

Beyond the Browser: A Look at Google I/O 2023's Web Enhancements



About Me



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Baseline

Web Platform Baseline gives you clear **Web Platform Baseline** gives you clear information about which web platform features are safe to use in your projects today. Information about which web platform features are safe to use in your projects today.

The Chrome team is collaborating with other browser engines and the web community to bring more clarity. This includes our work on projects like **Interop 2023** which helps to improve interoperability of a set of key features.



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Baseline features you can use today

- The `dialog` element.
- Individual CSS transform properties.
- New Viewport units.
- Deep copy in JavaScript.
- The `:focus-visible` pseudo-class.



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The `dialog` element

```
Greeting.jsx

<dialog id="d">
  <form method="dialog">
    <p>Hi, I'm a dialog.</p>
    <button>ok</button>
  </form>
</dialog>

<button onclick="d.showModal()">
  Open Dialog
</button>
```



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Frontend Devs be like



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Why we use **dialog** then?

As a native HTML element, features like

- **focus management**,
- **tab tracking**, and
- **keeping the stacking context**

are built in.

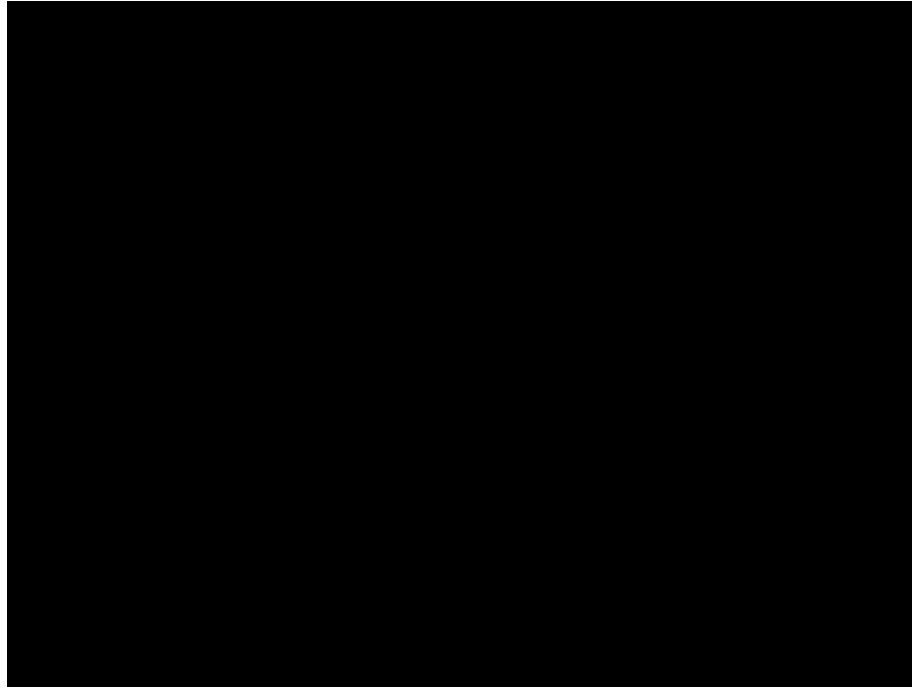


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What you can build using dialog?



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Individual CSS transform properties

> This comes in handy when you are writing complex keyframe animations

```
@keyframes anim {  
  0% { transform: translateX (0%) ; }  
  10% { transform: translate(10%) rotate (72deg) scale (1.2); }  
  25% { transform: translate(25%) rotate (180deg) scale (1.2); }  
  85% { transform: translate(85%) rotate (180deg) scale (1.2); }  
  90% { transform: translate(90%) rotate (240deg) scale (1.2); }  
  100% { transform: translate(100%) rotate (360deg) ;  
    scale(1.5); }  
}
```

```
@keyframes anim {  
  0% { translate: 0% 0; }  
  100% { translate: 100% 0; }  
  0% { scale: 1; }  
  10%, 90% { scale: 1.2; }  
  100% { scale: 1.5; }  
  0% { rotate: 0deg; }  
  25%, 85% { rotate: 180deg; }  
  100% { rotate: 360deg; }  
}
```



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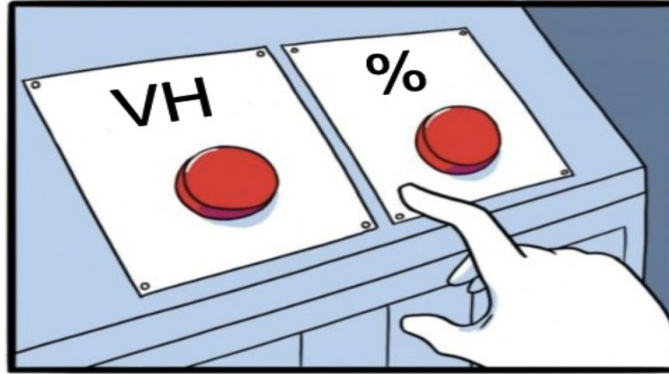


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Setting height of the page



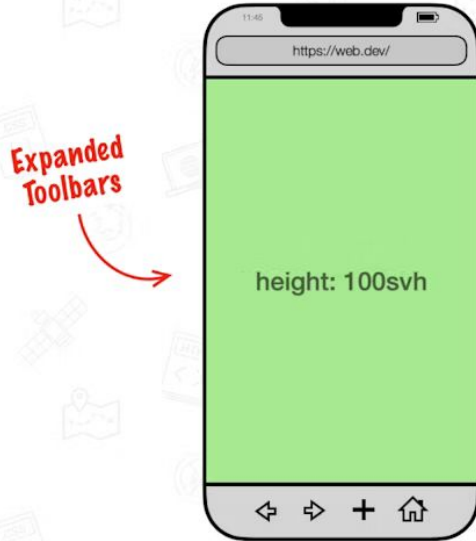
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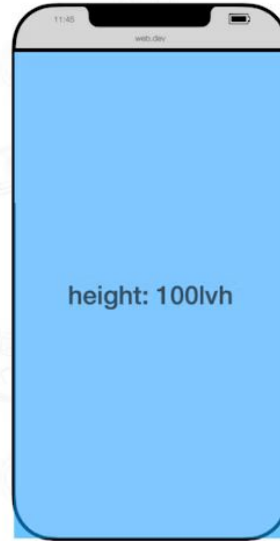
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New Viewport Units

- svh
- lvh



The small viewport



The large viewport



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Deep Copy in JavaScript



Greeting.jsx

```
const original = {id: 0, prop: {name: "Tom"}}

/* Old hack */
const deepCopy = JSON.parse(JSON.stringify(original));

/* New way */
const deepCopy = structuredClone(original);
```



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Deep Copy be like

`structuredClone()`



`JSON.parse()`




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The :focus-visible pseudo-class

We all are familiar with that **"focus ring"** that shows up when you are navigating a page with a **keyboard** or clicking on **input elements**.



```
/* focus with tab key */
:focus-visible {
  outline: 5px solid pink;
}

/* mouse click */
:focus:not(:focus-visible) {
  outline: none;
}
```



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Frontend tech changes a lot



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Q&A

Thank You

For being such an amazing audience



Scan the QR & lets connect!

