



# Web Workers

Service Workers



quem sou eu\_



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@khaosdoctor



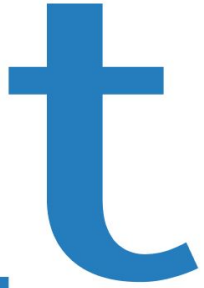
lsantos.dev



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@\_staticvoid

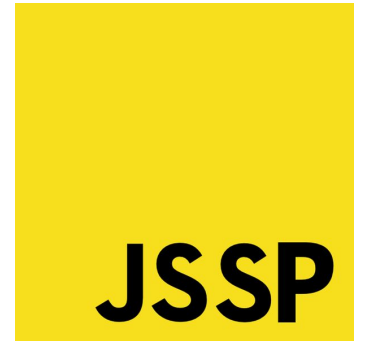
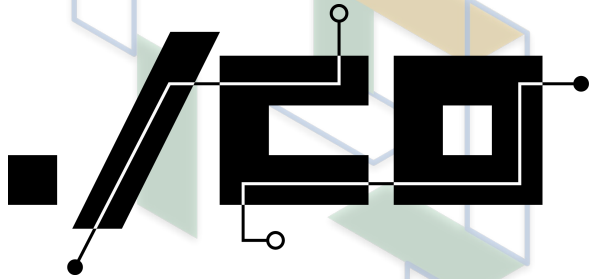


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trainingcenter.io



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# ***SERVERLESS*** ***WEEK***

[slsweek.netlify.com](https://slsweek.netlify.com)





# Web Workers





**O JavaScript é assíncrono**



The background features a collection of abstract, three-dimensional geometric shapes. These shapes are rendered in a dark blue color, with some faces highlighted in teal, brown, and red. The shapes are scattered across the left and center of the frame, creating a sense of depth and movement. The overall aesthetic is modern and technical.

