

Moderne Web APIs mit Node.js

Was Euch **erwartet**

- Übersicht über moderne Web APIs
- Erfahrungen aus echten Projekten
- Live Coding/HandsOn

Was Euch **nicht** erwartet

- InDepth der einzelnen Themen
- Allgemeinrezept für Web APIs



Moderne Web APIs mit Node.js

Ein Blick hinter die Kulissen

Sven Kölpin
sven.koelpin@openknowledge.de
@dskgry

Manuel Rauber
manuel.rauber@thinktecture.com
@manuelrauber

Your Speakers

Sven Kölpin



Does stuff @ OPEN KNOWLEDGE GmbH

✉ sven.koelpin@openknowledge.de

🐦 @dskgry

🌐 ?

Manuel Rauber



Consultant @ Thinktecture AG

✉ manuel.rauber@thinktecture.com

🐦 @manuelrauber

🌐 <https://manuel-rauber.com>

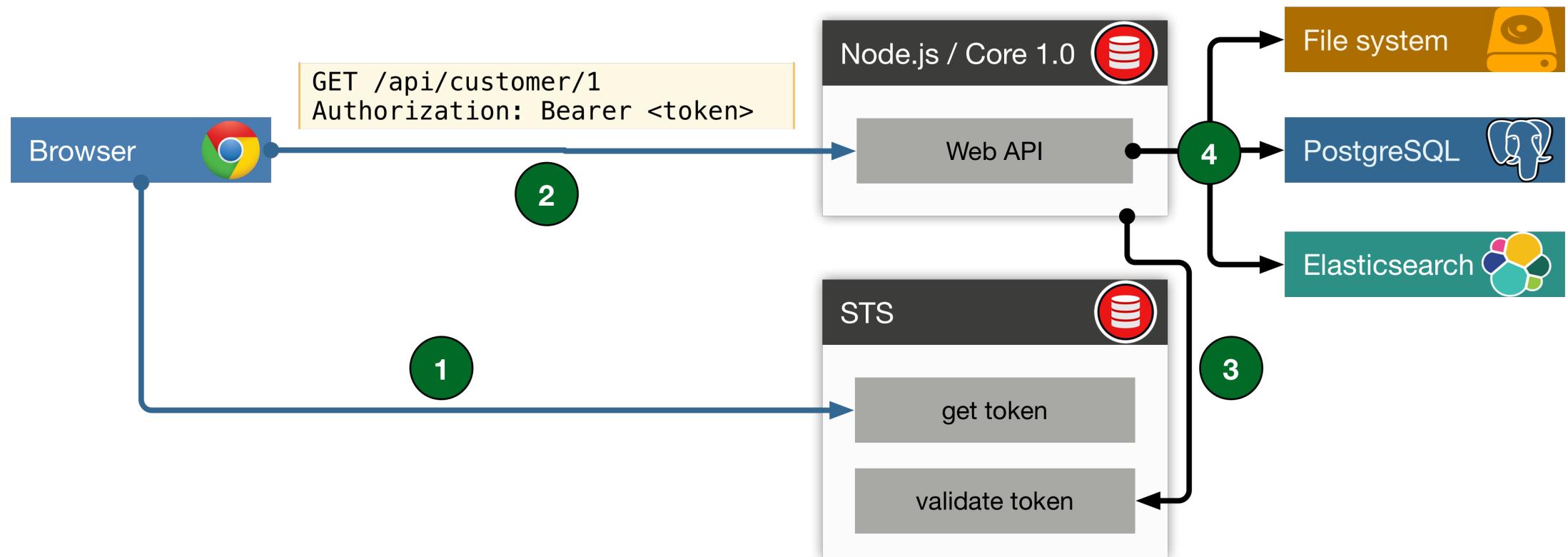
Timetable

When	What
09:00 – 10:30	Working time
10:30 – 11:00	Break
11:00 – 12:30	Working time
12:30 – 13:30	Lunchbreak
13:30 – 15:00	Working time
15:00 – 15:30	 & 
15:30 – 17:00	Working time

