

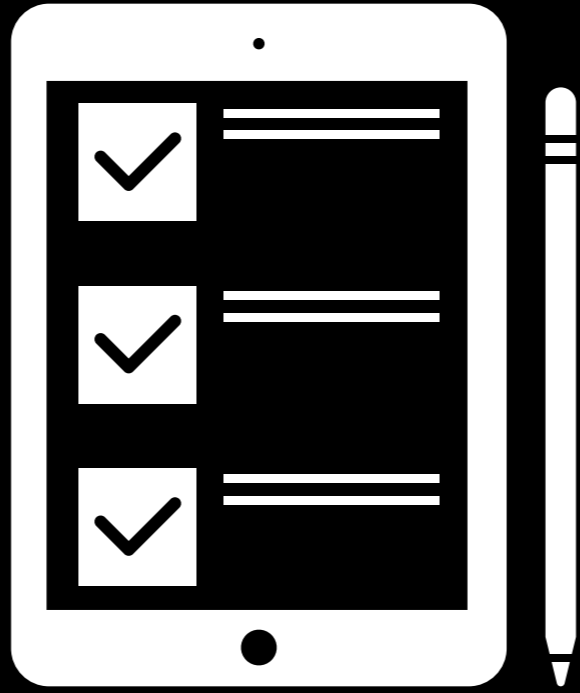
#WWDC19

# Auditing Web Content with Web Inspector

Jonathan Davis, Web Technologies Evangelist

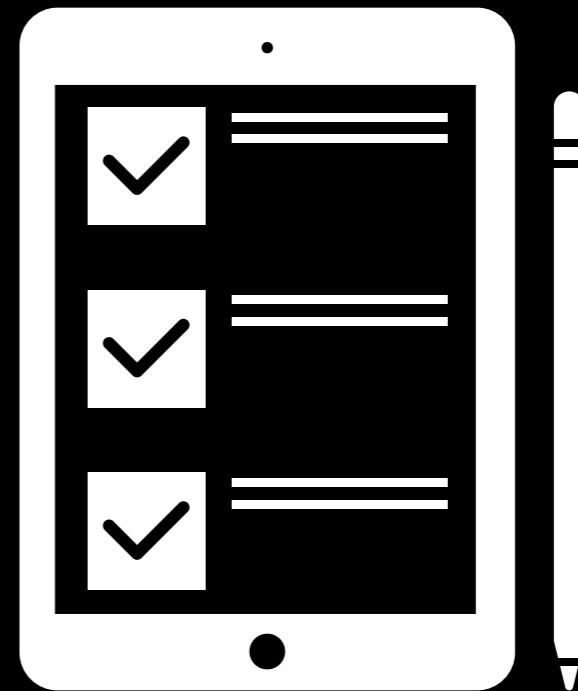
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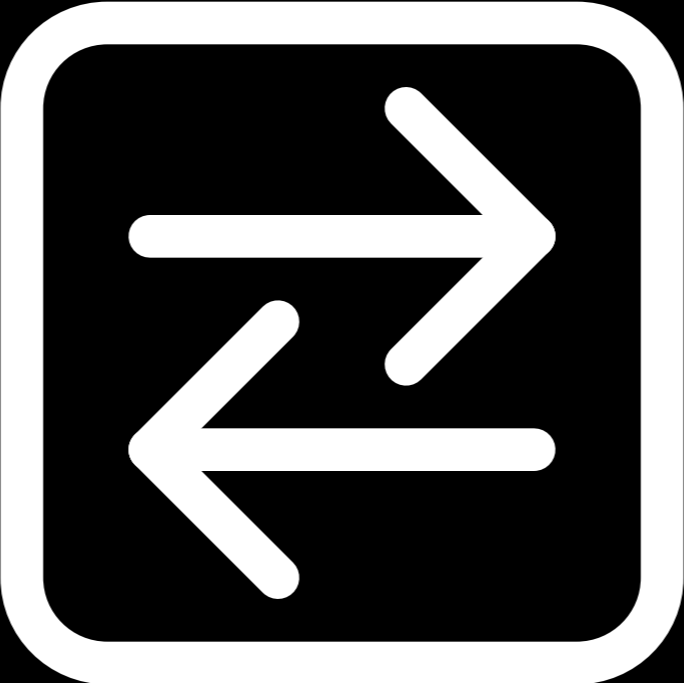
WebDriver



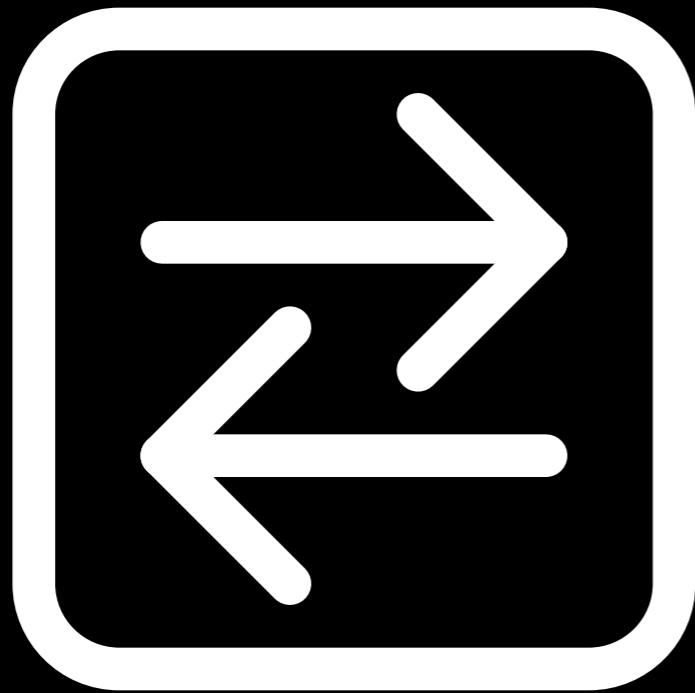
NEW



WebDriver



NEW



Audit

# Using Audits



Using Audits

Working with Tests

Using Audits

Working with Tests

Creating Custom Audits

Advanced

General Tabs AutoFill Passwords Search Security Privacy Websites Extensions Advanced

Smart Search Field:  Show full website address

Accessibility:  Never use font sizes smaller than 9  Press Tab to highlight each item on a webpage  
Option-Tab highlights each item.

Reading List:  Save articles for offline reading automatically

Internet plug-ins:  Stop plug-ins to save power

Style sheet: None Selected

Default encoding: Western (ISO Latin 1)

Proxies: Change Settings...

Show Develop menu in menu bar

?

Advanced

General Tabs AutoFill Passwords Search Security Privacy Websites Extensions **Advanced**

Smart Search Field:  Show full website address

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Advanced

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Default encoding: Western (ISO Latin 1)

Proxies: Change Settings...

Show Develop menu in menu bar

?



[Blog](#)

[Downloads](#)

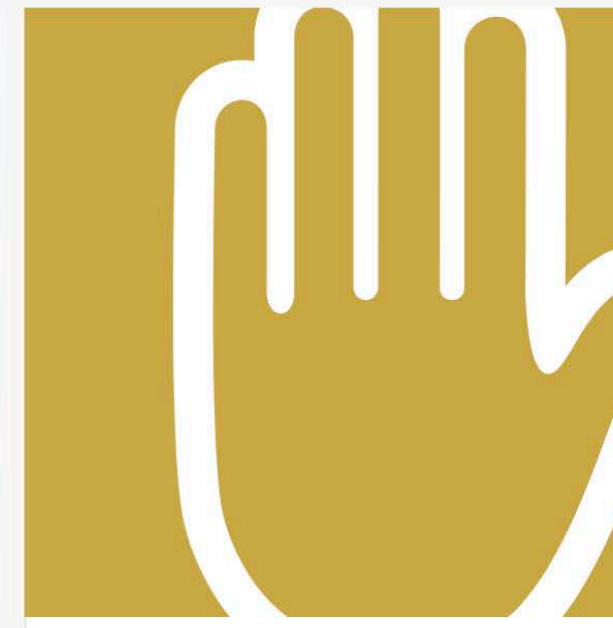
[Feature Status](#)