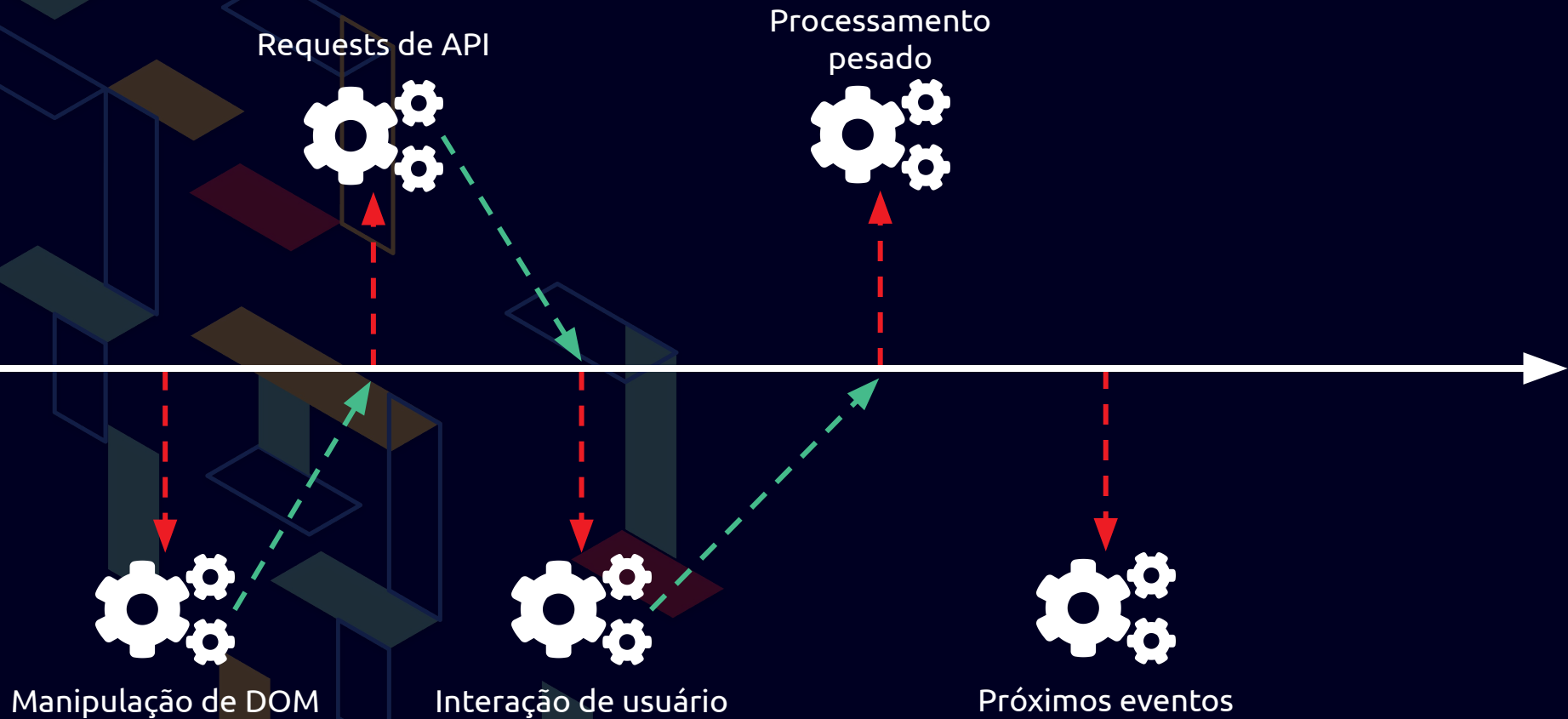
**Em uma thread...**



# Antes dos Web Workers







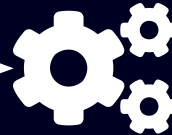
# Depois dos Web Workers



Requests de API



Processamento pesado



Manipulação de DOM



Interação de usuário



Próximos eventos



**Web workers nos  
permitem criar threads  
paralelas no JavaScript**



# Arquivos externos



# Comunicação por mensagens





```
1 // index.html
2 const worker = new Worker('./worker.js')
3 worker.onmessage = (message) => {
4   console.log(message.data)
5   worker.terminate()
6 }
7
8 worker.postMessage(getTerms())
```





```
1 // worker.js
2 self.onmessage = (message) => {
3   self.postMessage('content')
4   close()
5 }
```







