THE DOM & DEV TOOLS.

Poggie

01.30.2024

// TODO.

Quick Recap

The DOM

More on Dev Tools

CSS Exercises

Recap.

Block-level vs inline elements

Inline vs internal vs external styling

Global vs id vs class selectors

THE DOM.

HTML.

HTML is a markup language used to structure content on the web.

DOM.

When the browser parses the HTML, the browser creates a tree of objects. This is what is known as the DOM.

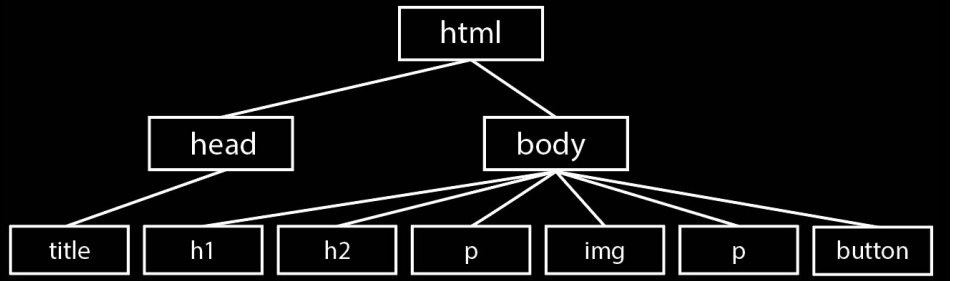
HTML.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
</html>
```

DOM.

html
  head
    title
  body
    h1
    p
    Script



DOM.

The DOM represents the live, interactive version of the document that can be manipulated through scripts using languages like JavaScript.

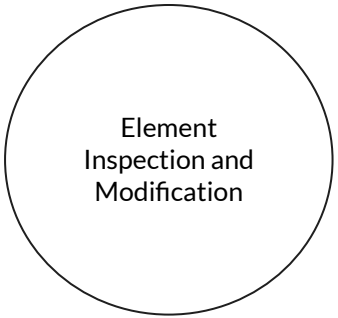
HTML provides the initial structure, however the DOM can be modified based on user interactions.

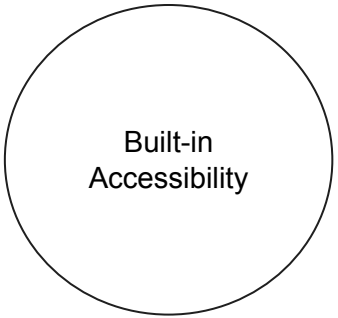

const AppWithProviders = () => (
<ThemeContext.Provider>
<UserContext.Provider>