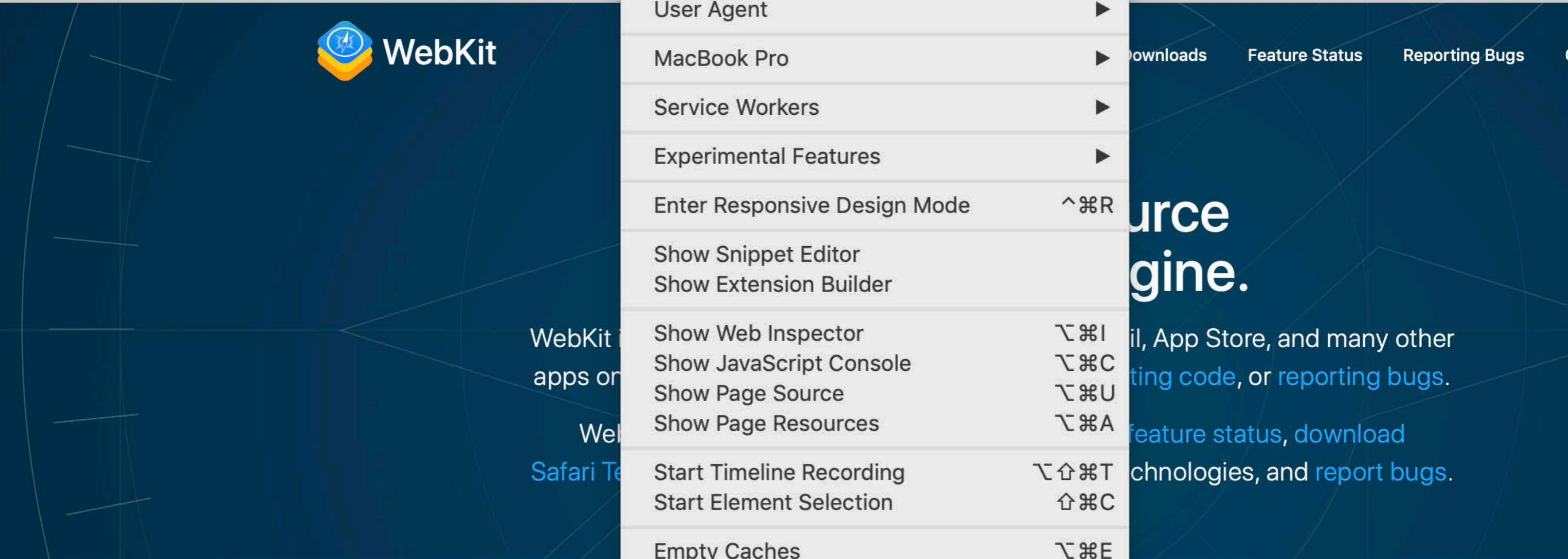
[Reporting Bugs](#)

# A fast, open source web browser engine.

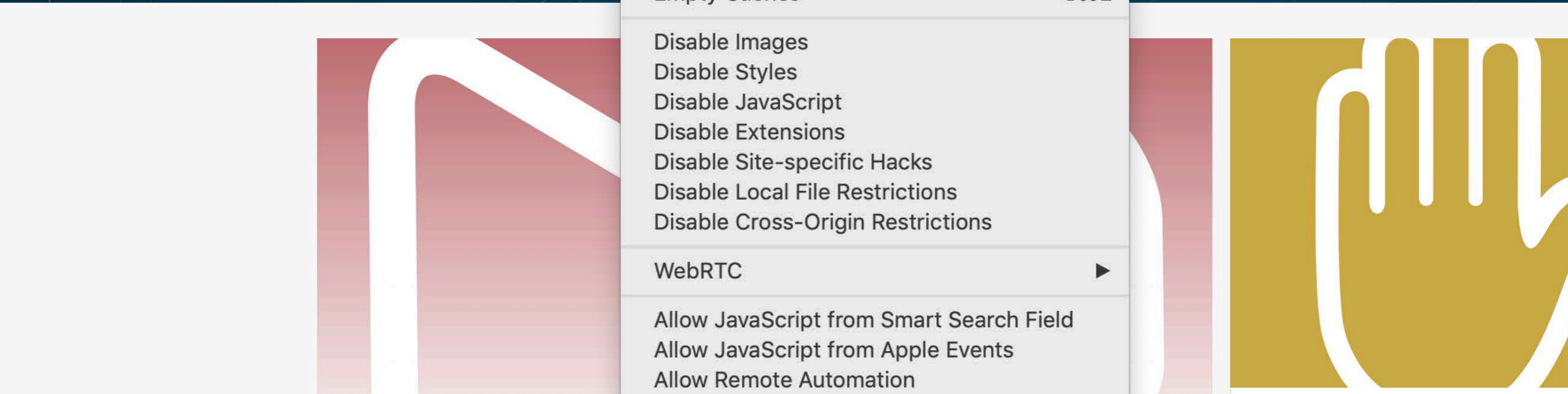
WebKit is the [web browser engine](#) used by Safari, Mail, App Store, and many other apps on macOS, iOS, and Linux. [Get started contributing code](#), or [reporting bugs](#).

Web developers can [follow development](#), [check feature status](#), [download Safari Technology Preview](#) to try out the latest web technologies, and [report bugs](#).





- Open Page With User Agent ▶
- MacBook Pro ▶
- Service Workers ▶
- Experimental Features ▶
- Enter Responsive Design Mode ^⌘R
- Show Snippet Editor
- Show Extension Builder
- Show Web Inspector ⌘⌘I
- Show JavaScript Console ⌘⌘C
- Show Page Source ⌘⌘U
- Show Page Resources ⌘⌘A
- Start Timeline Recording ⌘⇧⌘T
- Start Element Selection ⇧⌘C
- Empty Caches ⌘⌘E
- Disable Images
- Disable Styles
- Disable JavaScript
- Disable Extensions
- Disable Site-specific Hacks
- Disable Local File Restrictions
- Disable Cross-Origin Restrictions
- WebRTC ▶
- Allow JavaScript from Smart Search Field
- Allow JavaScript from Apple Events
- Allow Remote Automation



- Open Page With User Agent ▶
- MacBook Pro ▶
- Service Workers ▶
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- Enter Responsive Design Mode <sup>⌘</sup>⌘R
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- Show Page Resources <sup>⌘</sup>⌘A
- Start Timeline Recording <sup>⌘</sup>⌘⇧T
- Start Element Selection <sup>⌘</sup>⌘⇧C
- Empty Caches <sup>⌘</sup>⌘E
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- Disable Site-specific Hacks
- Disable Local File Restrictions
- Disable Cross-Origin Restrictions
- WebRTC ▶
- Allow JavaScript from Smart Search Field
- Allow JavaScript from Apple Events
- Allow Remote Automation



WebKit  
apps on  
We  
Safari Te

Downloads Feature Status Reporting Bugs

Source  
Engine.

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ting code, or reporting bugs.  
feature status, download  
chnologies, and report bugs.



- Open Page With User Agent ▶
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- Enter Responsive Design Mode ^⌘R
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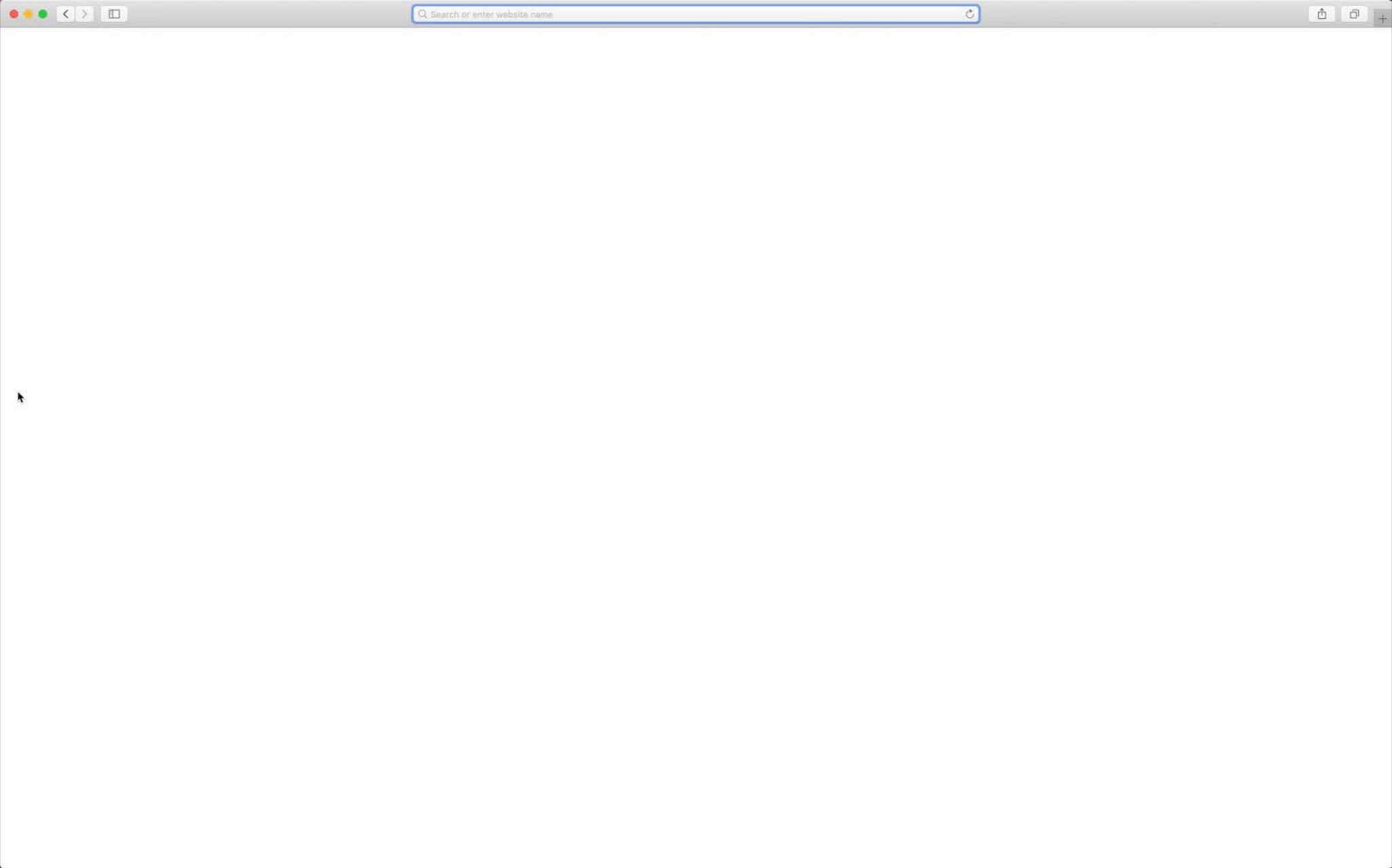


