## Why NodeJS?

4. Jahrgang

# Companies using NodeJS in Production

Netflix

LinkedIn

• Uber

Groupon

Wallmart

Trello

PayPal

NASA

eBay

Yahoo

See: <a href="https://www.netguru.co/blog/top-companies-used-nodejs-production">https://www.netguru.co/blog/top-companies-used-nodejs-production</a>

#### Benefits

- Uses an event-driven, non-blocking I/O model
- Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world
- exceptional scalability and a good ratio between product performance and developer effort

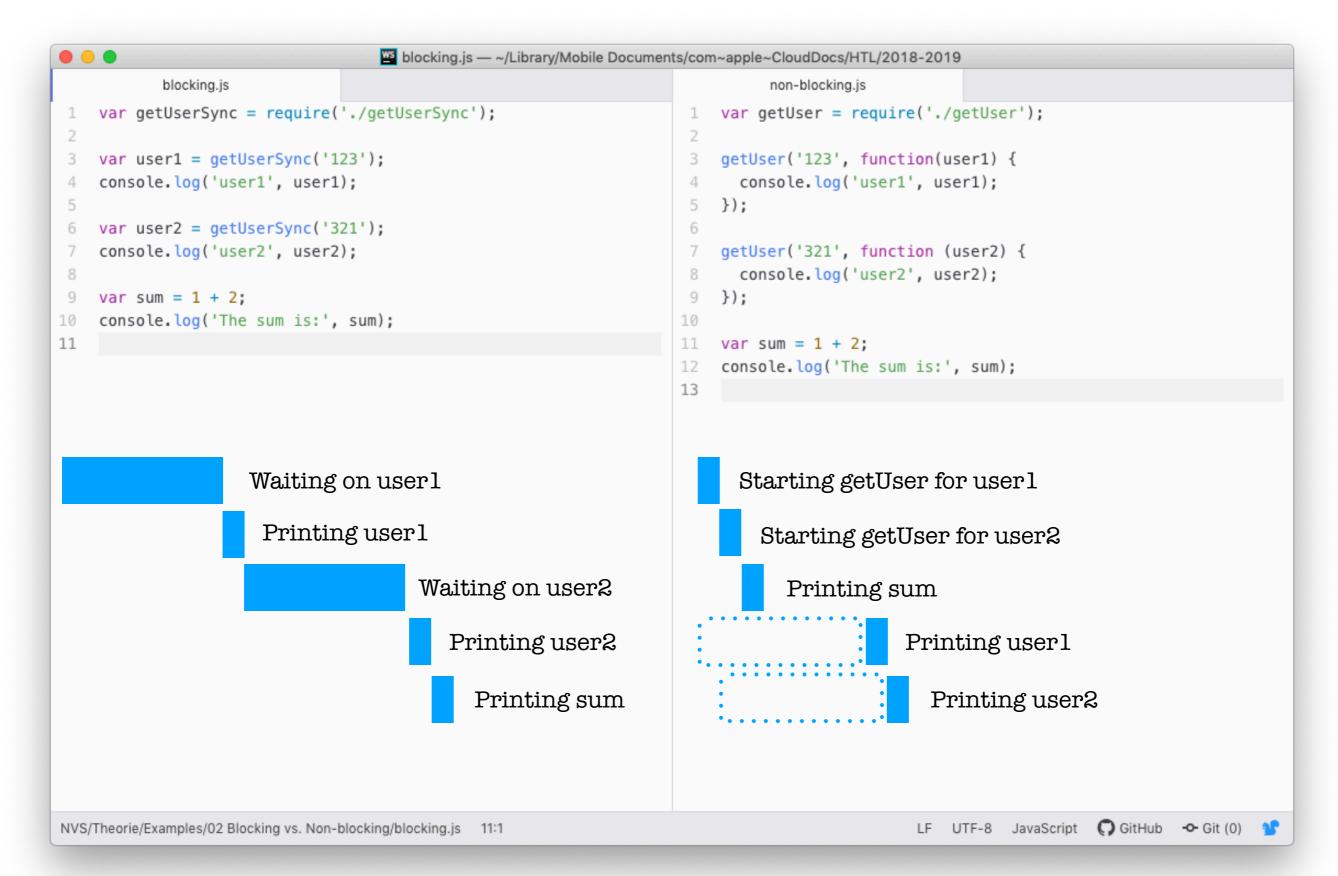
What does that mean?



# Non-blocking I/O

- I/O happens all the time
  - reading/writing to a database
  - changing files on FS
  - http request to an external server
    (e.g. fetching coordinates for user's location)
- I/O takes time
- Non-blocking → while one user is requesting a URL from Google, other users can request data from database, etc.

#### Blocking vs. Non-blocking



### npm

- Huge amount of ready to use packages
- Big community
- Solutions for common problems
  (e.g. validating objects, creating servers, sockets, ...)
  - → we can focus on solving specific issues related to our application

See: https://www.npmjs.com