<SomeOtherContext.Provider>
<YetAnotherContext.Provider>
<OneMoreContext.Provider>
<AndOneMoreContext.Provider>
<AndSoOnContext.Provider>
<AndSoForthContext.Provider>
<App/>
</AndSoForthContext.Provider>
</AndSoOnContext.Provider>
</AndOneMoreContext.Provider>
</OneMoreContext.Provider>
</YetAnotherContext.Provider>
</SomeOtherContext.Provider>
</UserContext.Provider>
</ThemeContext.Provider>
)

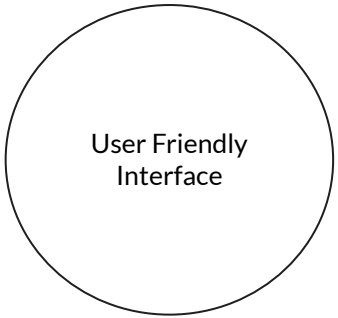

AppWithProviders = () => (
meContext.Provider>
<UserContext.Provider>
<SomeOtherConte ovider>
<YetAnotherCo .Provider>
<OneMoreContext.Provider>
<A neMoreContext.Prov
oOnContext.Provid
<AndSoForthContext.Pro
<App/>
</AndSo Context.P
</AndSoOn ext.Prov
</AndOneMoreContext.Provider>
</OneMoreContext.Provi r>
</YetAnotherContext.Pr
</SomeOtherContext.Provi r>
</Us ext.Provider>
</Theme ext.Provider>
)

THE DOM & DEV TOOLS.

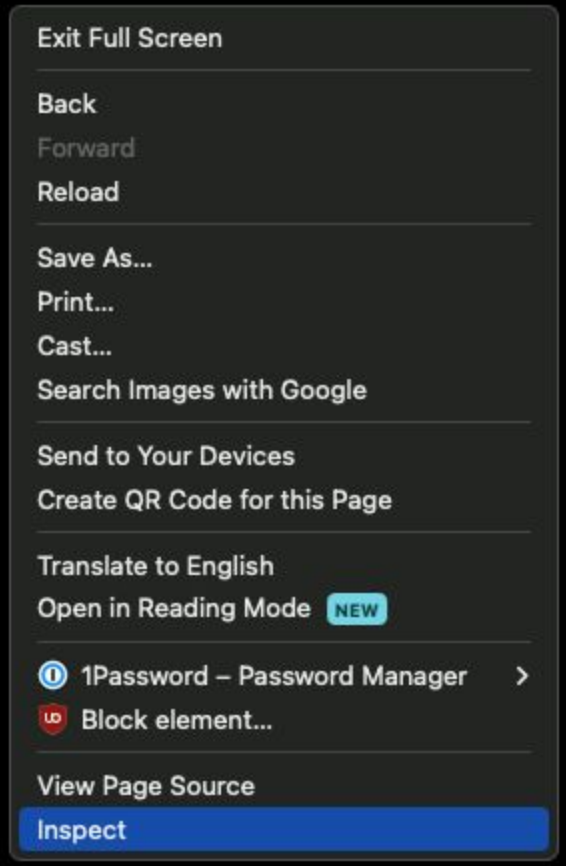
Why Chrome Dev Tools?







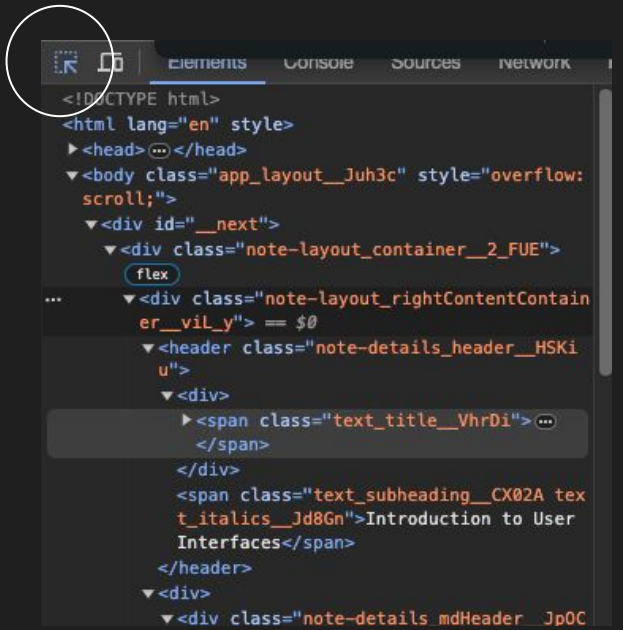
Inspecting a node.


