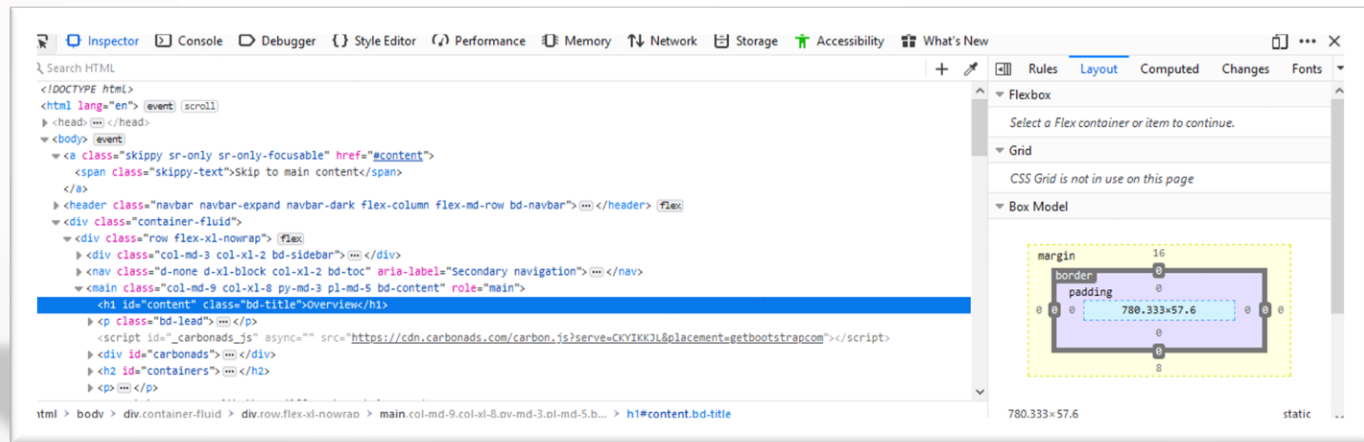# Front-end Development

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Web Developer Tools

Chrome DevTools
Firefox Developer Tools

Web Developer Tools

- A set of web developer tools built into browsers
  - Firefox Developer Tools
  - Chrome DevTools

- Can help you edit pages on-the-fly and **diagnose problems quickly**
  - debugging CSS,
  - prototyping CSS,
  - debugging JavaScript,
  - and analyzing load performance
  - …

How to open

There are three ways to open:

- Keyboard:
  - Ctrl + Shift + I
  - F12

- Menu bar

- Context menu
  Right-click an item on a webpage, and choose **Inspect Element** from the context menu
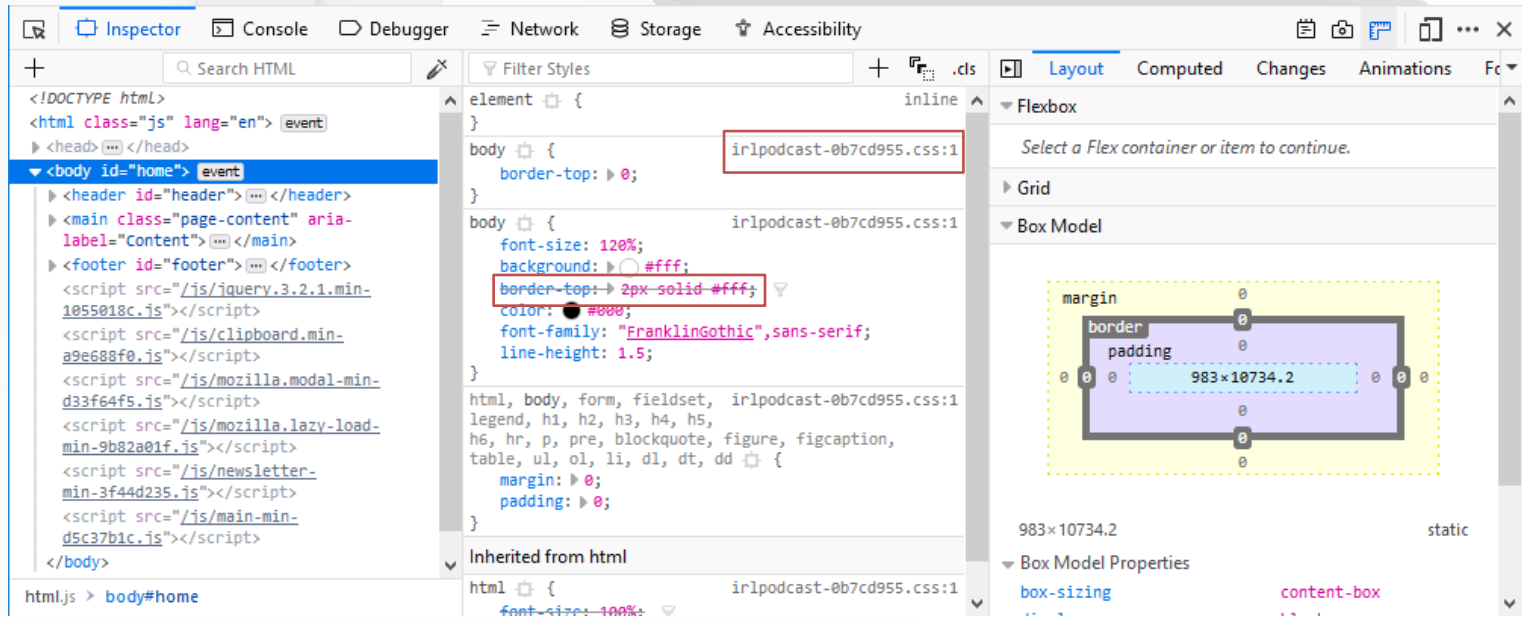
The Core Tools