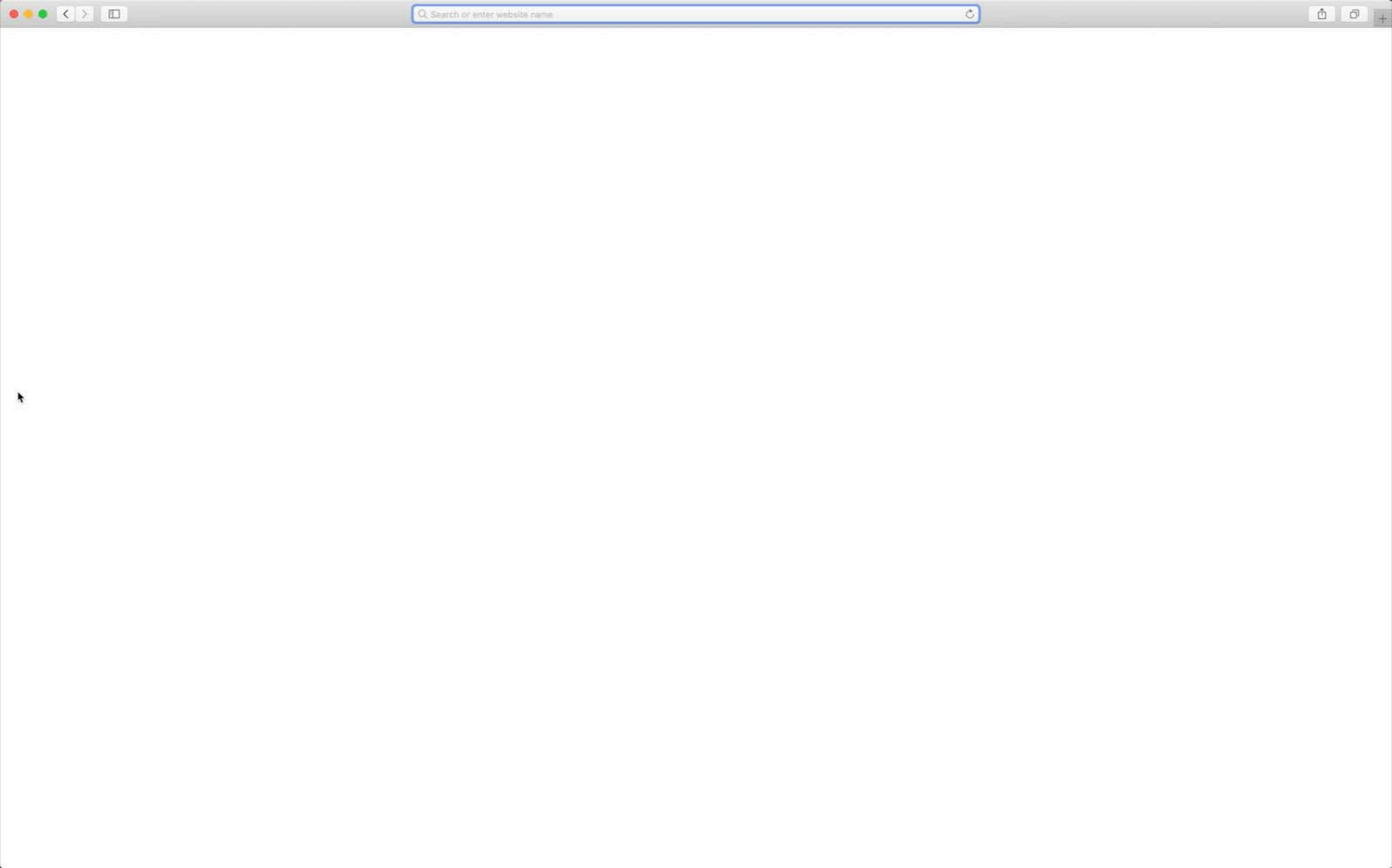
WebKit  
apps on  
We  
Safari Te

Downloads Feature Status Reporting Bugs

Source  
Engine.

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ting code, or reporting bugs.  
feature status, download  
chnologies, and report bugs.





Web Inspector — webkit.org

12

Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▶ Demo Audit
- ▶ Accessibility

Edit

Filter

Audit version: 2

No audit selected

Press [Import](#) to import a test or result file

The image shows a screenshot of the Web Inspector interface, specifically the Audit panel. The top of the window has a title bar with the text "Web Inspector — webkit.org". Below the title bar is a navigation bar with various tool icons: Elements, Network, Resources, Debugger, Timelines, Console, Storage, Canvas, Audit, and Search. The Audit panel is currently active, showing a "Start" button and an "Import" button. On the left side of the Audit panel, there are two expandable sections: "Demo Audit" and "Accessibility". The main area of the Audit panel is empty, displaying the message "No audit selected" in a large, bold font. Below this message, it says "Press [Import](#) to import a test or result file". At the bottom of the Audit panel, there is a "Filter" input field and the text "Audit version: 2".

Navigation and tool tabs: Elements, Network, Resources, Debugger, Timelines, Console, Storage, Canvas. Includes refresh, download, and document icons.

▶ Start | ⬇ Import

- ▶ Demo Audit
- ▶ Accessibility



Navigation icons: | < | >

# No audit selected

Press Import to import a test or result file

Navigation bar with icons for window management, refresh, and download, followed by a document icon labeled '12' and status indicators for messages, errors, and warnings. Below this are tabs for 'Elements', 'Network', 'Resources', 'Debugger', 'Timelines', 'Console', 'Storage', and 'Canvas'.

▶ Start | ⬇ Import

- ▶  Demo Audit
- ▶  Accessibility

# No audit selected

Press  Import to import a test or result file

Navigation bar with icons for Elements, Network, Resources, Debugger, Timelines, Console, Storage, and Canvas. Includes a search bar with '12' and notification icons for messages, errors, and warnings.

▶ Start | ⬇ Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

# No audit selected

Press [⬇ Import](#) to import a test or result file

Start Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
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- ▶ Accessibility

# No audit selected

Press [Import](#) to import a test or result file



▶ Start | ⬇️ Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
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  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

# No audit selected

Press [⬇️ Import](#) to import a test or result file

▶ Start | ⬇ Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass**
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

# No audit selected

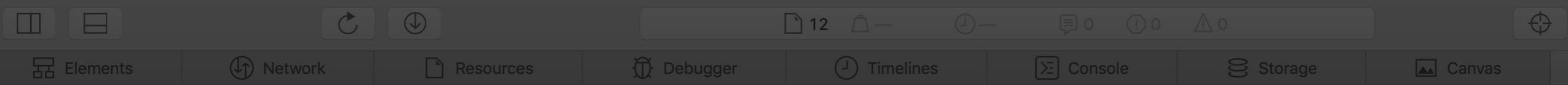
Press [⬇ Import](#) to import a test or result file

▶ Start | ⬇ Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

# No audit selected

Press [⬇ Import](#) to import a test or result file



▶ Start    ⬇ Import

- ▼ Demo Audit
  - ▼ Result Levels
    - 🕒 level-pass
    - 🕒 level-warn
    - 🕒 level-fail
    - 🕒 level-error
    - 🕒 level-unsupported
  - ▼ Result Data
    - 🕒 data-domNodes
    - 🕒 data-domAttributes
    - 🕒 data-errors
  - ▶ Accessibility

# No audit selected

Press [⬇ Import](#) to import a test or result file

▶ Start | ⬇ Import

- ▼ **T** Demo Audit
  - ▼ **T** Result Levels
    - t** level-pass
    - t** level-warn
    - t** level-fail
    - t** level-error
    - t** level-unsupported
  - ▼ **T** Result Data
    - t** data-domNodes
    - t** data-domAttributes
    - t** data-errors
  - ▶ **T** Accessibility

# No audit selected

Press  to import a test or result file

▶ Start | ⬇ Import

- ▼ Demo Audit
  - ▼ Results
    - level
    - level
    - level
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

- Start
- Export Test
- Expand All
- Collapse All

# No audit selected

Press [⬇ Import](#) to import a test or result file

Web Inspector — webkit.org

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

Edit

Filter

Audit version: 2

No audit selected

Press [Import](#) to import a test or result file

Web Inspector — webkit.org

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
  - ▶ Accessibility

Edit

Filter

No audit selected

Press [Import](#) to import a test or result file

Audit version: 2

The image shows the Web Inspector interface with the Audit panel active. The left sidebar contains a tree view of audit categories: 'Demo Audit' (expanded), 'Result Levels' (expanded), 'Result Data' (expanded), and 'Accessibility'. Under 'Result Levels', there are five sub-items: 'level-pass', 'level-warn', 'level-fail', 'level-error', and 'level-unsupported'. Under 'Result Data', there are three sub-items: 'data-domNodes', 'data-domAttributes', and 'data-errors'. The main area of the Audit panel is empty and displays the message 'No audit selected' with a sub-message 'Press Import to import a test or result file'. The 'Import' button is highlighted. At the bottom of the Audit panel, it says 'Audit version: 2'. The top of the window shows the title bar 'Web Inspector — webkit.org' and a toolbar with various icons for navigation and search.



