







# **Web Programming**

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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

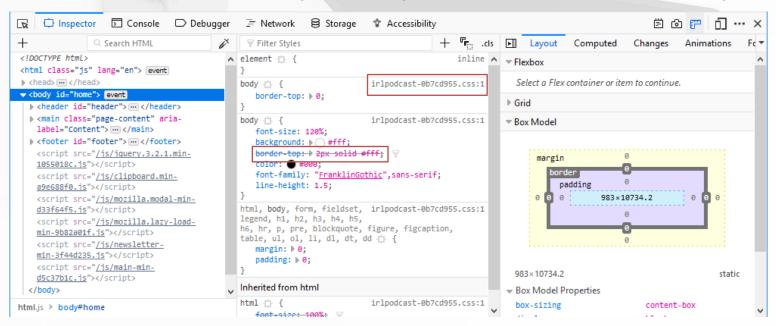
Right-click an item on a webpage, and choose Inspect Element from the context menu

### The Core Tools

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

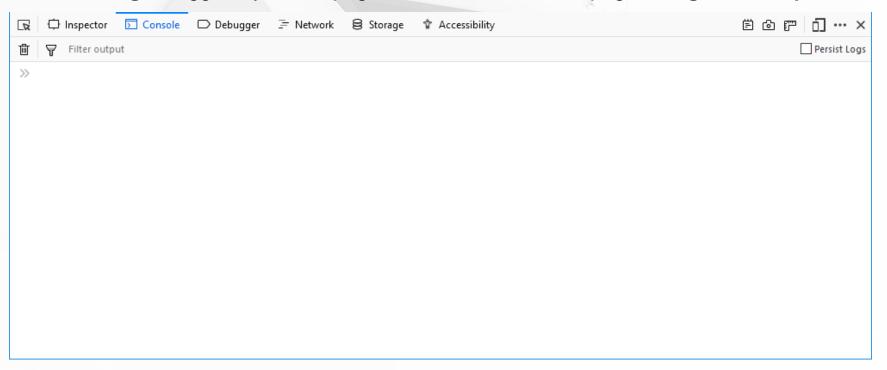
### Page Inspector

- View and edit page content and layout
- Visualize many aspects of the page including the box model, animations, and grid layouts