- Page Inspector
- Web console
- JavaScript Debugger
- Performance Tools
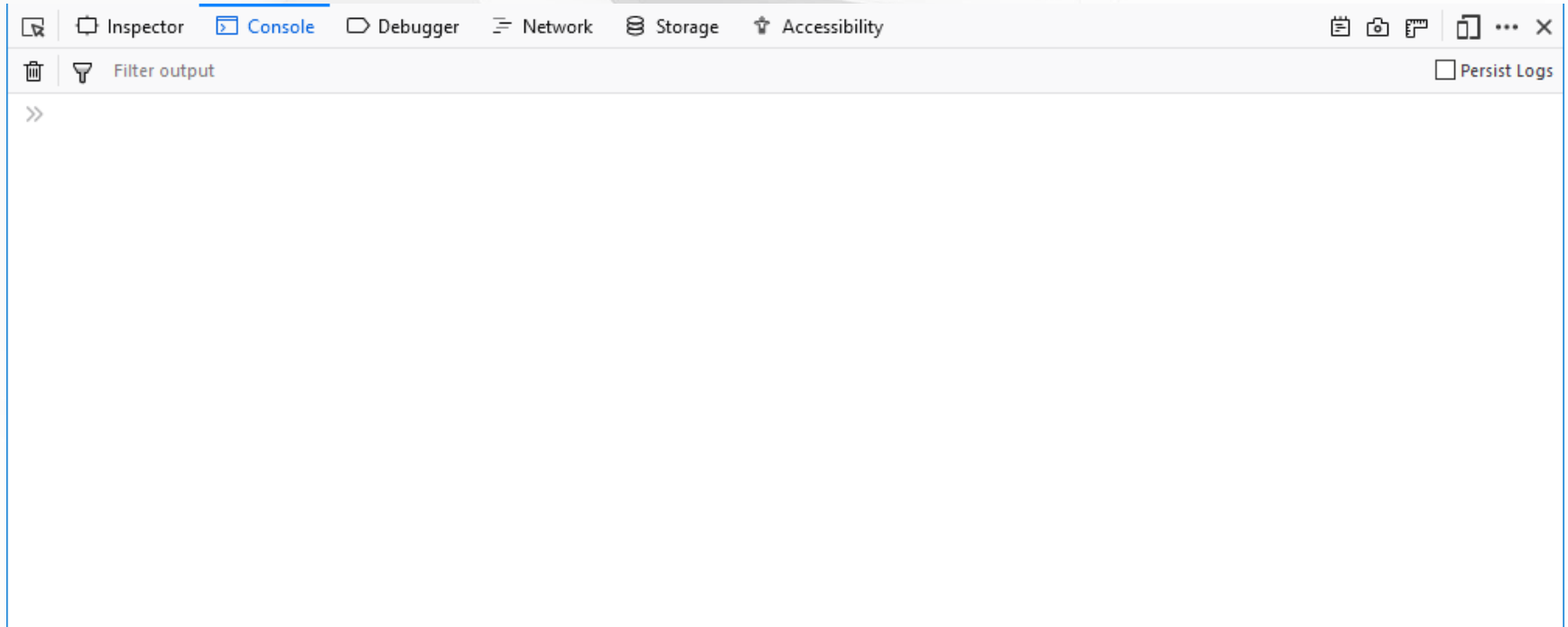- Responsive Design Mode
- Accessibility inspector

