

**CTeSP** 

CURSOS TÉCNICOS SUPERIORES PROFISSIONAIS

Tecnologias e Programação de Sistemas de Informação

## Introdução

Desenvolvimento Web - Back-End | David Jardim

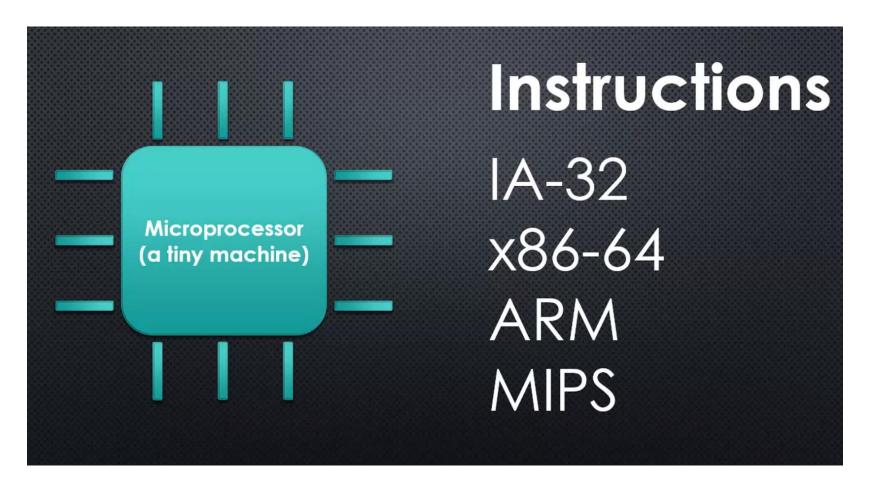
Cofinanciado por:











```
push rbp
000018A45438100
                       55
                                        REX.W movq rbp,rsp
                        4889e5
0000018A45438101
                     1
                       56
                                        push rsi
0000018A45438104
                     4
                                        push rdi
0000018A45438105
                     5 57
                                        push [r13-0x58]
                       41ff75a8
0000018A45438106
0000018A4543810A
                    10 56
                                        push rsi
                        49baf9552c7e8f010000 REX.W movq r10,
0000018A4543810B
                    11
0000018F7E2C55F9
                        object: 0000018F7E2C55F9
0000018A45438115
                    21
                        4152
                                        push r10
                                        push 0x0
0000018A45438117
                    23
                        6a00
                        b803000000
                                        movl rax,00000000000000
0000018A45438119
                    25
```

evel of Abstraction

## Javascript C/C++ **Assembly Language** Machine Language Microprocessor





"Node.js® is a JavaScript runtime built on <u>Chrome's V8 JavaScript engine</u>. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, <u>npm</u>, is the largest ecosystem of open source libraries in the world."





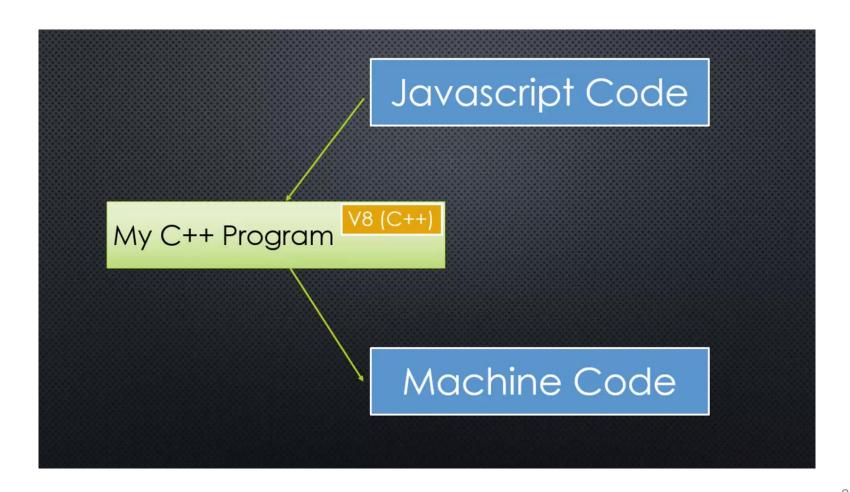


Qual a linguagem de programação na qual o Node foi desenvolvido? E porquê?