Exit Full Screen
Back
Forward
Reload
Save As...
Print...
Cast...
Search Images with Google
Send to Your Devices
Create QR Code for this Page
Translate to English
Open in Reading Mode
NEW
1Password – Password Manager
Block element...
View Page Source
Inspect

Inspecting a node.

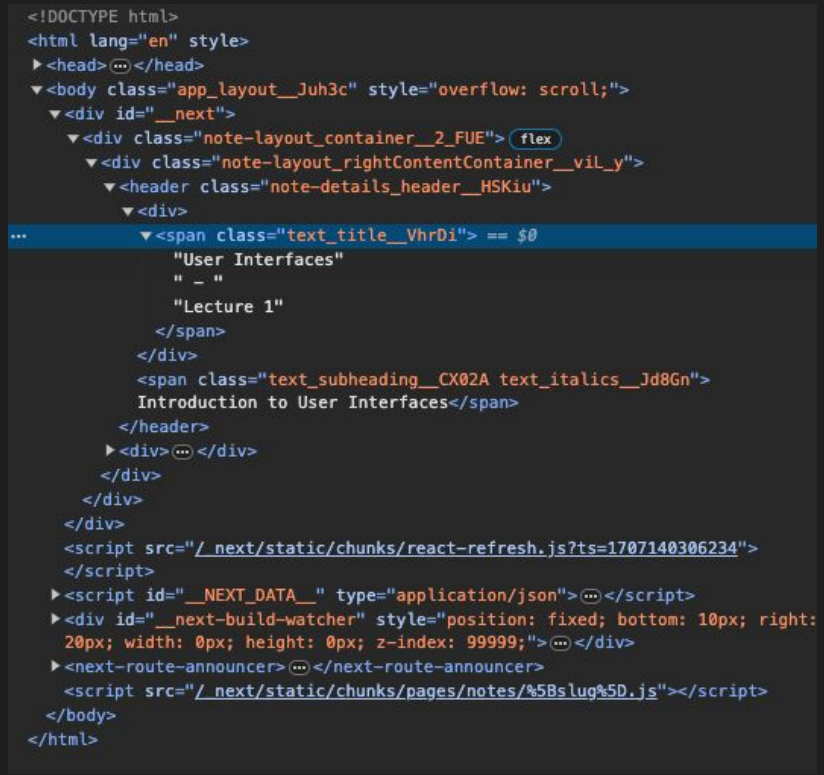
Click the blue-highlighted icon and hover over any element

Selecting an element will reveal the specific styles for that element.



Inspecting a node.

Notice how the node we are inspecting is highlighted in the DOM tree.

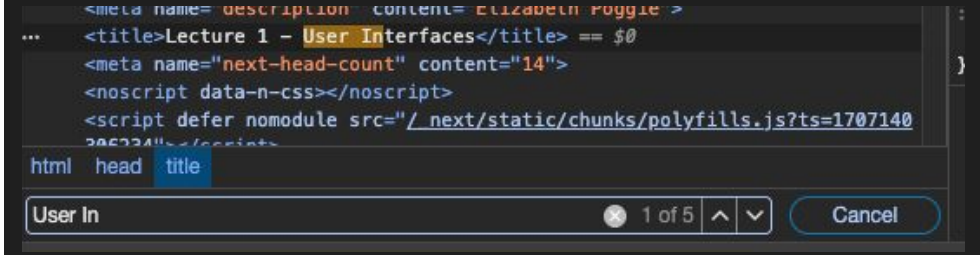


Searching for a node.

Focus your cursor on the Elements panel.

Press Control+F or Command+F (Mac).

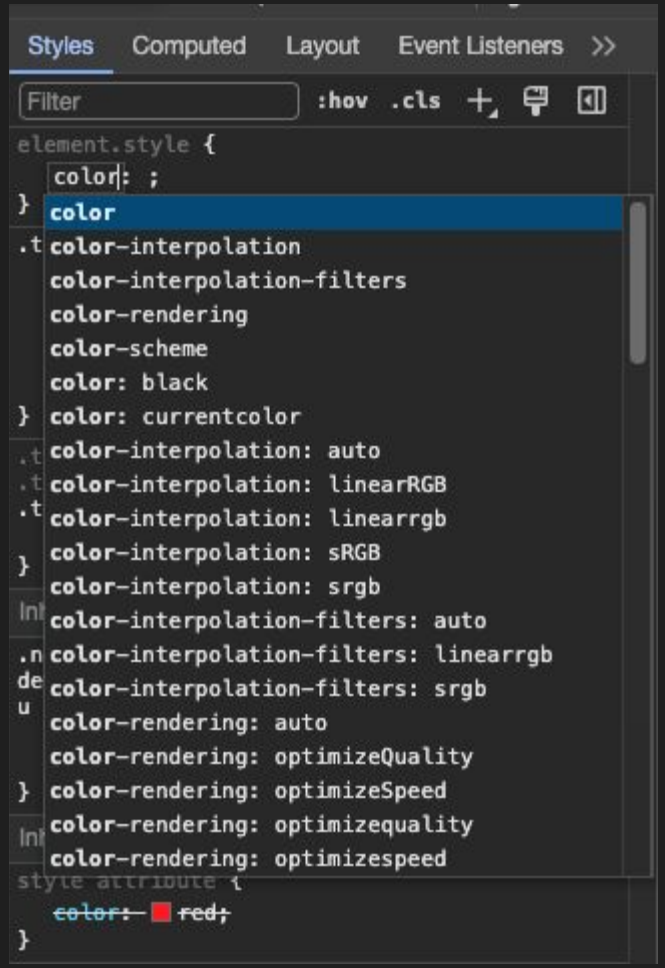
The Search bar opens at the bottom of the DOM Tree.



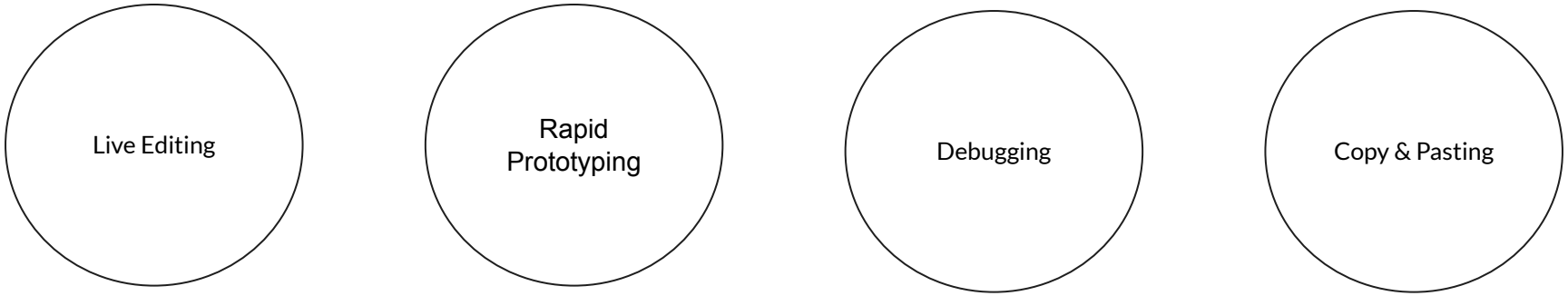
Testing styles.

You can experiment with styles directly in the page.

Won’t affect source code



Why edit directly in Dev Tools?



Forcing element state.

Why?