Web Inspector — webkit.org

7

Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Demo Audit Export

## Demo Audit

Showing: 3 Passed 1 Warning 1 Failed 2 Errors 1 Unsupported **37%**

These tests serve as a demonstration of the functionality and structure of audits.

### Result Levels

Showing: 1 Passed 1 Warning 1 Failed 1 Error 1 Unsupported **20%**

These are all of the different test result levels.

- level-pass** (4.00ms)
 

This is what the result of a passing test with no data looks like.

5/20/2019, 8:34:50 PM
- level-warn** (2.00ms)
 

This is what the result of a warning test with no data looks like.

5/20/2019, 8:34:50 PM
- level-fail** (2.00ms)
 

This is what the result of a failing test with no data looks like.

5/20/2019, 8:34:50 PM
- level-error** (2.00ms)
 

This is what the result of a test that threw an error with no data looks like.

5/20/2019, 8:34:50 PM
- level-unsupported** (15.0ms)
 

This is what the result of an unsupported test with no data looks like.

5/20/2019, 8:34:50 PM

### Result Data

Showing: 2 Passed 1 Error **66%**

These are all of the different types of data that can be returned with the test result.

- data-domNodes** (15.0ms)
 

This is an example of how result DOM nodes are shown. It will pass with the <body> element.

**DOM Nodes:**

```
1 > <body class="home page-template-default page page-id-4118">...</body>
```
- data-domAttributes** (3.00ms)
 

This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.

**DOM Nodes:**

```
1 <link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/style.min.css?ver=5.1.1" type="text/css" media="all">
```

Filter

- level-pass
- level-warn
- level-fail
- level-error
- level-unsupported
- Result Data
  - data-domNodes
  - data-domAttributes
  - data-errors
- Accessibility
- Results
  - Run 1

# Demo Audit

These tests serve as a demonstration of the functionality and structure of audits.

Showing: 3 Passed 1 Warning 1 Failed

## Result Levels

These are all of the different test result levels.

Showing: 1 Passed 1 Warning 1 Failed

- level-pass**  
This is what the result of a passing test with no data looks like.
- level-warn**  
This is what the result of a warning test with no data looks like.
- level-fail**  
This is what the result of a failing test with no data looks like.
- level-error**  
This is what the result of a test that threw an error with no data looks like.
- level-unsupported**  
This is what the result of an unsupported test with no data looks like.

## Result Data

These are all of the different types of data that can be returned with the test result.

Showing

**data-domNodes**  
This is an example of how result DOM nodes are shown. It will pass with the <body> element.  
**DOM Nodes:**  
1 ▶ `<body class="home page-template-default page page-id-4118">...</body>`

**data-domAttributes**  
This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.  
**DOM Nodes:**  
1 `<link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/st...  
2 ▶ <filter id="invertlightness" value="0" value="0" style="color: interpolation; filter: invert(1);"></filter>`

Edit

Filter



- level-pass
- level-warn
- level-fail
- level-error
- level-unsupported
- Result Data
  - data-domNodes
  - data-domAttributes
  - data-errors
- Accessibility
- Results
  - Run 1

# Demo Audit

These tests serve as a demonstration of the functionality and structure of audits.

Showing: 3 Passed 1 Warning 1 Failed

## Result Levels

These are all of the different test result levels.

Showing: 1 Passed 1 Warning 1 Failed

- level-pass**  
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This is what the result of a warning test with no data looks like.
- level-fail**  
This is what the result of a failing test with no data looks like.
- level-error**  
This is what the result of a test that threw an error with no data looks like.
- level-unsupported**  
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## Result Data

These are all of the different types of data that can be returned with the test result.

Showing

**data-domNodes**  
This is an example of how result DOM nodes are shown. It will pass with the <body> element.  
**DOM Nodes:**  
1 ▶ `<body class="home page-template-default page page-id-4118">...</body>`

**data-domAttributes**  
This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.  
**DOM Nodes:**  
1 `<link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/st...  
2 ▶ <filter id="invertlightness" value="0" value="0" style="color: interpolation: filter; opacity: 0.5; </filter>`

Edit

Filter



- level-pass
- level-warn
- level-fail
- level-error
- level-unsupported
- ▼  Result Data
  - data-domNodes
  - data-domAttributes
  - data-errors
- ▶  Accessibility

Done

Filter

# Editing audits

Press  to stop editing

Audit version: 2





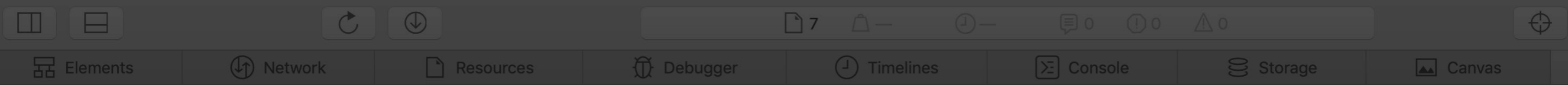
▶ Start | ⬇ Import



- ▼ **T** Demo Audit ✓
- ▼ **T** Result Levels ✓
  - t** level-pass ✓
  - t** level-warn ✓
  - t** level-fail ✓
  - t** level-error ✓
  - t** level-unsupported ✓
- ▼ **T** Result Data ✓
  - t** data-domNodes ✓
  - t** data-domAttributes ✓
  - t** data-errors ✓
- ▶ **T** Accessibility ✓

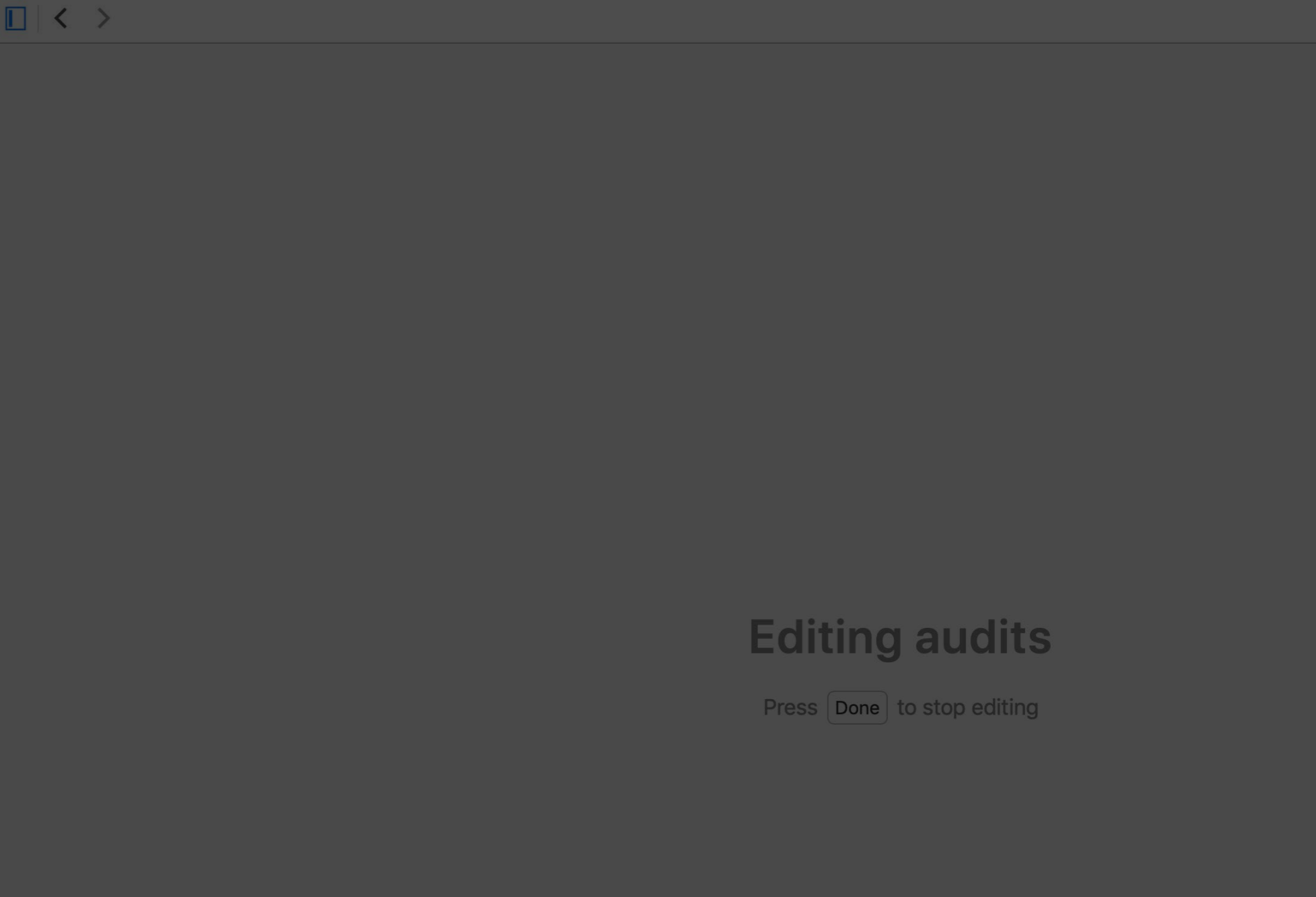
## Editing audits

Press  to stop editing



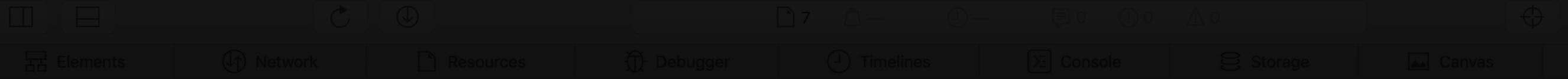
▶ Start | ⬇ Import

- ▼  Demo Audit
- ▼  Result Levels 
  - level-pass
  - level-warn
  - level-fail
  - level-error
  - level-unsupported
- ▼  Result Data 
  - data-domNodes
  - data-domAttributes
  - data-errors
- ▶  Accessibility



