

Evaluation Report of Chips and Code

About the Evaluation

Report Creator

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Evaluation Commissioner

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Evaluation date

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Executive Summary

The only possibly problematic functionality is the Hardware IDE that has the following two features:

1. Parts of the UI update automatically on text input within the code editor.
2. Parts of the UI update automatically on text input on input pins.

It is unclear whether these UI updates are clear enough.

Scope of the Evaluation

Website name

Chips and Code

Scope of the website

Home Page: <https://chipsandcode.com/> Boolean Logic Learning Material:

<https://chipsandcode.com/learn/hardware/boolean-logic/background> Hardware IDE with preloaded

Xor: <https://chipsandcode.com/experiment/hardware-ide/nnDG6JRQjL0aNvb7AJHnmZrv02pHIINF>

WCAG Version

2.1

Conformance target

AA

Accessibility support baseline

Latest stable versions of Chrome, Firefox, Edge, and Safari.

Additional evaluation requirements

Not provided

Detailed Audit Results

Summary

Reported on 50 of 50 WCAG 2.1 AA Success Criteria.

- 38 Passed
- 0 Failed
- 1 Cannot tell
- 11 Not present
- 0 Not checked

All Results

1 Perceivable

1.1 Text Alternatives

Success Criterion	Result	Observations
1.1.1: Non-text Content	Entire sample Result: Passed	

1.2 Time-based Media

Success Criterion	Result	Observations
1.2.1: Audio-only and Video-only (Prerecorded)	Entire sample Result: Not present	
1.2.2: Captions (Prerecorded)	Entire sample Result: Not present	
1.2.3: Audio Description or Media Alternative (Prerecorded)	Entire sample Result: Not present	
1.2.4: Captions (Live)	Entire sample Result: Not present	
1.2.5: Audio Description (Prerecorded)	Entire sample Result: Not present	

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1.3 Adaptable

Success Criterion	Result	Observations
1.3.1: Info and Relationships	Entire sample Result: Passed	
1.3.2: Meaningful Sequence	Entire sample Result: Passed	
1.3.3: Sensory Characteristics	Entire sample Result: Passed	
1.3.4: Orientation	Entire sample Result: Passed	
1.3.5: Identify Input Purpose	Entire sample Result: Passed	

1.4 Distinguishable

Success Criterion	Result	Observations
1.4.1: Use of Color	Entire sample Result: Passed	

1.4.2: Audio Control	<p>Entire sample</p> <p>Result: Not present</p>	
1.4.3: Contrast (Minimum)	<p>Entire sample</p> <p>Result: Passed</p>	
1.4.4: Resize text	<p>Entire sample</p> <p>Result: Passed</p>	<p>Entire sample</p> <p>Observations:</p> <p>Relies on user agent zoom.</p>
1.4.5: Images of Text	<p>Entire sample</p> <p>Result: Passed</p>	
1.4.10: Reflow	<p>Entire sample</p> <p>Result: Passed</p>	
1.4.11: Non-text Contrast	<p>Entire sample</p> <p>Result: Passed</p>	
1.4.12: Text Spacing	<p>Entire sample</p> <p>Result: Passed</p>	
1.4.13: Content on Hover or Focus	<p>Entire sample</p> <p>Result: Not present</p>	

2 Operable

2.1 Keyboard Accessible

Success Criterion	Result	Observations
2.1.1: Keyboard	Entire sample Result: Passed	
2.1.2: No Keyboard Trap	Entire sample Result: Passed	
2.1.4: Character Key Shortcuts	Entire sample Result: Passed	

2.2 Enough Time

Success Criterion	Result	Observations
2.2.1: Timing Adjustable	Entire sample Result: Not present	
2.2.2: Pause, Stop, Hide	Entire sample Result: Not present	

2.3 Seizures and Physical Reactions

Success Criterion	Result	Observations
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2.3.1: Three Flashes or Below Threshold	Entire sample Result: Passed	
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2.4 Navigable

Success Criterion	Result	Observations
2.4.1: Bypass Blocks	Entire sample Result: Passed	
2.4.2: Page Titled	Entire sample Result: Passed	
2.4.3: Focus Order	Entire sample Result: Passed	
2.4.4: Link Purpose (In Context)	Entire sample Result: Passed	
2.4.5: Multiple Ways	Entire sample Result: Passed	
2.4.6: Headings and Labels	Entire sample Result: Passed	

2.4.7: Focus Visible	Entire sample Result: Passed	
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2.5 Input Modalities

Success Criterion	Result	Observations
2.5.1: Pointer Gestures	Entire sample Result: Passed	
2.5.2: Pointer Cancellation	Entire sample Result: Passed	
2.5.3: Label in Name	Entire sample Result: Passed	
2.5.4: Motion Actuation	Entire sample Result: Not present	

3 Understandable

3.1 Readable

Success Criterion	Result	Observations
3.1.1: Language of Page	Entire sample Result: Passed	

3.1.2: Language of Parts	Entire sample Result: Passed	
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3.2 Predictable

Success Criterion	Result	Observations
3.2.1: On Focus	Entire sample Result: Passed	
3.2.2: On Input	Entire sample Result: Cannot tell	Entire sample Observations: Hardware IDE code triggers changes in the UI. It's unclear whether this violates the requirements or not.
3.2.3: Consistent Navigation	Entire sample Result: Passed	
3.2.4: Consistent Identification	Entire sample Result: Passed	

3.3 Input Assistance

Success Criterion	Result	Observations
3.3.1: Error Identification	Entire sample Result: Passed	

3.3.2: Labels or Instructions	Entire sample Result: Passed	
3.3.3: Error Suggestion	Entire sample Result: Passed	
3.3.4: Error Prevention (Legal, Financial, Data)	Entire sample Result: Not present	

4 Robust

4.1 Compatible

Success Criterion	Result	Observations
4.1.1: Parsing	Entire sample Result: Passed	
4.1.2: Name, Role, Value	Entire sample Result: Passed	
4.1.3: Status Messages	Entire sample Result: Passed	

Sample of Audited Web Pages

1. Home - <https://chipsandcode.com/>

2. Hardware Background - <https://chipsandcode.com/learn/hardware/boolean-logic/background>
3. Boolean Logic Intro - <https://chipsandcode.com/learn/hardware/boolean-logic>
4. Hardware IDE with XOR - <https://chipsandcode.com/experiment/hardware-ide/nnDG6JRQjL0aNVb7AJHnmZrv02pHIINF>
5. -
6. Home - <https://chipsandcode.com/>
7. Hardware Background - <https://chipsandcode.com/learn/hardware/boolean-logic/background>
8. Hardware IDE with XOR - <https://chipsandcode.com/experiment/hardware-ide/nnDG6JRQjL0aNVb7AJHnmZrv02pHIINF>

Web Technology

HTML,CSS,WAI-ARIA,JavaScript,SVG,MathML

Recording of Evaluation Specifics

Not provided