Talking points

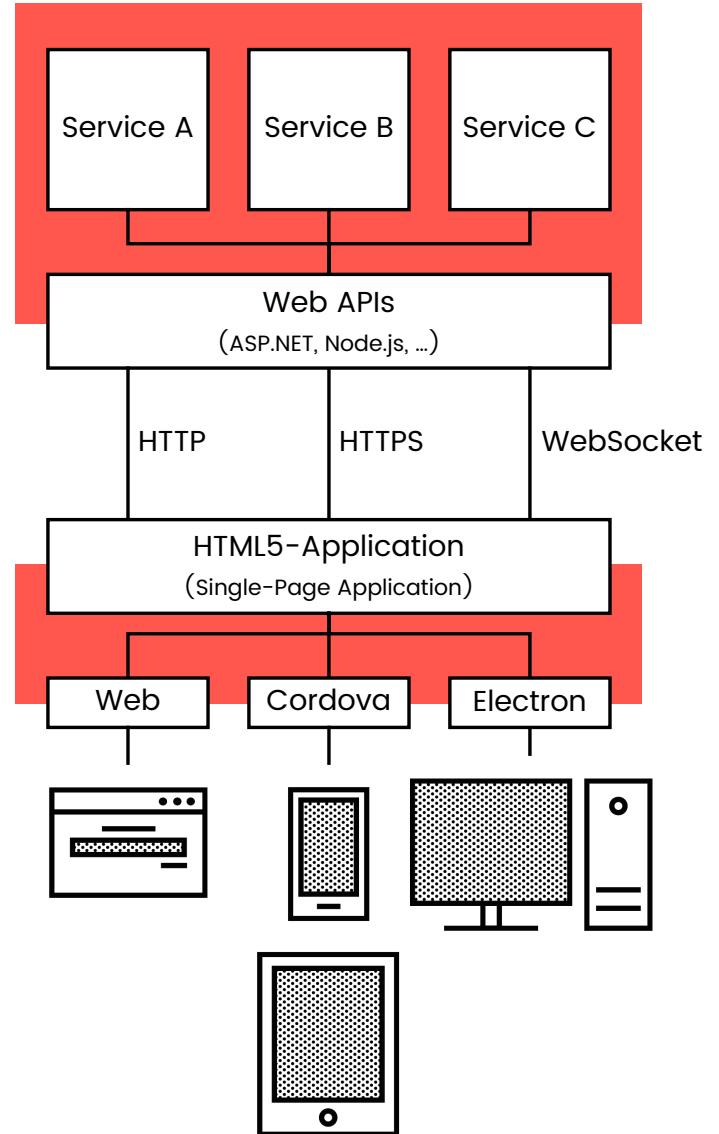
- Unsortiert/Ideen
 - Web APIs
 - React
 - Node.js
 - Architecture
 - Databases
 - Rethink DB

Web APIs



Web APIs

- Lightweight service-based architecture
 - Functional services with dedicated interfaces
 - Use other services, like database or file system
- (JSON-based) Web APIs
- Application push services via WebSocket
 - SignalR
 - Socket.io



Single- vs. Multi- vs. Cross-Platform

Windows

macOS

Linux

iOS

Windows Phone

Android

BlackBerry 10

FireOS

Browser

...

