

Desenvolvimento de Sistemas Web Anderson Luis



Ineficiência na gestão de recursos

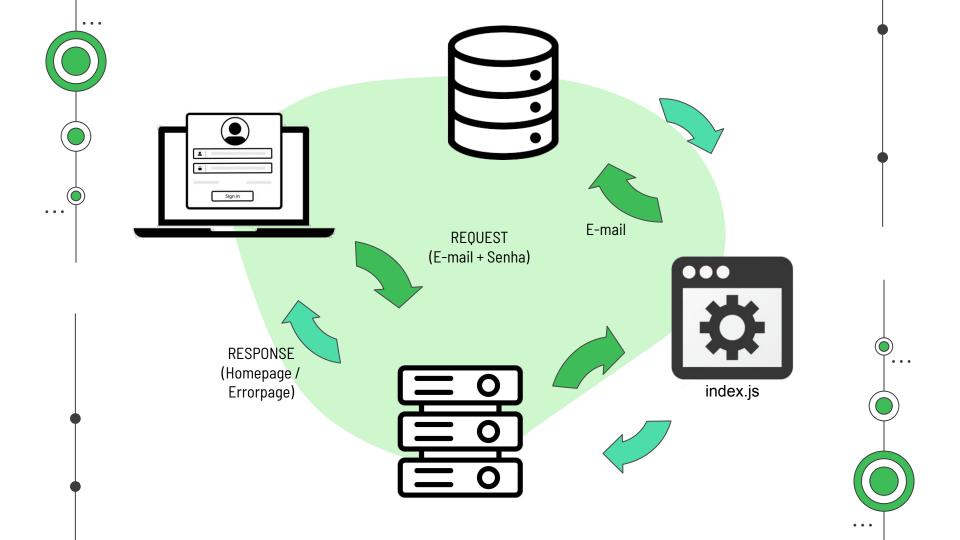
Histórico



Client-side & Server-side



Ryan Dahl



Histórico



Ineficiência na gestão de recursos



Client-side & Server-side



Simplificação no desenvolvimento



Command Line Interface



V8 Engine



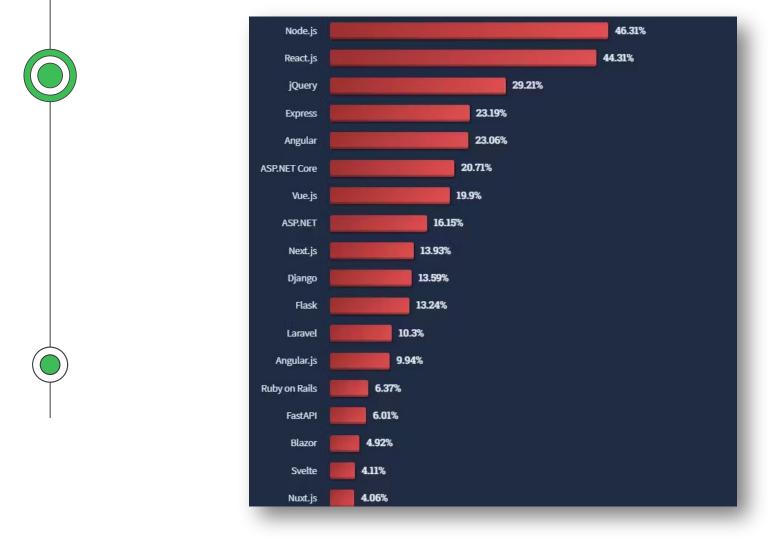
Ryan Dahl



O que é NODE?

"Node.js is an open-source and cross-platform JavaScript runtime environment."