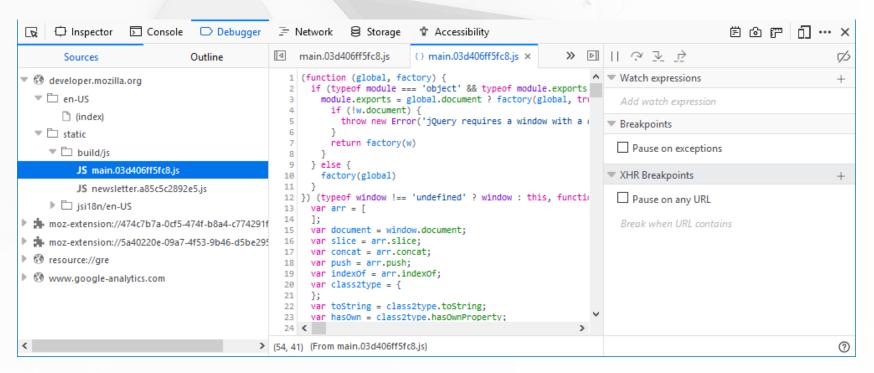
### Web Console

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



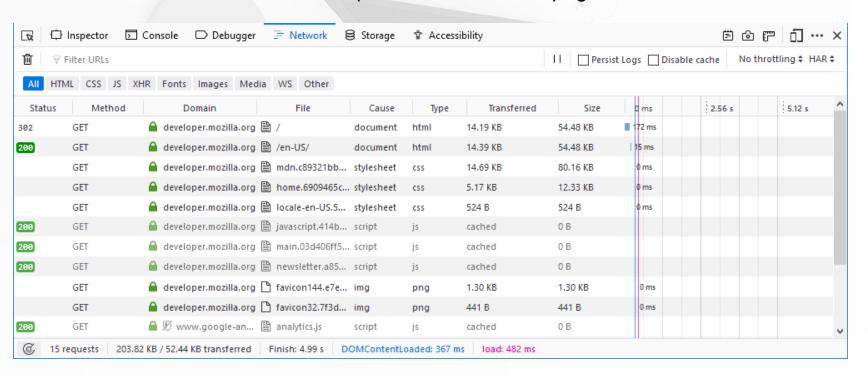
## JavaScript Debugger

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



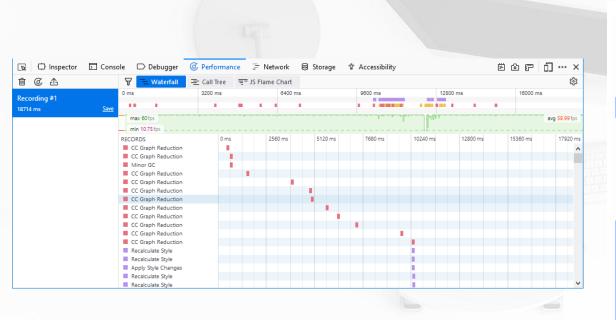
#### **Network Monitor**

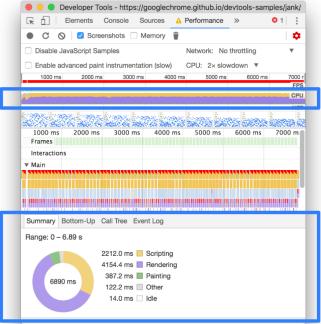
#### See the network requests made when a page is loaded



#### Performance Tools

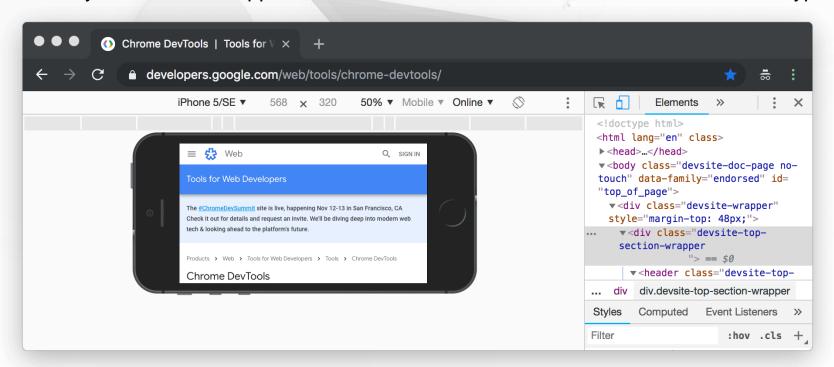
Analyze your site's general responsiveness, JavaScript, and layout performance





### Responsive Design Mode

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

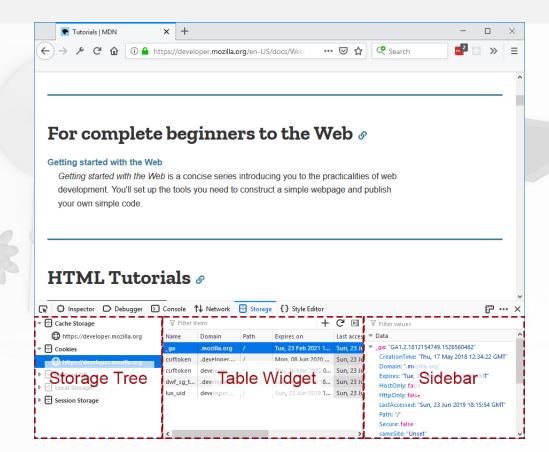


### Storage Inspector

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

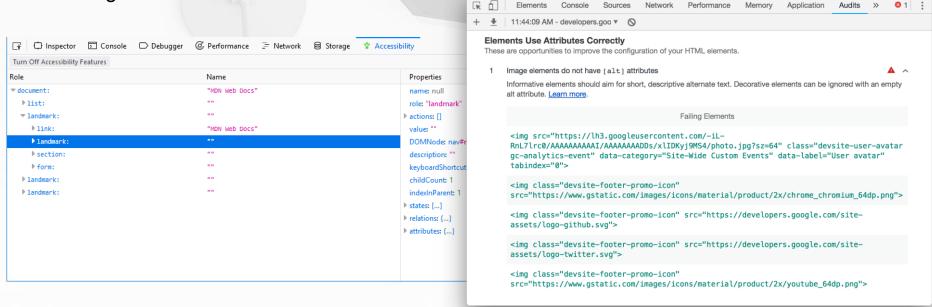


### Accessibility inspector

Provides a means to access the page's accessibility tree, allowing you to check what's

DevTools - developers.google.com/web/tools/chrome-devtools/

missing or otherwise needs attention









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