Page Inspector

- View and edit page content and layout

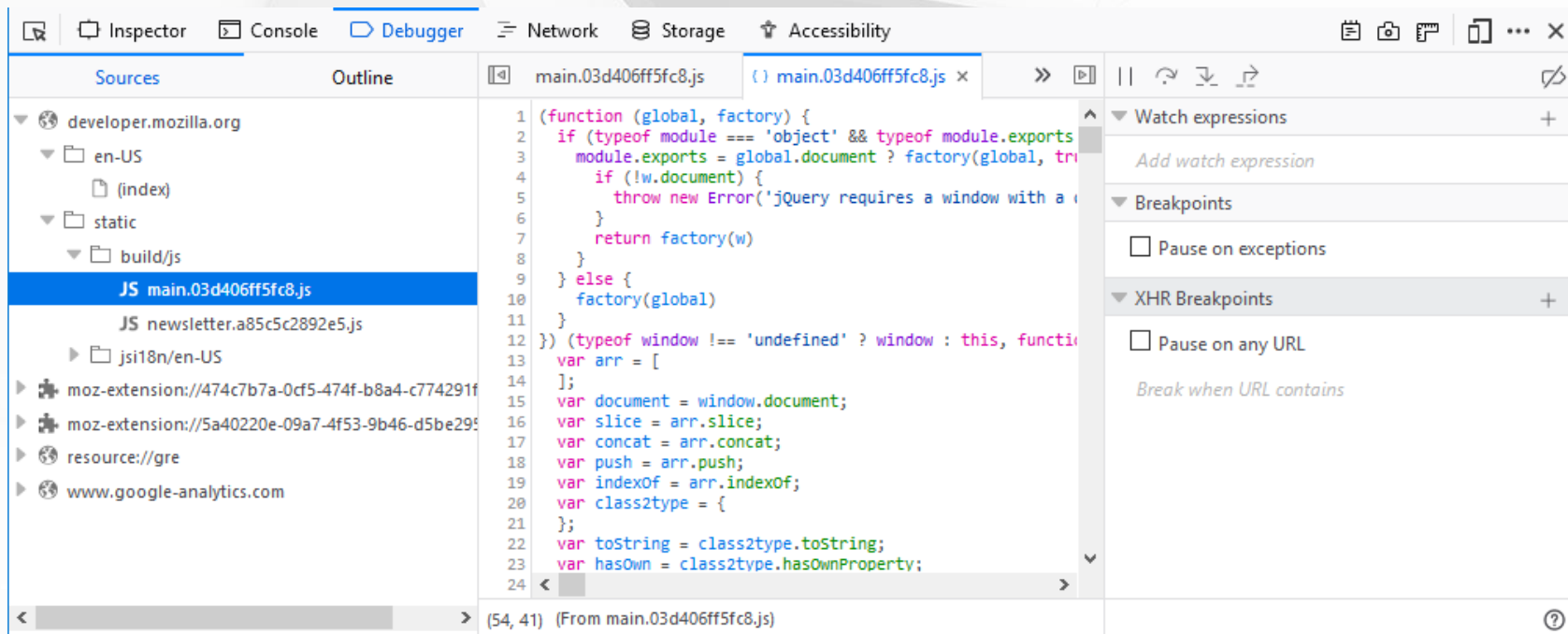- Visualize many aspects of the page including the box model, animations, and grid layouts