- Não depende mais do interpretador do browser
- Ambiente Assíncrono Orientado a Evento
- Non-blocking





Vantagens





Utilização de Módulos



Ecossistema consolidado



Escalabilidade

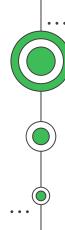




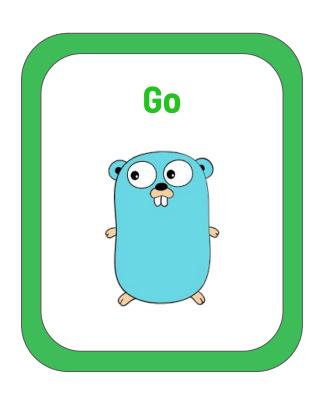


Open-Source

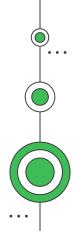




Concorrentes



- Linguagem compilada
- Com Garbage Collector
- Concorrência & Paralelismo
- Sintaxe não habitual

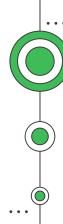




Concorrentes

- Linguagem compilada
- Paradigma funcional
- Sistemas distribuídos de alto desempenho
- Códigos de fácil manutenção
- Desempenho reduzido

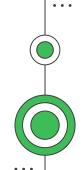




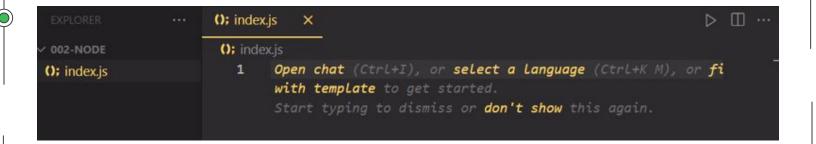
Concorrentes

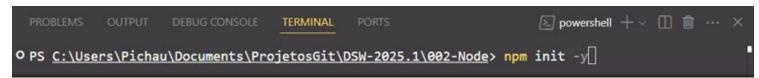


- Linguagem compilada
- Focada em segurança & desempenho
- S.O. e Drivers
- Gerenciamento eficiente de memória
- Sem Garbage Collector









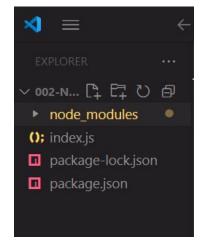


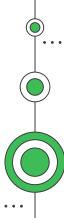


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powershell + v III iii ··· ×
                                   TERMINAL
PS C:\Users\Pichau\Documents\ProjetosGit\DSW-2025.1\002-Node> npm init -y
 Wrote to C:\Users\Pichau\Documents\ProjetosGit\DSW-2025.1\002-Node\package.json:
   "name": "002-node",
   "version": "1.0.0",
   "main": "index.js",
   "scripts": {
     "test": "echo \"Error: no test specified\" && exit 1"
    "keywords": [],
   "author": "",
   "license": "ISC".
   "description": ""
O PS C:\Users\Pichau\Documents\ProjetosGit\DSW-2025.1\002-Node>
```



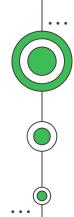








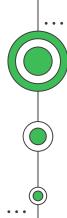
```
(); index.js
(); index.js > ...
       import inquirer from "inquirer";
       import qr from "qr-image";
       import fs from "fs";
       inquirer
           .prompt([
                   message: "Digite a URL: ",
                   name: "URL"
           .then((answer) => {
               const url = answer.URL;
               Let qr_code = qr.image(url)
               qr_code.pipe(fs.createWriteStream("qr_image.png"))
           });
 16
```

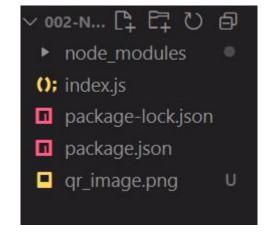


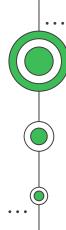




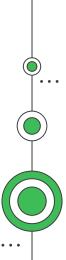
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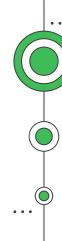












Referências

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- https://nodejs.org/pt/learn/getting-started/introduction-to-nodejs

