



Execution Context

O Execution Context é o ambiente onde o código é executado, sendo composto pelo **variable object, scope chain e this**

# Execution Context Stack

Active Execution Context

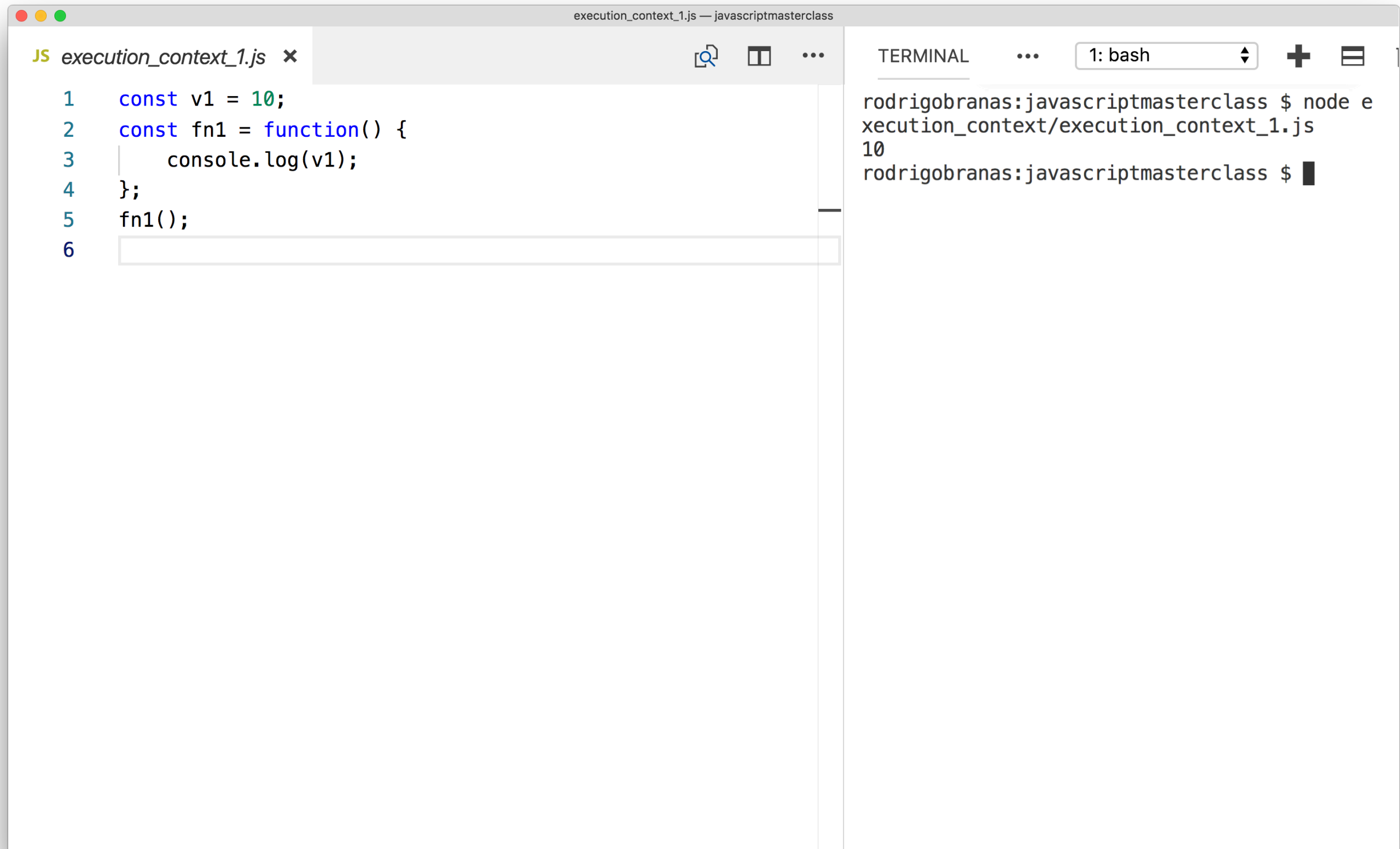
...