TV

Refrigerator

Cross-Platform

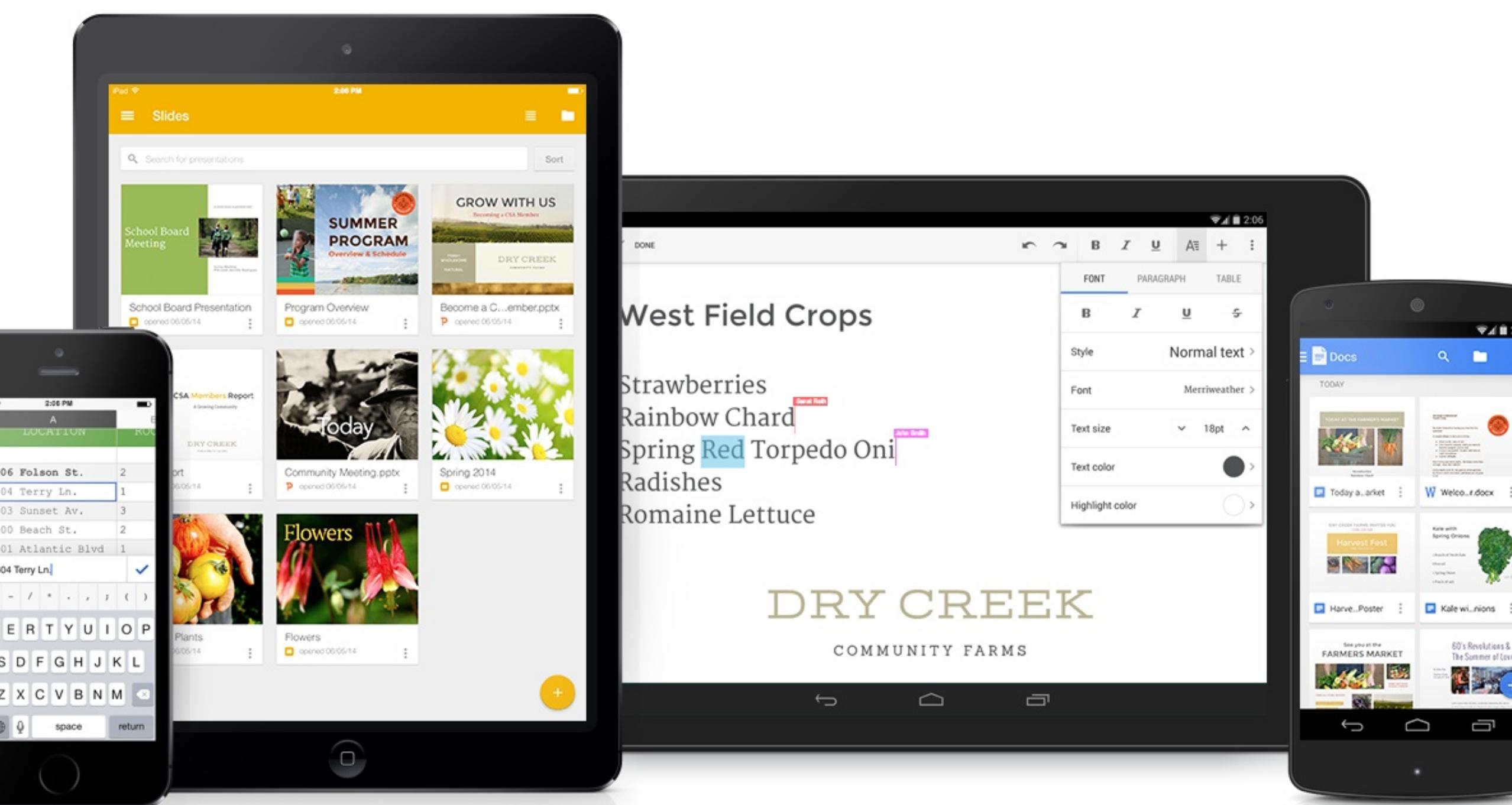


But it doesn't look like a
native application!

Exactly.

The image displays three devices running the Spotify application:

- Desktop (Top):** Shows the "Top Tracks in Your Network" page. The main header reads "Top Tracks in Your Network" with the subtext "The most played songs in your network over the last 7 days." Below this is a table listing top tracks, artists, and listeners. The first few tracks are:
 - 1. Take Me To Church - Hozier (+4 listeners)
 - 2. Can't Do Without You - Caribou (+2 listeners)
 - 3. Girl - Jamie xx (+2 listeners)
 - 4. Disparate Youth - Santigold (+2 listeners)
 - 5. Ni**as In Paris - JAY Z, Kanye West (+2 listeners)
- Smartphone (Bottom Left):** Shows an artist profile for Raury. It includes a profile picture, the name "Raury", a "VIEW PROFILE" button, a "PLAY" button, a "FOLLOW" button, and a "..." button. Below this, it shows "RELATED ARTISTS" and a track release for "Cigarette Song" from July 29, 2014.
- Smartphone (Bottom Right):** Shows a "SHUFFLE PLAY" queue titled "TOP TRACKS IN YOUR NETWORK". The queue includes:
 1. Take Me To Church by Hozier (+4 listeners)
 2. Can't Do Without You by Caribou (+2 listeners)
 3. Girl by Jamie xx (+2 listeners)
 4. Disparate Youth by Santigold (+2 listeners)