# Editing audits

Press  to stop editing

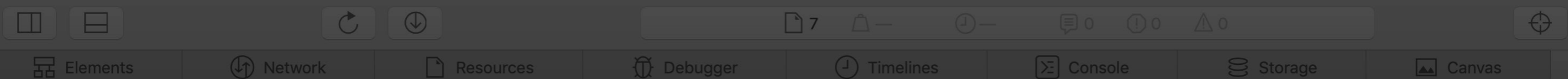


▶ Start | ⬇ Import

- ▼  Demo Audit
- ▼  Result Levels 
  - level-pass
  - level-warn
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## Editing audits

Press  to stop editing



▶ Start | ⬇ Import

- ▼ Demo Audit
- ▼ Result Levels 
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  - level-warn
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  - level-error
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## Editing audits

Press  to stop editing



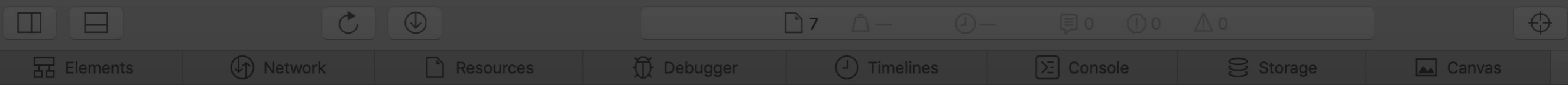
Navigation bar with icons for Elements, Network, Resources, Debugger, Timelines, Console, Storage, and Canvas. Includes a search bar and status indicators.

▶ Start | ⬇ Import

- ▼ **Demo Audit**
- ▼ **Result Levels** 
  - level-pass
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  - data-domNodes
  - data-domAttributes
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- ▶ **Accessibility**

## Editing audits

Press **Done** to stop editing



▶ Start | ⬇ Import

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## Editing audits

Press  to stop editing

Web Inspector — webkit.org

7

Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▼ Demo Audit
- ▼ Result Levels 
  - level-pass
  - level-warn
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- ▶ Accessibility

Done

Filter

Editing audits

Press **Done** to stop editing

Audit version: 2

Web Inspector — webkit.org

7

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Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

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Audit version: 2

Web Inspector — webkit.org

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Web Inspector — webkit.org

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Demo Audit Export

## Demo Audit

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This is what the result of a failing test with no data looks like.

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- level-error** (2.00ms)
 

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5/20/2019, 8:34:50 PM
- level-unsupported** (15.0ms)
 

This is what the result of an unsupported test with no data looks like.

5/20/2019, 8:34:50 PM

### Result Data

Showing: 2 Passed 1 Error **66%**

These are all of the different types of data that can be returned with the test result.

- data-domNodes** (15.0ms)
 

This is an example of how result DOM nodes are shown. It will pass with the <body> element.

**DOM Nodes:**

```
1 > <body class="home page-template-default page page-id-4118">...</body>
```
- data-domAttributes** (3.00ms)
 

This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.

**DOM Nodes:**

```
1 <link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/style.min.css?ver=5.1.1" type="text/css" media="all">
```

Filter

Web Inspector — webkit.org

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass ✓
    - level-warn ⚠
    - level-fail ✖
    - level-error !
    - level-unsupported ⚡
  - ▼ Result Data
    - data-domNodes ✓
    - data-domAttributes ✓
    - data-errors !
- ▼ Results
  - ▼ Run 1
    - ▼ Demo Audit
      - ▼ Result Levels
        - level-pass ✓
        - level-warn ⚠
        - level-fail ✖
        - level-error !
        - level-unsupported ⚡
      - ▼ Result Data
        - data-domNodes ✓
        - data-domAttributes ✓
        - data-errors !

No audit selected

Press [Import](#) to import a test or result file

Edit

Filter

Audit version: 2

Web Inspector — webkit.org

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass ✓
    - level-warn ⚠
    - level-fail ✖
    - level-error !
    - level-unsupported ⚡
  - ▼ Result Data
    - data-domNodes ✓
    - data-domAttributes ✓
    - data-errors !
- Results
  - ▼ Run 1
    - ▼ Demo Audit
      - ▼ Result Levels
        - level-pass ✓
        - level-warn ⚠
        - level-fail ✖
        - level-error !
        - level-unsupported ⚡
      - ▼ Result Data
        - data-domNodes ✓
        - data-domAttributes ✓
        - data-errors !

No audit selected

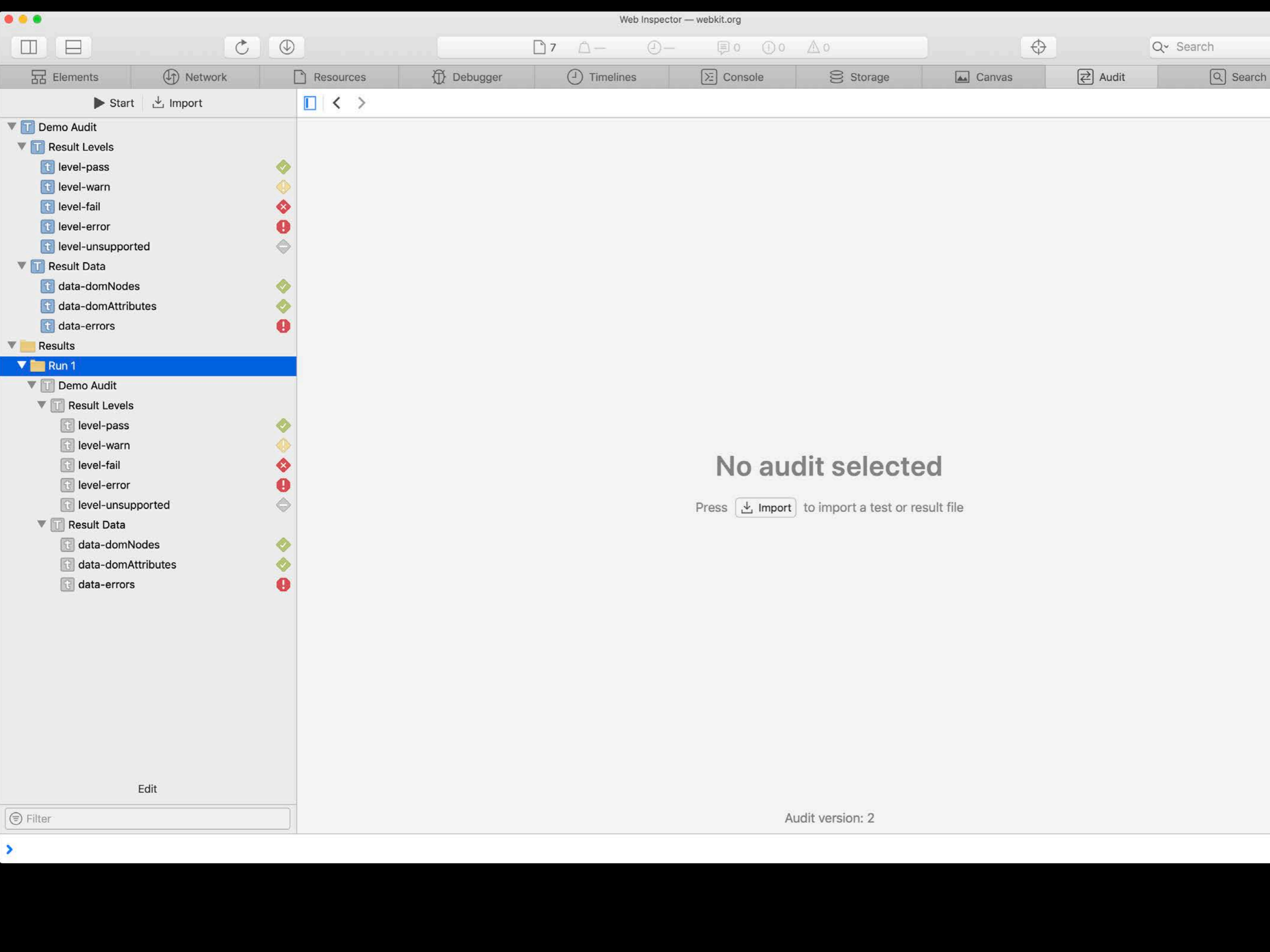
Press [Import](#) to import a test or result file

Edit

Filter

Audit version: 2





Start Import

< >

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass ✓
    - level-warn ⚠
    - level-fail ✖
    - level-error !
    - level-unsupported ⇅
  - ▼ Result Data
    - data-domNodes ✓
    - data-domAttributes ✓
    - data-errors !
- ▼ Results

- ▼ Run 1
  - ▼ Demo Audit
    - ▼ Result Levels
      - level-pass ✓
      - level-warn ⚠
      - level-fail ✖
      - level-error !
      - level-unsupported ⇅
    - ▼ Result Data
      - data-domNodes ✓
      - data-domAttributes ✓
      - data-errors !

