- Eclipse
  - Desktop
  - Flexible Extension System

- Eclipse Che IDE
  - Browser

- VS Code
  - Desktop
  - Modern Tech

... The Status Quo
SCOPE OF Theia

• Support Desktop and Browser Apps
• Based on modern technology
• Allow fine-grained customization through extensions
Support Desktop and Browser Apps

Build cross platform desktop apps with JavaScript, HTML, and CSS
Typescript was on the rise in 2017, used in almost four times as many pull requests as last year. (https://octoverse.github.com/)
OTHER GIANTS

• Monaco Editor
• Language Server Protocol
• Debug Server Protocol
DEMO
IMPLEMENT YOUR EXTENSION!

https://github.com/theia-ide/theia/blob/master/doc/Authoring_Extensions.md
Architecture of Theia

Frontend

| JSON-RPC |

Backend

FileSystem
Architecture of Theia

Frontend

Backend

FileSystem

JSON-RPC
Architecture of Theia

Frontend

Backend

FileSystem

JSON-RPC
Architecture of **Theia**

- **Frontend**
  - Chromium
- **Backend**
  - Redis
  - Filesystem
  - Node.js

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**Tools:**

- Electron
- Docker
Multi-User Eclipse Che & Kubernetes
Open Sourcing Codenvy into Eclipse Che

Eclipse Che 6.0 / 5.x ?
Theia 1.0 BETA
December 6

• Extension System
• Git Support
• Language Server Protocol
• Preferences
• Markers (Problems View, Bookmarks)
• Command Palette
• much more …
GET INVOLVED

https://github.com/theia-ide/theia