

Chrome File Edit View History Bookmarks People Tab Window Help

Akshay Saini x +

127.0.0.1:5500

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Namaste 🙏 JavaScript

Paused in debugger

Elements Console Sources Network

(index) index.js x

1

Set up the global execution context and memory space.

{}

Coverage: n/a

Paused on breakpoint

Call Stack

(anonymous) index.js:1

Breakpoints

☒ index.js:1

XHR/fetch Breakpoints

DOM Breakpoints


Scope Watch

Global Window

index.js — helloworld

JS index.js x index.html

```
js > JS index.js
1
```



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```
> window
< ▶ Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
>
```

A window is a Global object with a lot of functions and methods.
(created by JavaScript engine and into the global space)

index.js — helloworld

JS index.js index.html

```
js > JS index.js
1
```



Chrome browser window showing the page **Namaste 🙏 JavaScript**. The address bar shows `127.0.0.1:5500`. The browser's developer tools are open, displaying the **Console** tab. The console shows the `window` object, with a tooltip for the `alert` property.

```
> window
< Window {window: Window, self: Window, document: document, name: "", location: Location, ...} ⓘ
  ▶ alert: f alert()
  ▶ atob: f atob()
  ▶ blur: f blur function alert() { [native code] }
  ▶ btoa: f btoa()
  ▶ caches: CacheStorage {}
  ▶ cancelAnimationFrame: f cancelAnimationFrame()
  ▶ cancelIdleCallback: f cancelIdleCallback()
  ▶ captureEvents: f captureEvents()
  ▶ chrome: {loadTimes: f, csi: f}
  ▶ clearInterval: f clearInterval()
  ▶ clearTimeout: f clearTimeout()
  ▶ clientInformation: Navigator {vendorSub: "", productSub: "200301...
  ▶ close: f close()
    closed: false
  ▶ confirm: f confirm()
  ▶ createImageBitmap: f createImageBitmap()
  ▶ crypto: Crypto {subtle: SubtleCrypto}
```

VS Code editor window showing the `index.js` file. The file content is:

```
js > JS index.js
1
```

A video overlay of a man with dark hair and a beard, wearing an orange shirt, is positioned in the bottom right corner of the editor window. He is gesturing with his right hand. In the bottom right corner of the entire image, there is a red YouTube 'SUBSCRIBE' button.

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```
> window
< ▶ Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
> this
< ▶ Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
> |
```

This variable is declared into GEC and points to the global-level declaration

index.js — helloworld

JS index.js ✕ <> index.html

```
js > JS index.js
1
```



SHORTEST JS Program 🔥 window & this keyword | Namaste JavaScript Ep. 5

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Press **esc** to exit full screen

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Elements Console Sources Network >> ⚙️ ⋮ ✕

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```
> window
< ▶ Window {window: Window, self: Window, document: document, name:
  ▶ "", location: Location, ...}

> this
< ▶ Window {window: Window, self: Window, document: document, name:
  ▶ "", location: Location, ...}


> |
```

Browser - window
node - something else

index.js — helloworld

JS index.js ✕ <> index.html

```
js > JS index.js
1
```



Chrome File Edit View History Bookmarks People Tab Window Help

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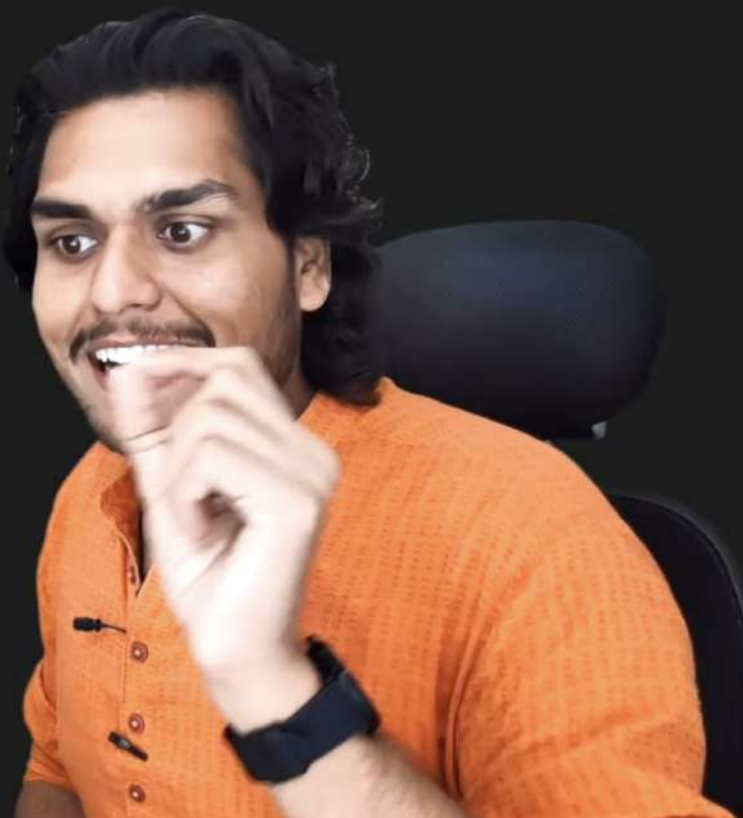
top Filter Custom levels ⚙️