Edit

## No audit selected

Press  to import a test or result file

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass
    - level-warn
    - level-fail
    - level-error
    - level-unsupported
  - ▼ Result Data
    - data-domNodes
    - data-domAttributes
    - data-errors
- ▼ Results
  - ▼ Run 1
    - ▼ Demo Audit
      - ▼ Result Levels
        - level-pass
        - level-warn
        - level-fail
        - level-error
        - level-unsupported
      - ▼ Result Data
        - data-domNodes
        - data-domAttributes
        - data-errors

# Demo Audit

These tests serve as a demonstration of the functionality and structure of audits.

Showing: 3 Passed 1 Warning 1 Failed 2 Errors 1 Unsupported

## Result Levels

These are all of the different test result levels.

Showing: 1 Passed 1 Warning 1 Failed 1 Error 1 Unsupported

### level-pass

This is what the result of a passing test with no data looks like.

5/20/2019, 8:34:50 PM <https://webkit.org/>

### level-warn

This is what the result of a warning test with no data looks like.

5/20/2019, 8:34:50 PM <https://webkit.org/>

### level-fail

This is what the result of a failing test with no data looks like.

5/20/2019, 8:34:50 PM <https://webkit.org/>

### level-error

This is what the result of a test that threw an error with no data looks like.

5/20/2019, 8:34:50 PM <https://webkit.org/>

### level-unsupported

This is what the result of an unsupported test with no data looks like.

5/20/2019, 8:34:50 PM <https://webkit.org/>

## Result Data

These are all of the different types of data that can be returned with the test result.

Showing: 2 Passed 1 Error

### data-domNodes

This is an example of how result DOM nodes are shown. It will pass with the <body> element.

5/20/2019, 8:34:50 PM <https://webkit.org/>

#### DOM Nodes:

```
1 <body class="home page-template-default page page-id-4118">...</body>
```

### data-domAttributes

This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.

5/20/2019, 8:34:50 PM <https://webkit.org/>

#### DOM Nodes:

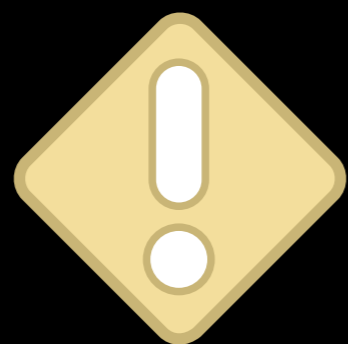
```
1 <link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/style.min.css?ver=5.1.1" type="text/css" media="all">
```

Edit

Filter



Passed



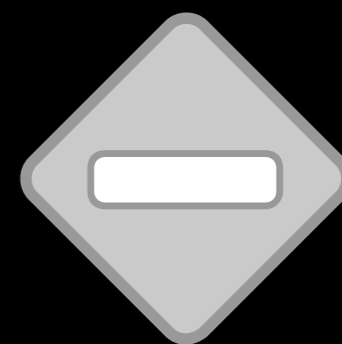
Warning



Failed



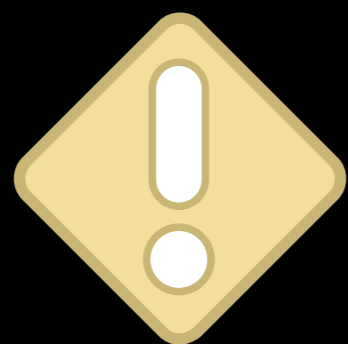
Error



Unsuppor  
ted



Passed



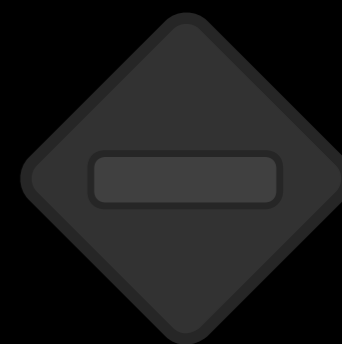
Warning



Failed



Error



Unsuppor  
ted



Passed



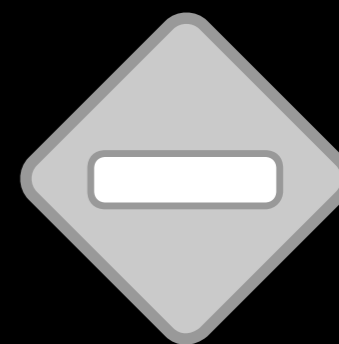
Warning



Failed



Error



Unsuppor  
ted

Start Import

Results Run 1 Demo Audit

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass ✓
    - level-warn ⚠
    - level-fail ✖
    - level-error !
    - level-unsupported ⇐
  - Result Data
    - data-domNodes ✓
    - data-domAttributes ✓
    - data-errors !
- Results
  - Run 1
    - ▼ Demo Audit
      - ▼ Result Levels
        - level-pass ✓
        - level-warn ⚠
        - level-fail ✖
        - level-error !
        - level-unsupported ⇐
      - Result Data
        - data-domNodes ✓
        - data-domAttributes ✓
        - data-errors !

# Demo Audit

These tests serve as a demonstration of the functionality and structure of audits.

Showing: 3 Passed 1 Warning 1 Failed

## Result Levels

These are all of the different test result levels.

Showing: 1 Passed 1 Warning 1 Failed

### level-pass

This is what the result of a passing test with no data looks like.

### level-warn

This is what the result of a warning test with no data looks like.

### level-fail

This is what the result of a failing test with no data looks like.

### level-error

This is what the result of a test that threw an error with no data looks like.

### level-unsupported

This is what the result of an unsupported test with no data looks like.

## Result Data

These are all of the different types of data that can be returned with the test result.

Show

### data-domNodes

This is an example of how result DOM nodes are shown. It will pass with the <body> element.

#### DOM Nodes:

```
1 > <body class="home page-template-default page page-id-4118">...</body>
```

### data-domAttributes

This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.

#### DOM Nodes:

```
1 <link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/st...
  media="all">
```

Edit

Start Import

Results Run 1 Demo Audit

- ▼ Demo Audit
  - ▼ Result Levels
    - level-pass ✓
    - level-warn ⚠
    - level-fail ✖
    - level-error !
    - level-unsupported ⇐
  - Result Data
    - data-domNodes ✓
    - data-domAttributes ✓
    - data-errors !
- Results
  - Run 1
    - ▼ Demo Audit
      - ▼ Result Levels
        - level-pass ✓
        - level-warn ⚠
        - level-fail ✖
        - level-error !
        - level-unsupported ⇐
      - Result Data
        - data-domNodes ✓
        - data-domAttributes ✓
        - data-errors !

# Demo Audit

These tests serve as a demonstration of the functionality and structure of audits.

Showing: 3 Passed 1 Warning 1 Failed

## Result Levels

These are all of the different test result levels.

Showing: 1 Passed 1 Warning 1 Failed

### level-pass

This is what the result of a passing test with no data looks like.

### level-warn

This is what the result of a warning test with no data looks like.

### level-fail

This is what the result of a failing test with no data looks like.

### level-error

This is what the result of a test that threw an error with no data looks like.

### level-unsupported

This is what the result of an unsupported test with no data looks like.

## Result Data

These are all of the different types of data that can be returned with the test result.

Show

### data-domNodes

This is an example of how result DOM nodes are shown. It will pass with the <body> element.