**demo**



<https://lsantos-web-workers.now.sh/>



- dedicated workers
- shared workers





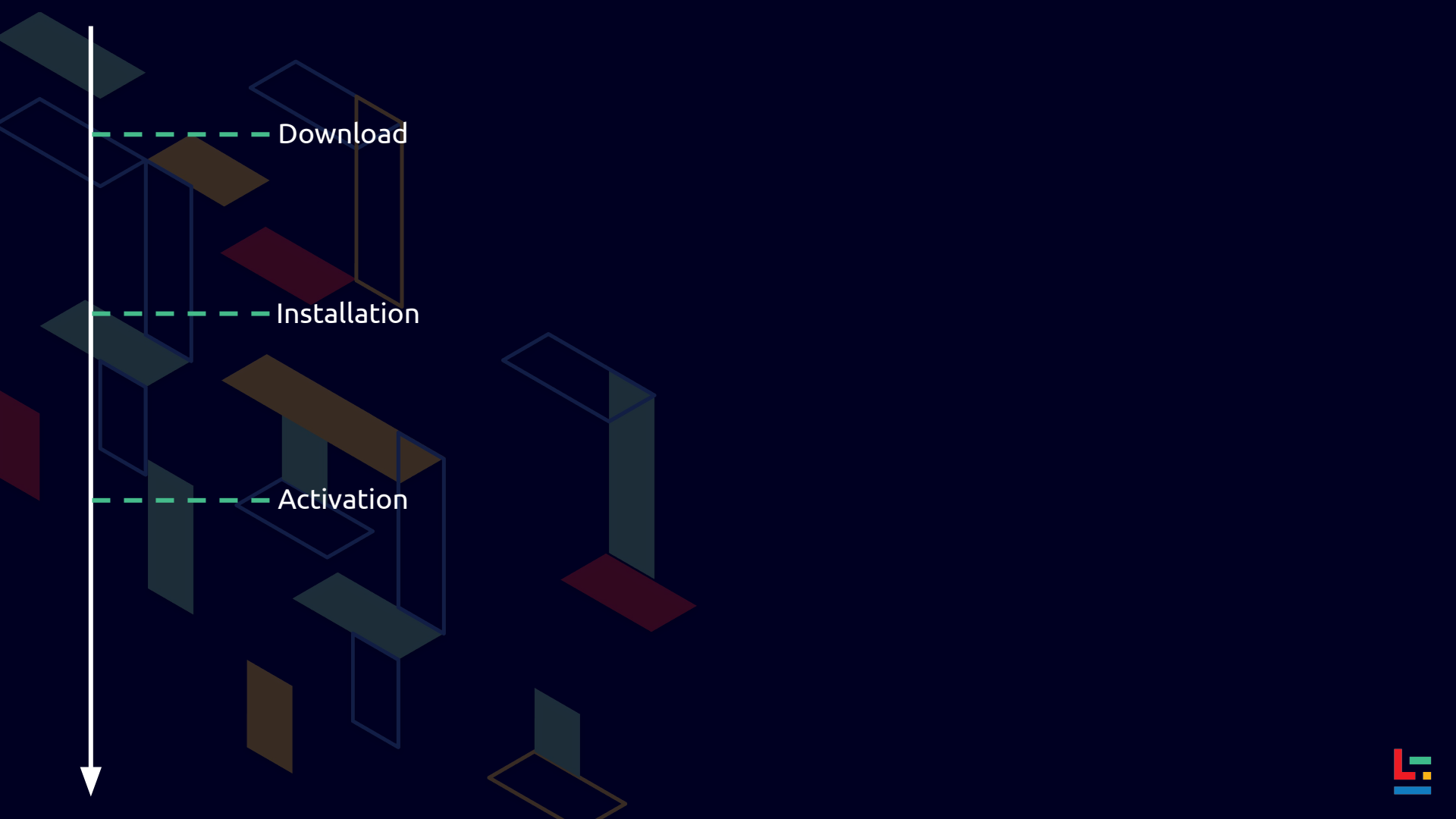
# Service Workers





# Ciclo de vida





Download

Installation

Activation



The background features a collection of abstract, three-dimensional geometric shapes. These shapes are rendered in a dark blue color, with some faces highlighted in teal, brown, and red. The shapes are scattered across the left and center of the frame, creating a sense of depth and movement. The word "update" is centered in the middle of the image in a white, sans-serif font.

**update**





```
1 if ('serviceWorker' in navigator) {
2   window.addEventListener('load', function() {
3     navigator.serviceWorker.register('/sw.js').then(function(registration) {
4       // Registration was successful
5       console.log('ServiceWorker registration successful');
6     }, function(err) {
7       // Registration failed
8       console.log('ServiceWorker registration failed: ', err);
9     });
10  });
11 }
```