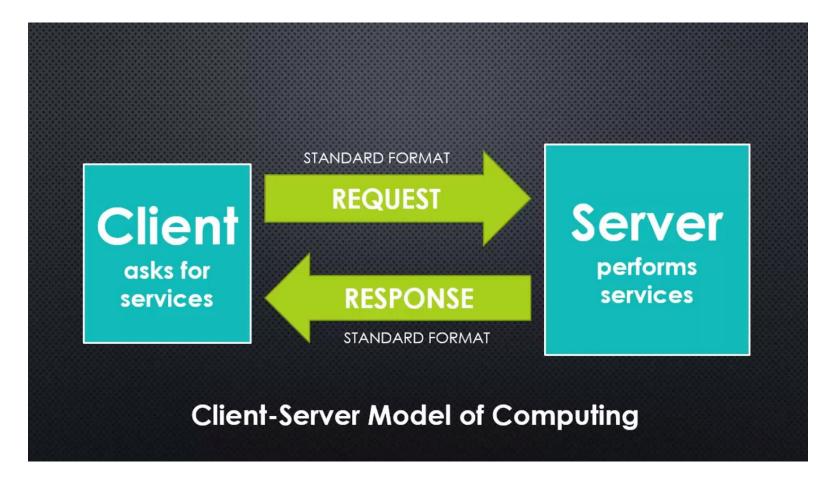


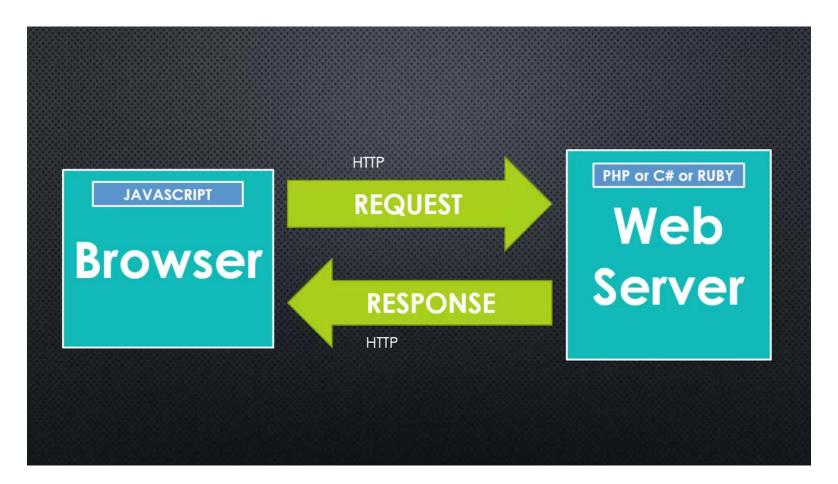
"V8 is Google's open source high-performance JavaScript engine, written in C++. It is used in Google Chrome, the open source browser from Google, and in Node.js, among others. It implements ECMAScript as specified in ECMA-262, and runs on Windows 7 or later, macOS 10.12+, and Linux systems that use IA-32, ARM, or MIPS processors. V8 can run standalone, or can be embedded into any C++ application."

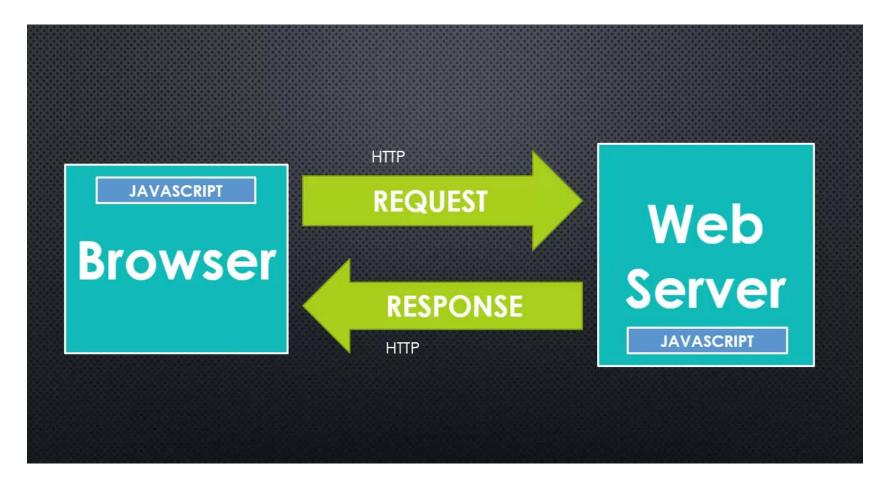


















## O JS base não suporta as seguintes operações, o Node.js veio facilitar as seguintes funcionalidades:

- Organizar o código de forma modular/pacotes
- Melhores formas de lidar com ficheiros
- Melhores formas de lidar com bases de dados
- A capacidade de comunicar na Internet
- A capacidade de aceitar pedidos e enviar respostas





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