#### DOM Nodes:

```
1 > <body class="home page-template-default page page-id-4118">...</body>
```

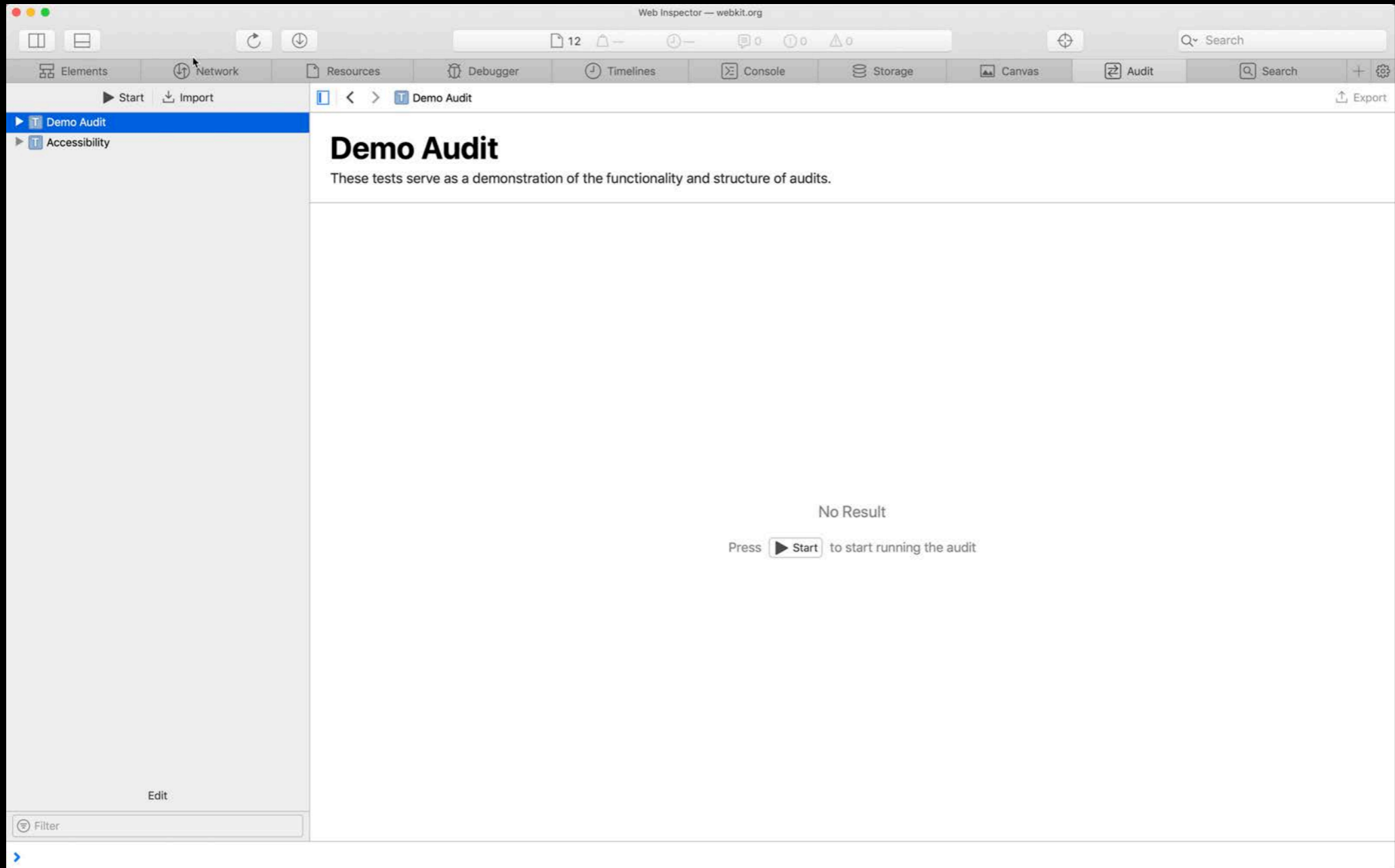
### data-domAttributes

This is an example of how result DOM nodes are shown. It will pass with all elements with an id attribute.

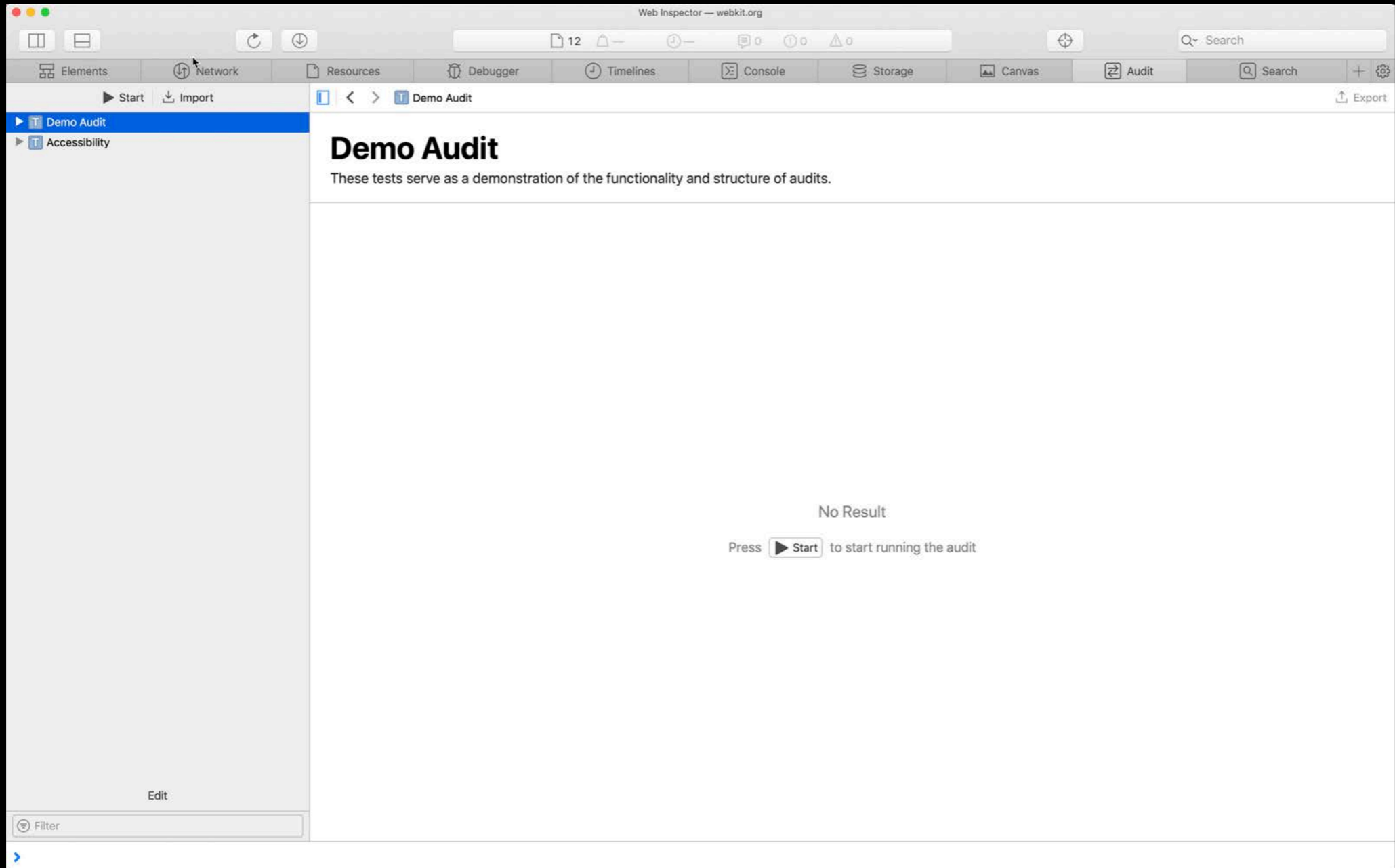
#### DOM Nodes:

```
1 <link rel="stylesheet" id="wp-block-library-css" href="https://webkit.org/wp/wp-includes/css/dist/block-library/st...
  media="all">
```

Edit







Web Inspector — webkit.org

12 Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

# Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

No Result

Press **Start** to start running the audit

Edit

Filter

Web Inspector — webkit.org

12 Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

# Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

No Result

Press **Start** to start running the audit

Edit

Filter

Web Inspector — webkit.org

12 Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

# Accessibility


Diagnoses common accessibility problems affecting screen readers and other assistive technology.

No Result

Press **Start** to start running the audit

Edit

Filter



Web Inspector — webkit.org

12 Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

## Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

Showing: 21 Passed 1 Failed **95%**

- ✖ **testMenuRoleForRequiredChidren**

Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.

**DOM Nodes:**

```
<ul id="menu-main-menu" class="menu" role="menubar">...</ul>
```

5/30/2019, 10:31:27 AM 5.00ms
- ✔ **testGridRoleForRequiredChidren**

Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.

5/30/2019, 10:31:27 AM 2.00ms
- ✔ **testForAriaLabelledBySpelling**

Ensure that "aria-labelledby" is spelled correctly.

5/30/2019, 10:31:27 AM 2.00ms
- ✔ **testForMultipleBanners**

Ensure that only one banner is used on the page.

5/30/2019, 10:31:27 AM 26.0ms
- ✔ **testForLinkLabels**

Ensure that links have accessible labels for assistive technology.

5/30/2019, 10:31:27 AM 19.0ms
- ✔ **testRowGroupRoleForRequiredChidren**

Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.

5/30/2019, 10:31:27 AM 3.00ms
- ✔ **testTableRoleForRequiredChidren**

Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.

5/30/2019, 10:31:27 AM 24.0ms
- ✔ **testForMultipleLiveRegions**

Ensure that only one live region is used on the page.

5/30/2019, 10:31:27 AM 20.0ms
- ✔ **testListBoxRoleForRequiredChidren**

Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.

5/30/2019, 10:31:27 AM 2.00ms
- ✔ **testImageLabels**

Ensure that elements of role "img" have accessible labels for assistive technology.

5/30/2019, 10:31:27 AM 20.0ms

Filter

Web Inspector — webkit.org

12

Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

## Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

Showing: 21 Passed 1 Failed **95%**

- testMenuRoleForRequiredChidren** (Failed)
  - Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.
  - DOM Nodes:
 

```
<ul id="menu-main-menu" class="menu" role="menubar">...</ul>
```
- testGridRoleForRequiredChidren** (Passed)
  - Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.
- testForAriaLabelledBySpelling** (Passed)
  - Ensure that "aria-labelledby" is spelled correctly.
- testForMultipleBanners** (Passed)
  - Ensure that only one banner is used on the page.
- testForLinkLabels** (Passed)
  - Ensure that links have accessible labels for assistive technology.
- testRowGroupRoleForRequiredChidren** (Passed)
  - Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.
- testTableRoleForRequiredChidren** (Passed)
  - Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.
- testForMultipleLiveRegions** (Passed)
  - Ensure that only one live region is used on the page.
- testListBoxRoleForRequiredChidren** (Passed)
  - Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.
- testImageLabels** (Passed)
  - Ensure that elements of role "img" have accessible labels for assistive technology.

