientation, or sound. |
| 1.4.1 Use of Color (Level A) | Supports | Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. |
| 1.4.2 Audio Control (Level A) | Not applicable | CodeGrade never automatically plays audio. |
| 2.1.1 Keyboard (Level A) | Partially supports | Almost all functionality of the content is operable through a keyboard interface. However, not all links in CodeGrade are standard HTML links. |
| 2.1.2 No Keyboard Trap (Level A) | Supports | CodeGrade does not contain any keyboard traps. |
| 2.1.4 Character Key Shortcuts (Level A 2.1 only) | Supports | Shortcuts in CodeGrade are only active on focus. |
| 2.2.1 Timing Adjustable (Level A) | Supports | All time limits in CodeGrade are either essential or adjustable by users with certain permissions. |
| 2.2.2 Pause, Stop, Hide (Level A) | Does not support | Various parts of CodeGrade automatically update, this updating cannot be stopped or paused. |
| 2.3.1 Three Flashes or Below Threshold (Level A) | Supports | CodeGrade does not contain flashes. |
| 2.4.1 Bypass Blocks (Level A) | Does not support | The headers of pages in CodeGrade cannot be hidden. |
| 2.4.2 Page Titled (Level A) | Partially supports | Most pages in CodeGrade are titled correctly, including the name “CodeGrade”, the page name and the content on the page. However, some are not titled correctly and only contain the name “CodeGrade”. |
| 2.4.3 Focus Order (Level A) | Partially supports | Almost all pages in CodeGrade have a focus order based on the logical order of the page. |
| 2.4.4 Link Purpose (In Context) (Level A) | Supports | The purpose of each link in CodeGrade can be determined using the text alone or with the determined link context. |
| 2.5.1 Pointer Gestures (Level A 2.1 only) | Supports | CodeGrade uses no multipoint or path-based gestures for operation. |

| Criteria | Conformance Level | Remarks and Explanations |
|---|--------------------|---|
| 2.5.2 Pointer Cancellation (Level A 2.1 only) | Supports | |
| 2.5.3 Label in Name (Level A 2.1 only) | Supports | |
| 2.5.4 Motion Actuation (Level A 2.1 only) | Supports | No functionality in CodeGrade is operated through device motion or user motion. |
| 3.1.1 Language of Page (Level A) | Supports | Some user provided content may be in another language than indicated. |
| 3.2.1 On Focus (Level A) | Supports | |
| 3.2.2 On Input (Level A) | Supports | Context changes in CodeGrade only happen in response to direct user input. |
| 3.3.1 Error Identification (Level A) | Supports | Errors in CodeGrade are indicated in popovers that are visually close to the element that initiated the action that produced the error. |
| 3.3.2 Labels or Instructions (Level A) | Partially supports | Almost all inputs in CodeGrade have labels, however in some cases only a explaining placeholder is available. |
| 4.1.1 Parsing (Level A) | Supports | We have static tests in place to determine that in CodeGrade all opening tags have closing tags. Furthermore, we periodically test that all ids are unique in a page. |
| 4.1.2 Name, Role, Value (Level A) | Partially supports | There are cases where the role of an element cannot easily be determined programmatically. |

Table 2: Success Criteria, Level AA

Notes:

| Criteria | Conformance Level | Remarks and Explanations |
|--|-------------------|---|
| 1.2.4 Captions (Live) (Level AA) | Not applicable | CodeGrade does not contain any live audio content |