Web Console

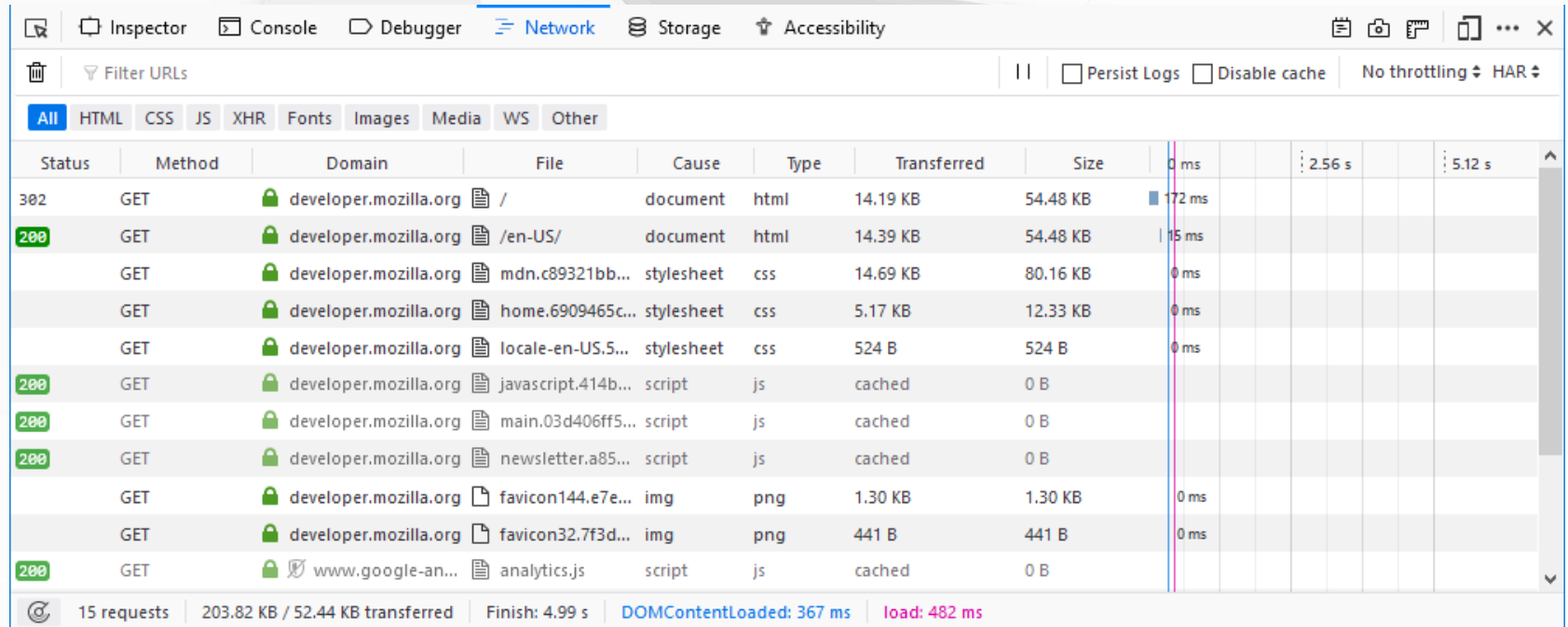**See messages** logged by a web page and **interact** with the page **using JavaScript**