Elements often have styles associated with “pseudo-classes”.

Pseudo-classes are selectors that allow you to style elements based on their state, responding to user interactions and specific conditions.

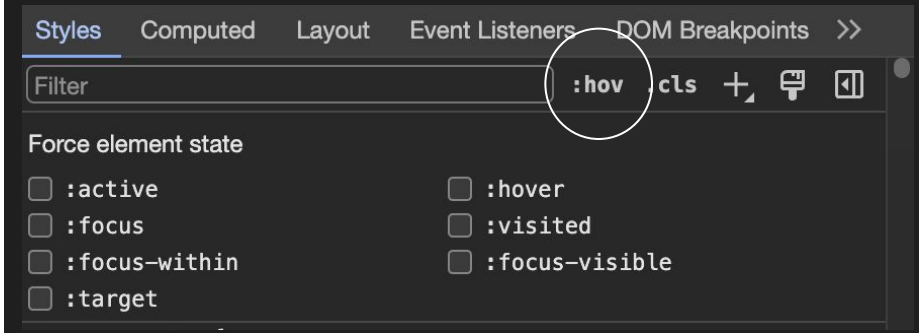
Forcing these states in developer tools allows you to inspect and test the styles applied to an element when it is in a particular state.

Styles.

Open up inspector and double-click the element you want to modify

In the “styles” view, select the :hov to open up the “Force element state” panel

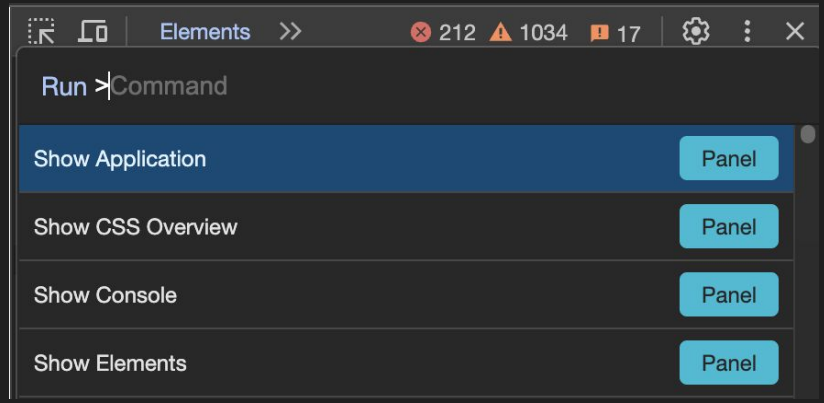
Select the state you want to force on the element



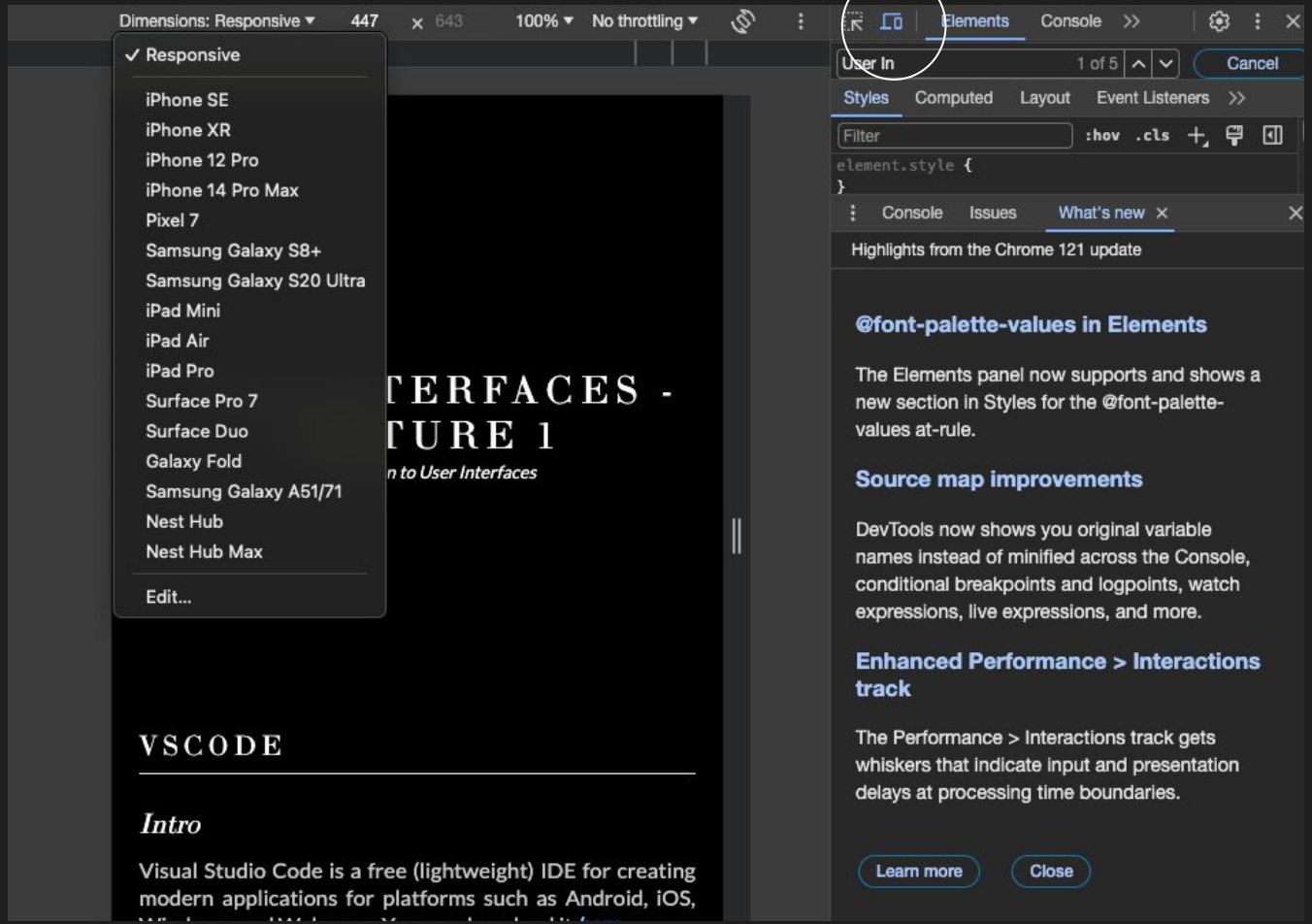
Command pallet.

Press Control+Shift+P or Command+Shift+P (Mac) to open the Command menu.

We can directly force the state of an element from here



Intro to responsive design.


Dimensions: Responsive
447
643
100%
No throttling
Responsive
iPhone SE
iPhone XR
iPhone 12 Pro
iPhone 14 Pro Max
Pixel 7
Samsung Galaxy S8+
Samsung Galaxy S20 Ultra
iPad Mini
iPad Air
iPad Pro
Surface Pro 7
Surface Duo
Galaxy Fold
Samsung Galaxy A51/71
Nest Hub
Nest Hub Max
Edit...
TERFACES -
TURE 1
n to User Interfaces
VSCODE
Intro
Visual Studio Code is a free (lightweight) IDE for creating modern applications for platforms such as Android, iOS,
Elements
Console
User In
1 of 5
Cancel
Styles
Computed
Layout
Event Listeners
Filter
:hov
.cls
element.style {
}
Console
Issues
What's new
Highlights from the Chrome 121 update
@font-palette-values in Elements
The Elements panel now supports and shows a new section in Styles for the @font-palette-values at-rule.
Source map improvements
DevTools now shows you original variable names instead of minified across the Console, conditional breakpoints and logpoints, watch expressions, live expressions, and more.
Enhanced Performance > Interactions track
The Performance > Interactions track gets whiskers that indicate input and presentation delays at processing time boundaries.
Learn more
Close

EXERCISES.