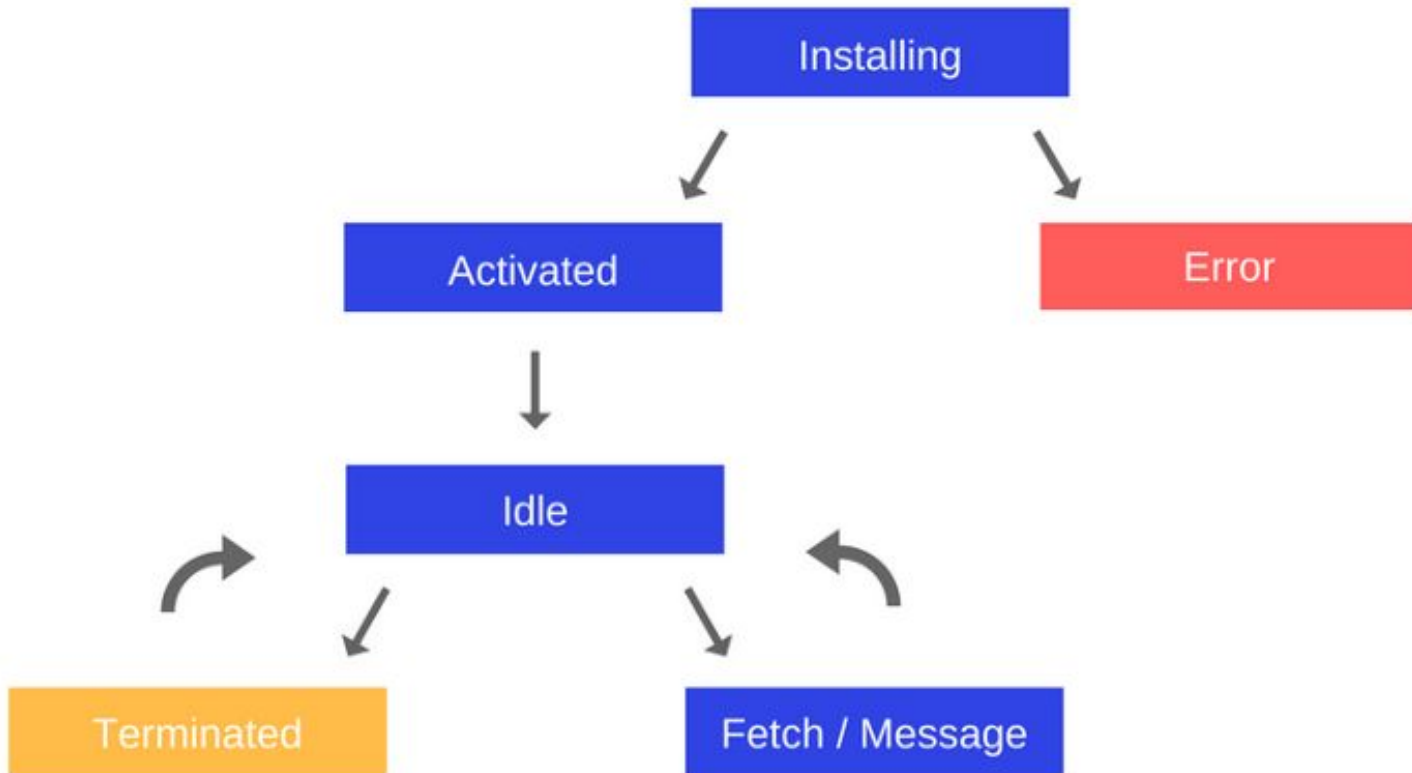






# Escopo





# Principais **USOS**



# Gerenciamento de cache



# Push Notifications



The background features an abstract composition of various geometric shapes, including rectangles and parallelograms, in shades of teal, brown, and red. Some shapes are solid, while others are outlined in a light blue or yellow color. They are arranged in a scattered, overlapping pattern across the left and center of the frame.

# PWAs





**demo**



<https://lsantos-service-workers.now.sh/>





# referências

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- <https://pt.stackoverflow.com/questions/46926/o-que-s%C3%A3o-web-workers-e-como-utiliz%C3%A1-los>
- [https://www.w3schools.com/html/html5\\_webworkers.asp](https://www.w3schools.com/html/html5_webworkers.asp)
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- <https://blog.sessionstack.com/how-javascript-works-the-building-blocks-of-web-workers-5-cases-when-you-should-use-them-a547c0757f6a>
- <https://github.com/khaosdoctor/web-workers-and-service-workers>
- <https://serviceworke.rs/>
- <https://blog.sessionstack.com/how-javascript-works-service-workers-their-life-cycle-and-use-cases-52b19ad98b58>




**obrigado\_**

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