The Web as a platform

HTML



CSS



JS

TypeScript

HTML5

CSS3

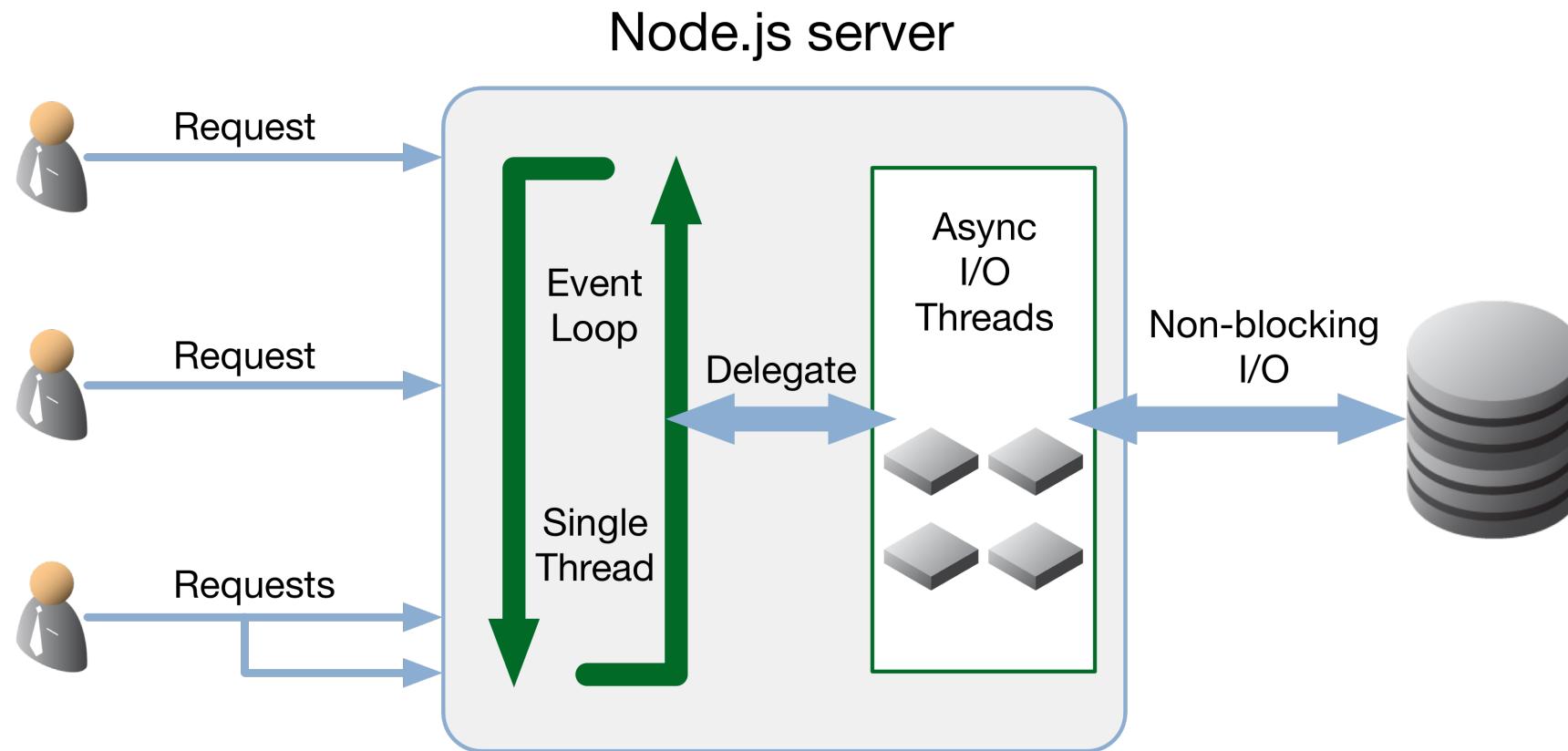
JavaScript & TypeScript

React

Node.js – Intro

Node.js – Features

Node.js – Server Architecture



Node.js – Alternatives

Node.js – Pros

- ...
- Enterprise proven: Netflix, Paypal, Groupon, Walmart, ...

Benjamin Coe @BenjaminCoe · Jun 3
@CollinEstes I heard a rumor that NASA uses Node.js for space-suits. I'm curious, do you use the npm ecosystem to develop these apps?

63 76

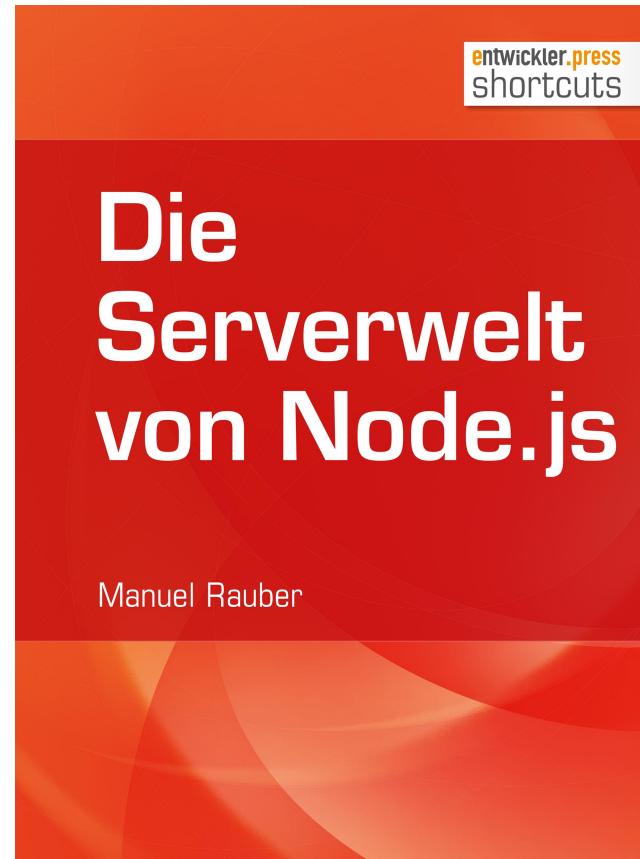
Collin Estes @CollinEstes · Jun 3
@BenjaminCoe You heard correctly, and yes we do.