JavaScript Debugger

Stop, step through, examine, and modify the JavaScript running in a page

Network Monitor

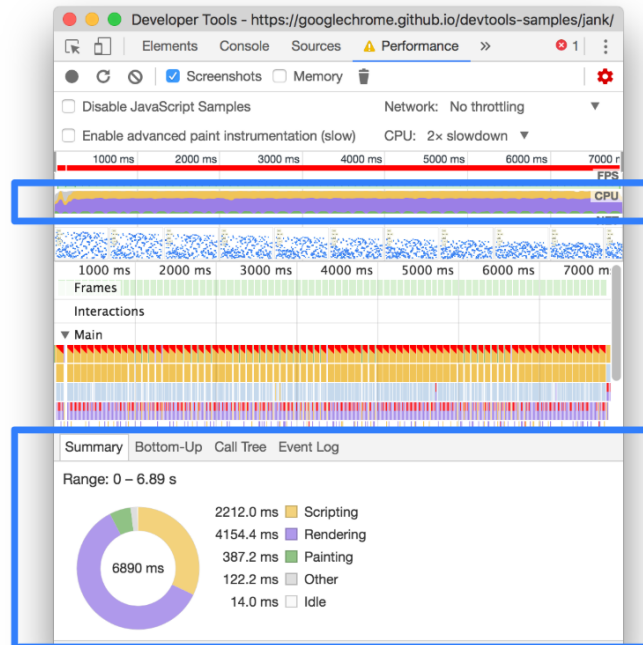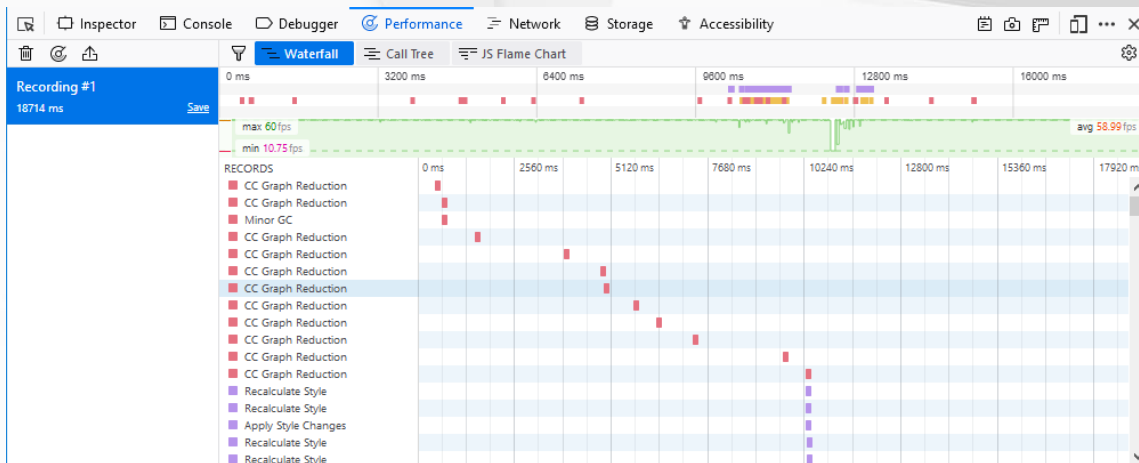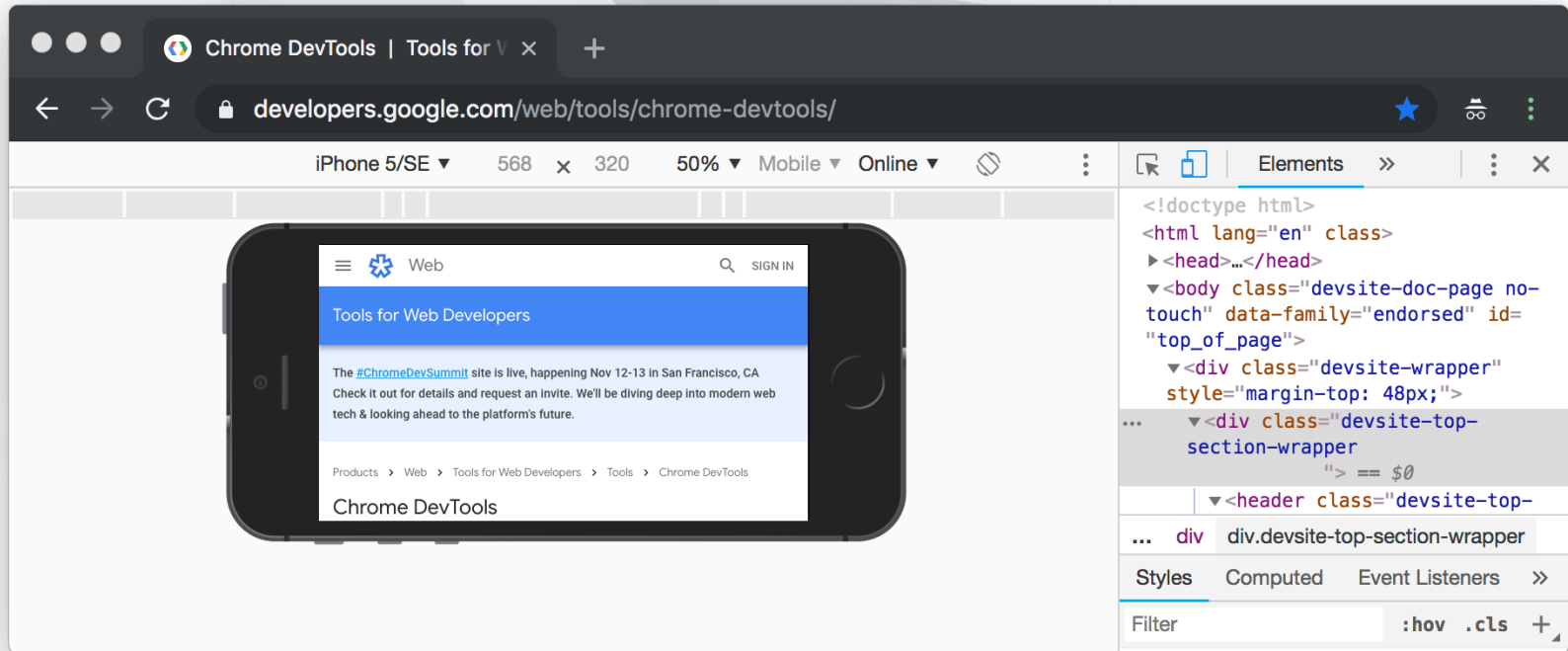See the network requests made when a page is loaded