| Criteria | Conformance Level | Remarks and Explanations |
|--|--------------------|--|
| 1.2.5 Audio Description (Prerecorded) (Level AA) | Not applicable | CodeGrade does not contain any prerecorded video content. |
| 1.3.4 Orientation (Level AA 2.1 only) | Not applicable | All content in CodeGrade is responsive. |
| 1.3.5 Identify Input Purpose (Level AA 2.1 only) | Supports | CodeGrade doesn't use the "autocomplete" attribute. |
| 1.4.3 Contrast (Minimum) (Level AA) | Partially supports | CodeGrade does not solely use color to display information, and the default color scheme has high contrast. Some minor text details do not meet the contrast requirement |
| 1.4.4 Resize text (Level AA) | Supports | Text can be resized of up to 200 percent without loss of content or functionality |
| 1.4.5 Images of Text (Level AA) | Supports | CodeGrade does not use images where text can achieve the same visual effect. |
| 1.4.10 Reflow (Level AA 2.1 only) | Supports | At the desired zoom level vertical scrolling becomes possible. |
| 1.4.11 Non-text Contrast (Level AA 2.1 only) | Supports | In the light theme CodeGrade has a high contrast ratio for controls. |
| 1.4.12 Text Spacing (Level AA 2.1 only) | Supports | CodeGrade allows for users to override the spacing up to the specified limits without adverse effects. CodeGrade does not offer built-in tools to specify the spacing. |
| 1.4.13 Content on Hover or Focus (Level AA 2.1 only) | Supports | The tooltips and popovers used by CodeGrade satisfy the Dismissable, Hoverable and Persistent constraints. |
| 2.4.5 Multiple Ways (Level AA) | Supports | There are multiple ways to locate a web page in CodeGrade. |
| 2.4.6 Headings and Labels (Level AA) | Supports | When present, labels or headers in CodeGrade are descriptive. |
| 2.4.7 Focus Visible (Level AA) | Supports | Focus is visible in CodeGrade |
| 3.1.2 Language of Parts (Level AA) | Supports | All language in CodeGrade is in English, which is communicated using the HTML lang tag. |

| Criteria | Conformance Level | Remarks and Explanations |
|--|-------------------|--|
| 3.2.3 Consistent Navigation (Level AA) | Supports | The navigation in CodeGrade is consistent, and controls are also located consistently. |
| 3.2.4 Consistent Identification (Level AA) | Supports | Consistent functional components are used in CodeGrade. |
| 3.3.3 Error Suggestion (Level AA) | Supports | CodeGrade does give additional help for correcting input errors. |
| 3.3.4 Error Prevention (Legal, Financial, Data) (Level AA) | Not applicable | CodeGrade does not deal with legal or financial data. All operations that may have serious consequences do need to be confirmed by the user. |
| 4.1.3 Status Messages (Level AA 2.1 only) | Not applicable | CodeGrade doesn't use status messages as defined in WCAG. |

Table 3: Success Criteria, Level AAA

Notes:

| Criteria | Conformance Level | Remarks and Explanations |
|--|-------------------|--------------------------|
| 1.2.6 Sign Language (Prerecorded) (Level AAA) | Not evaluated | |
| 1.2.7 Extended Audio Description (Prerecorded) (Level AAA) | Not evaluated | |
| 1.2.8 Media Alternative (Prerecorded) (Level AAA) | Not evaluated | |
| 1.2.9 Audio-only (Live) (Level AAA) | Not evaluated | |
| 1.3.6 Identify Purpose (Level AAA 2.1 only) | Not evaluated | |
| 1.4.6 Contrast (Enhanced) (Level AAA) | Not evaluated | |
| 1.4.7 Low or No Background Audio (Level AAA) | Not evaluated | |
| 1.4.8 Visual Presentation (Level AAA) | Not evaluated | |
| 1.4.9 Images of Text (No Exception) (Level AAA) | Not evaluated | |
| 2.1.3 Keyboard (No Exception) (Level AAA) | Not evaluated | |
| 2.2.3 No Timing (Level AAA) | Not evaluated | |

| Criteria | Conformance Level | Remarks and Explanations |
|--|-------------------|--------------------------|
| 2.2.4 Interruptions (Level AAA) | Not evaluated | |
| 2.2.5 Re-authenticating (Level AAA) | Not evaluated | |
| 2.2.6 Timeouts (Level AAA 2.1 only) | Not evaluated | |
| 2.3.2 Three Flashes (Level AAA) | Not evaluated | |
| 2.3.3 Animation from Interactions (Level AAA 2.1 only) | Not evaluated | |
| 2.4.8 Location (Level AAA) | Not evaluated | |
| 2.4.9 Link Purpose (Link Only) (Level AAA) | Not evaluated | |
| 2.4.10 Section Headings (Level AAA) | Not evaluated | |
| 2.5.5 Target Size (Level AAA 2.1 only) | Not evaluated | |
| 2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only) | Not evaluated | |
| 3.1.3 Unusual Words (Level AAA) | Not evaluated | |
| 3.1.4 Abbreviations (Level AAA) | Not evaluated | |
| 3.1.5 Reading Level (Level AAA) | Not evaluated | |
| 3.1.6 Pronunciation (Level AAA) | Not evaluated | |
| 3.2.5 Change on Request (Level AAA) | Not evaluated | |
| 3.3.5 Help (Level AAA) | Not evaluated | |
| 3.3.6 Error Prevention (All) (Level AAA) | Not evaluated | |