36 89

https://nodejs.org/static/documents/casestudies/Node_CaseStudy_Nasa_FNL.pdf

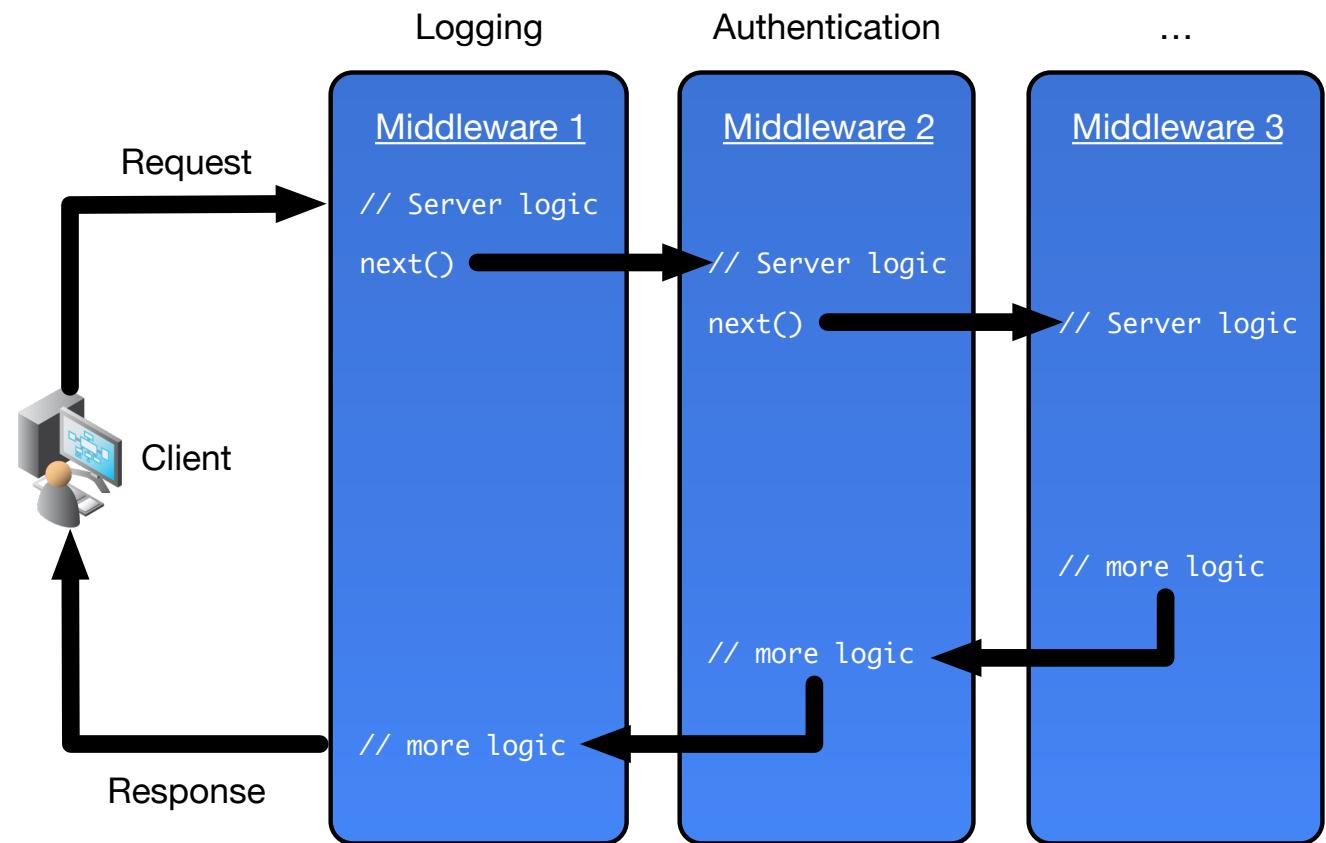
Node.js – Watch out!

Node.js – Product Placement



<https://entwickler.de/press/shortcuts/die-serverwelt-von-node-js-2-262553.html>

Node.js – Restify



Thank you! Questions?

Repository

<https://github.com/dskgry/clarissa/>

Sven Kölpin

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