Performance Tools

Analyze your site's general responsiveness, JavaScript, and layout performance

Responsive Design Mode

See how your website or app will look and behave on different devices and network types

Storage Inspector

Enables you to inspect various types of storage that a web page can use:

- **Cache Storage** — any DOM caches created using the Cache API

- **Cookies** — All the cookies created by the page or any iframes inside of the page. Cookies created as a part of response of network calls are also listed

- **Session Storage** — All session storage items created by the page or any iframes inside the page
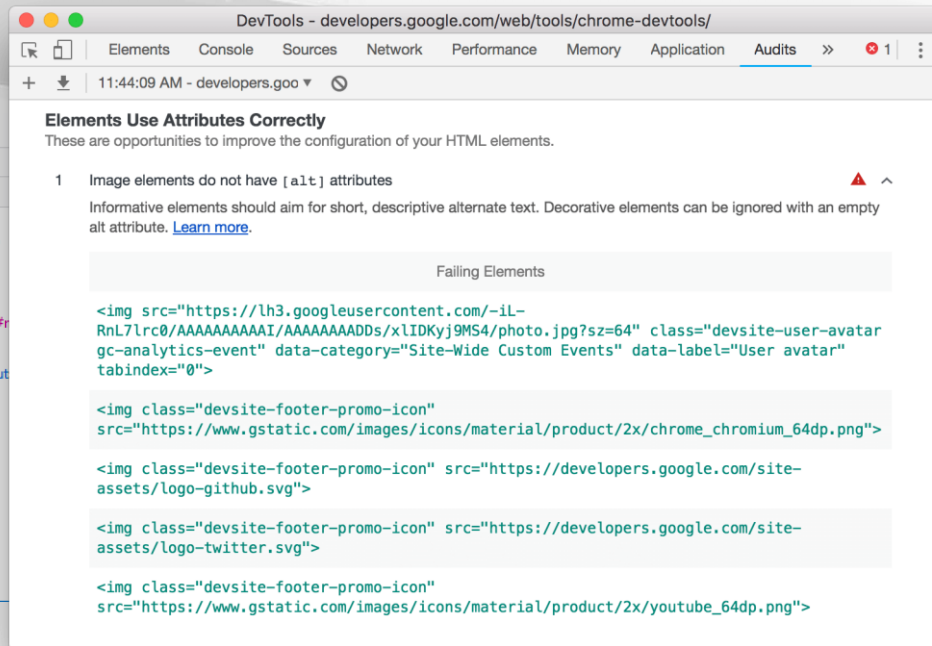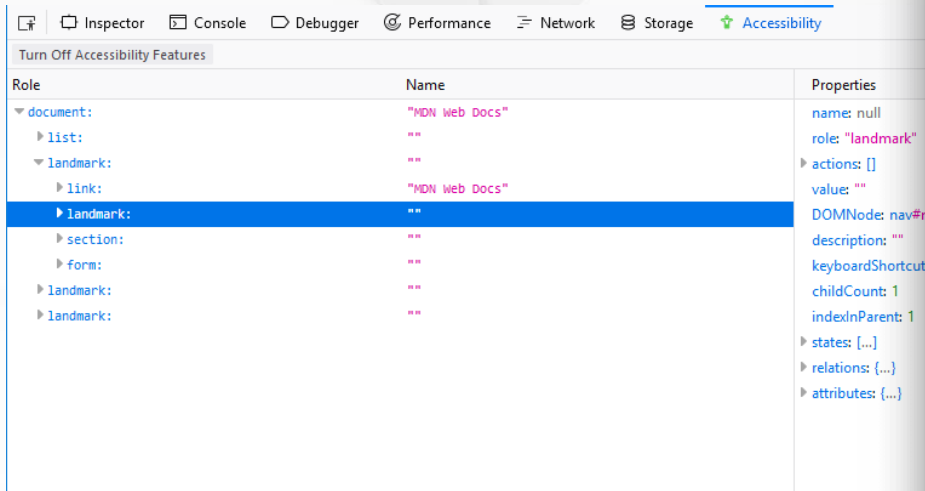
- **IndexedDB**

- **Local Storage**

Storage Inspector

Accessibility inspector

Provides a means to access the page's accessibility tree, allowing you to check what's missing or otherwise needs attention

Summary

Q&A

Web Programming

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