Results

Run 1

Accessibility

- testMenuRoleForRequiredChidren
- testGridRoleForRequiredChidren
- testForAriaLabelledBySpelling
- testForMultipleBanners
- testForLinkLabels
- testRowGroupRoleForRequiredChidren
- testTableRoleForRequiredChidren
- testForMultipleLiveRegions
- testListBoxRoleForRequiredChidren
- testImageLabels
- testForAriaHiddenFalse
- testTreeRoleForRequiredChidren
- testRadioGroupRoleForRequiredChidren
- testFeedRoleForRequiredChidren
- testTabListRoleForRequiredChidren
- testButtonLabels
- testRowRoleForRequiredChidren
- testListRoleForRequiredChidren
- testComboBoxRoleForRequiredChidren
- testForMultipleMainContentSections
- testDialogsForLabels
- testForInvalidAriaHiddenValue

Edit

Filter



# A fast, open source web browser engine.

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12

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import

Accessibility

Results

Run 1

Accessibility

- testMenuRoleForRequiredChidren
- testGridRoleForRequiredChidren
- testForAriaLabelledBySpelling
- testForMultipleBanners
- testForLinkLabels
- testRowGroupRoleForRequiredChidren
- testTableRoleForRequiredChidren
- testForMultipleLiveRegions
- testListBoxRoleForRequiredChidren
- testImageLabels
- testForAriaHiddenFalse
- testTreeRoleForRequiredChidren
- testRadioGroupRoleForRequiredChidren

Filter

## Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

Showing: 21 Passed 1 Failed 95%

**testMenuRoleForRequiredChidren** 5/30/2019, 10:49:54 AM 5.00ms

Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.

**DOM Nodes:**

```
1 <ul id="menu-main-menu" class="menu" role="menubar">
  <li id="menu-item-4270" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4270">...</li>
  <li id="menu-item-6091" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-6091">...</li>
  <li id="menu-item-4272" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4272">...</li>
  <li id="menu-item-4273" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4273">...</li>
  <li id="menu-item-4274" class="menu-item menu-item-type-custom menu-item-object-custom menu-item-has-children menu-item-4274">...</li>
</ul>
```

**testGridRoleForRequiredChidren** 5/30/2019, 10:49:54 AM 2.00ms

Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.

**testForAriaLabelledBySpelling** 5/30/2019, 10:49:54 AM 2.00ms

Ensure that "aria-labelledby" is spelled correctly.



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12

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility

## Accessibility

Showing: 21 Passed 1 Failed 95%

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

Test Name	Time	Status
testMenuRoleForRequiredChidren	5/30/2019, 10:49:54 AM	5.00ms
testGridRoleForRequiredChidren	5/30/2019, 10:49:54 AM	2.00ms
testForAriaLabelledBySpelling	5/30/2019, 10:49:54 AM	2.00ms

**testMenuRoleForRequiredChidren**  
Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.

**DOM Nodes:**

```
<ul id="menu-main-menu" class="menu" role="menubar">  
  <li id="menu-item-4270" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4270">...</li>  
  <li id="menu-item-6091" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-6091">...</li>  
  <li id="menu-item-4272" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4272">...</li>  
  <li id="menu-item-4273" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-4273">...</li>  
  <li id="menu-item-4274" class="menu-item menu-item-type-custom menu-item-object-custom menu-item-has-children menu-item-4274">...</li>  
</ul>
```

**testGridRoleForRequiredChidren**  
Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.

**testForAriaLabelledBySpelling**  
Ensure that "aria-labelledby" is spelled correctly.



Web Inspector — webkit.org

12

Search

Elements Network Resources Debugger Timelines Console Storage Canvas Audit Search

Start Import Accessibility Export

## Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

Showing: 22 Passed **100%**

- testMenuRoleForRequiredChidren** (46.0ms)
 

Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.
- testGridRoleForRequiredChidren** (2.00ms)
 

Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.
- testForAriaLabelledBySpelling** (3.00ms)
 

Ensure that "aria-labelledby" is spelled correctly.
- testForMultipleBanners** (27.0ms)
 

Ensure that only one banner is used on the page.
- testForLinkLabels** (31.0ms)
 

Ensure that links have accessible labels for assistive technology.
- testRowGroupRoleForRequiredChidren** (30.0ms)
 

Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.
- testTableRoleForRequiredChidren** (2.00ms)
 

Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.
- testForMultipleLiveRegions** (29.0ms)
 

Ensure that only one live region is used on the page.
- testListBoxRoleForRequiredChidren** (2.00ms)
 

Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.
- testImageLabels** (28.0ms)
 

Ensure that elements of role "img" have accessible labels for assistive technology.
- testForAriaHiddenFalse** (27.0ms)
 










Ensure aria-hidden="false" is not used.

Filter

# Accessibility

Showing: 22 Passed **100%**










Diagnoses common accessibility problems affecting screen readers and other assistive technology.

 <b>testMenuRoleForRequiredChidren</b> Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	46.0ms
 <b>testGridRoleForRequiredChidren</b> Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms
 <b>testForAriaLabelledBySpelling</b> Ensure that "aria-labelledby" is spelled correctly.	5/30/2019, 10:51:04 AM	3.00ms
 <b>testForMultipleBanners</b> Ensure that only one banner is used on the page.	5/30/2019, 10:51:04 AM	27.0ms
 <b>testForLinkLabels</b> Ensure that links have accessible labels for assistive technology.	5/30/2019, 10:51:04 AM	31.0ms
 <b>testRowGroupRoleForRequiredChidren</b> Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	30.0ms
 <b>testTableRoleForRequiredChidren</b> Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms
 <b>testForMultipleLiveRegions</b> Ensure that only one live region is used on the page.	5/30/2019, 10:51:04 AM	29.0ms
 <b>testListBoxRoleForRequiredChidren</b> Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms

# Accessibility

Showing: 22 Passed **100%**

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

 <b>testMenuRoleForRequiredChidren</b> Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	46.0ms
 <b>testGridRoleForRequiredChidren</b> Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms
 <b>testForAriaLabelledBySpelling</b> Ensure that "aria-labelledby" is spelled correctly.	5/30/2019, 10:51:04 AM	3.00ms
 <b>testForMultipleBanners</b> Ensure that only one banner is used on the page.	5/30/2019, 10:51:04 AM	27.0ms
 <b>testForLinkLabels</b> Ensure that links have accessible labels for assistive technology.	5/30/2019, 10:51:04 AM	31.0ms
 <b>testRowGroupRoleForRequiredChidren</b> Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	30.0ms
 <b>testTableRoleForRequiredChidren</b> Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms
 <b>testForMultipleLiveRegions</b> Ensure that only one live region is used on the page.	5/30/2019, 10:51:04 AM	29.0ms
 <b>testListBoxRoleForRequiredChidren</b> Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.	5/30/2019, 10:51:04 AM	2.00ms



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Elements



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Accessibility

Accessibility



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testMenuRoleForRequiredChidren



testGridRoleForRequiredChidren



testForAriaLabelledBySpelling



testForMultipleBanners



testForLinkLabels



testRowGroupRoleForRequiredChidren



testTableRoleForRequiredChidren



testForMultipleLiveRegions



testListBoxRoleForRequiredChidren



testImageLabels



testForAriaHiddenFalse



testTreeRoleForRequiredChidren



testRadioGroupRoleForRequiredChidren



testFeedRoleForRequiredChidren



testTabListRoleForRequiredChidren



testButtonLabels



testRowRoleForRequiredChidren



testListRoleForRequiredChidren



testComboBoxRoleForRequiredChidren



testForMultipleMainContentSections



testDialogsForLabels



testForInvalidAriaHiddenValue



# Accessibility

Diagnoses common accessibility problems affecting screen readers and other assistive technology.

## testMenuRoleForRequiredChidren

Ensure that element of role "menu" and "menubar" have required owned elements in accordance with WAI-ARIA.

## testGridRoleForRequiredChidren

Ensure that elements of role "grid" have required owned elements in accordance with WAI-ARIA.

## testForAriaLabelledBySpelling

Ensure that "aria-labelledby" is spelled correctly.

## testForMultipleBanners

Ensure that only one banner is used on the page.

## testForLinkLabels

Ensure that links have accessible labels for assistive technology.

## testRowGroupRoleForRequiredChidren

Ensure that element of role "rowgroup" have required owned elements in accordance with WAI-ARIA.

## testTableRoleForRequiredChidren

Ensure that elements of role "table" have required owned elements in accordance with WAI-ARIA.

## testForMultipleLiveRegions

Ensure that only one live region is used on the page.

## testListBoxRoleForRequiredChidren

Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.



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Ensure that elements of role "listbox" have required owned elements in accordance with WAI-ARIA.



```
// Example Audit JSON Format
```

```
{  
  "type": "test-group",  
  "name": "Test Group Name",  
  "description": "Description of the test group",  
  "tests": [  
    {  
      "type": "test-case",  
      "name": "testName",  
      "description": "Your description of the test.",  
      "supports": 1,  
      "test": "function () { return {level: 'pass'}; }"    }  
  ]  
}
```

# Creating Web Inspector Audits

Jun 4, 2019  
by Devin Rouso  
@dcrouso

This post is a followup to the Audits in Web Inspector post, and explains the capabilities of and how to write an Audit.

## Test Case Format

The actual test that is run in the page is just a stringified JavaScript function. `async` functions are allowed, as well as non-`async` functions that return a `Promise`. The only requirement is that the return value of the function (or `Promise`) conforms to the following rules:

- Returning `true / false` will translate to a *Pass/Fail* result with no additional data.
- Returning a string value will translate to the corresponding result (e.g. `"pass"` is a *Pass* result)

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Accessibility

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## Accessibility

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No Result

Press **Start** to start running the audit



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File bug reports and share feedback

 **WWDC19**