Execution Context 2

Execution Context 1

Global Execution Context

Dentro de uma função é possível acessar  
variáveis existentes fora dela, por meio  
da scope chain



execution\_context\_2.js — javascriptmasterclass

JS execution\_context\_2.js x

1const v1 = 10;

2const fn1 = function() {

3 const fn2 = function() {

4 console.log(v1);

5 }

6 fn2();

7};

8fn1();

9

TERMINAL

1: bash

rodrigobranas:javascriptmasterclass \$ node execution\_context/execution\_context\_2.js

10

rodrigobranas:javascriptmasterclass \$

execution\_context\_3.js — javascriptmasterclass

JS execution\_context\_3.js ✕

```
1  const v1 = 10;
2  const fn1 = function() {
3      const v1 = 100;
4      const fn2 = function() {
5          console.log(v1);
6      }
7      fn2();
8  };
9  fn1();
10
```

TERMINAL

1: bash

```
rodrigobranas:javascriptmasterclass $ node e
xecution_context/execution_context_3.js
100
rodrigobranas:javascriptmasterclass $
```

JS execution\_context\_4.js ✕



TERMINAL



1: bash



```
1  const v1 = 10;
2  const fn1 = function() {
3      const v1 = 100;
4      const fn2 = function() {
5          const v1 = 1000;
6          console.log(v1);
7      }
8      fn2();
9  };
10 fn1();
11
```

```
rodrigobranas:javascriptmasterclass $ node e
xecution_context/execution_context_4.js
1000
rodrigobranas:javascriptmasterclass $
```



Não é possível acessar de fora uma variável  
que foi declarada dentro de uma função

JS execution\_context\_5.js x



TERMINAL

...

1: bash



```
1  const v1 = 10;
2  const fn1 = function() {
3      const v1 = 100;
4      const fn2 = function() {
5          const v1 = 1000;
6          console.log(v1);
7          const v2 = 10000;
8          console.log(v2);
9      }
10     fn2();
11 };
12 fn1();
13 console.log(v2);
14
```

```
rodrigobranas:javascriptmasterclass $ node e
xecution_context/execution_context_5.js
1000
10000
/Users/rodrigobranas/development/workspace/j
avascriptmasterclass/execution_context/execu
tion_context_5.js:13
console.log(v2);
      ^
```

ReferenceError: v2 is not defined

```
    at Object.<anonymous> (/Users/rodrigobra
nas/development/workspace/javascriptmastercl
ass/execution_context/execution_context_5.js
:13:13)
    at Module._compile (module.js:643:30)
    at Object.Module._extensions..js (module
.js:654:10)
    at Module.load (module.js:556:32)
    at tryModuleLoad (module.js:499:12)
    at Function.Module._load (module.js:491:
3)
    at Function.Module.runMain (module.js:68
4:10)
    at startup (bootstrap_node.js:187:16)
    at bootstrap_node.js:608:3
rodrigobranas:javascriptmasterclass $
```

Toda função tem uma variável **this** que contém a referência para o objeto responsável pela sua invocação

execution\_context\_6.js — javascriptmasterclass

JS execution\_context\_6.js x

1const obj1 = {  
2 p1: 10,  
3 getP1: function() {  
4 return this.p1;  
5 }  
6};  
7console.log(obj1.getP1());  
8

TERMINAL

1: bash

rodrigobranas:javascriptmasterclass \$ node execution\_context/execution\_context\_6.js  
10  
rodrigobranas:javascriptmasterclass \$

execution\_context\_7.js — javascriptmasterclass

JS execution\_context\_7.js ✕

```
1  const obj1 = {
2      p1: 10,
3      getP1: function() {
4          function fn1() {
5              return this.p1;
6          }
7          return fn1();
8      }
9  };
10 console.log(obj1.getP1());
11
```

TERMINAL

...

1: bash

+

```
rodrigobranas:javascriptmasterclass $ node e
xecution_context/execution_context_7.js
undefined
rodrigobranas:javascriptmasterclass $
```

JS execution\_context\_8.js x



TERMINAL



1: bash



```
1  const obj1 = {
2    p1: 10,
3    getP1: function() {
4      const that = this;
5      function fn1() {
6        return that.p1;
7      }
8      return fn1();
9    }
10 };
11 console.log(obj1.getP1());
12
```

```
rodrigobranas:javascriptmasterclass $ node e
xecution_context/execution_context_8.js
10
rodrigobranas:javascriptmasterclass $
```

execution\_context\_9.js — javascriptmasterclass

JS execution\_context\_9.js

```
1  const obj1 = {
2    p1: 10,
3    getP1: function() {
4      const fn1 = () => {
5        return this.p1;
6      }
7      return fn1();
8    }
9  };
10 console.log(obj1.getP1());
11
```

TERMINAL

1: bash

rodrigobranas:javascriptmasterclass \$ node execution\_context/execution\_context\_9.js  
10  
rodrigobranas:javascriptmasterclass \$