```
> window
< ▶ Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
> this
< ▶ Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
> this === window
< true
> |
```

index.js — helloworld

JS index.js ✕ <> index.html

```
js > JS index.js
1
```



SHORTEST JS Program 🔥 window & this keyword | Namaste JavaScript Ep. 5

Chrome browser window showing the "Namaste JavaScript" website. The address bar displays "127.0.0.1:5500". The page title is "Namaste 🙏 JavaScript". The browser's developer tools are open, showing the Console tab. The console output displays the global object `window` and its properties, including `a: 10` and `b: f b()`. A red error message is visible: `x is not present in the global-space.`

```
> window
Window {window: Window, self: Window, document: document, name:
  "", location: Location, ...}
  a: 10
  alert: f alert()
  atob: f atob()
  b: f b()
  blur: f blur()
  btoa: f btoa()
  caches: CacheStorage {}
  cancelAnimationFrame: f cancelAnimationFrame()
  cancelIdleCallback: f cancelIdleCallback()
  captureEvents: f captureEvents()
  chrome: {loadTimes: f, csi: f}
  clearInterval: f clearInterval()
  clearTimeout: f clearTimeout()
  clientInformation: Navigator {vendorSub: "", productSub: "200301...
  close: f close()
  closed: false
  confirm: f confirm()
```

VS Code editor window showing the `index.js` file. The code defines a variable `a` and a function `b` that declares a local variable `x`.

```
js > JS index.js
1
2   var a =10;
3   function b() {
4       var x =10;
5   }
```


Namaste 🙏 JavaScript

Press `esc` to exit full screen

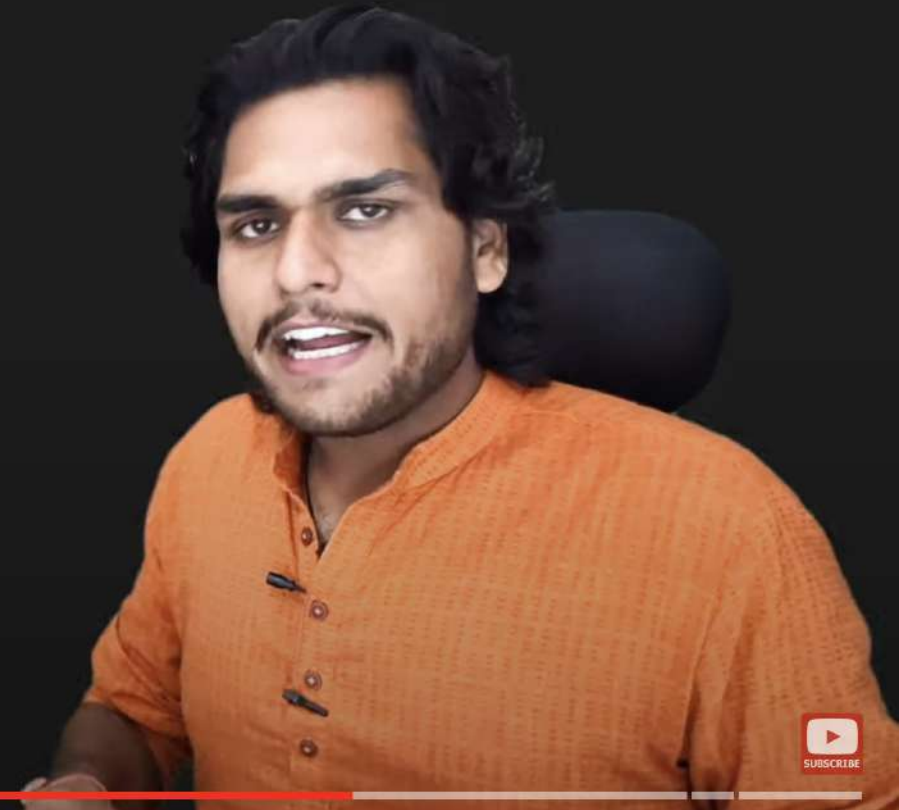
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10 index.js:6

>

```
1 var a =10;
2
3 function b() {
4   var x =10;
5 }
6 console.log(window.a);
7
```





Namaste 🙏 JavaScript

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10 index.js:6
10 assumes in global space by default if we don't write window. index.js:7
>

```
1  
2 var a =10;  
3 function b() {  
4   var x =10;  
5 }  
6 console.log(window.a);  
7 console.log(a);
```



Namaste 🙏 JavaScript

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10	index.js:6
10	index.js:7
✖ ▶ Uncaught ReferenceError: x is not defined at index.js:8	
>	

```
1
2 var a =10;
3 function b() {
4   |   var x =10;
5 }
6 console.log(window.a);
7 console.log(a);
8 console.log(x);
```



Namaste 🙏 JavaScript

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10	index.js:6
10	index.js:7
10	index.js:8

> |

all three of these points to the same location i.e global memory block.

```
1
2 var a =10;
3 function b() {
4   | var x =10;
5 }
6 console.log(window.a);
7 console.log(a);
8 console.log(this.a);
```

