

# Small optimizations for critical decisions

30.March.2023



# AGENDA

System overview

There's a lib for that

The last mile

Compaction

WebSocket API misconceptions

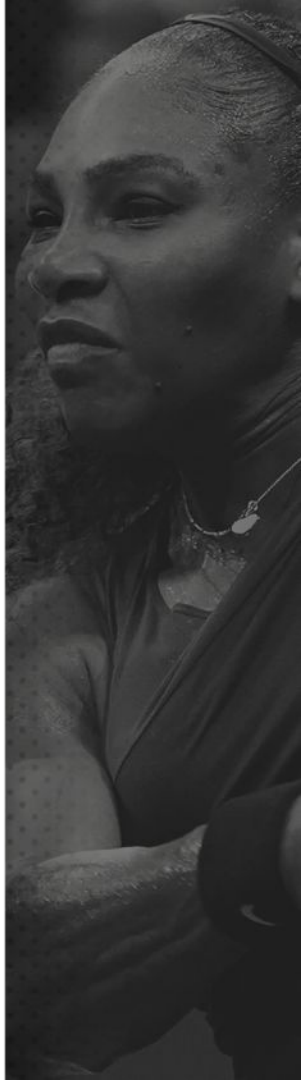
Micro-frontends

Infrastructure for frontend

Refactoring

A note on quality

Q&A



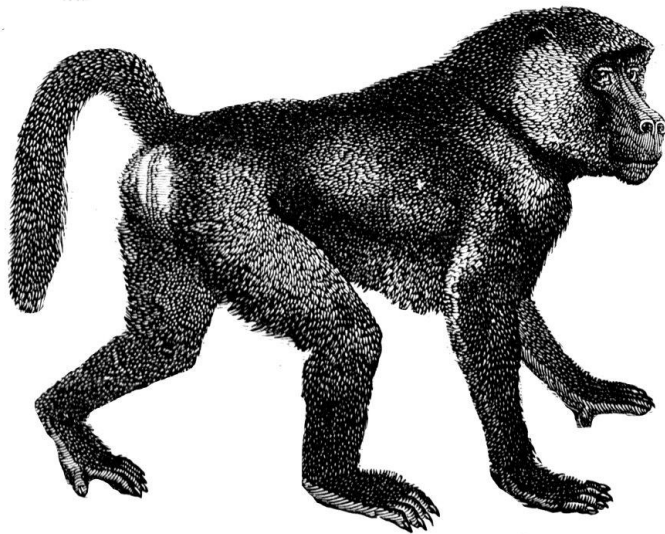
# System overview

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- 10s of thousands of services
- Millions of transactions per hour
- 10s of millions of updates per hour
- Multiple verticals
- Highly regulated niche
- Spiky load
- Performance vs Cost

# There is a lib for that

- Code audit
- Dependencies audit
- Roadmap
- Open issues
- State of the repository
- Commit history
- Security audit
- Distribution in the internal network
- Executing on CI/CD environment
- Executing on engineer's machines



**There is a  
library for that**

The definitive guide

# The last mile delay

- Transmission medium
- Propagation
- Hops on the network
- Storage delays
- Last mile delays

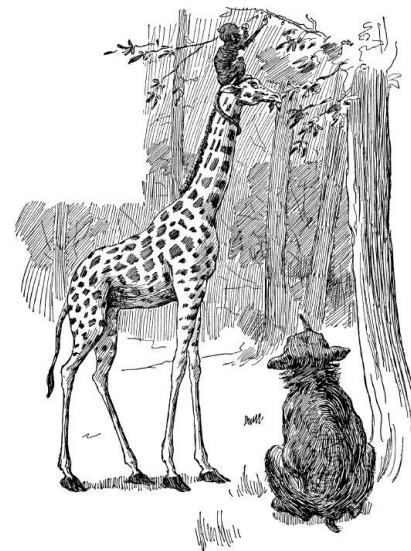


## The last mile delay

The definitive guide

# Compaction

- Deduplication
- Compression
- Aggregation
- Pruning



# Compaction

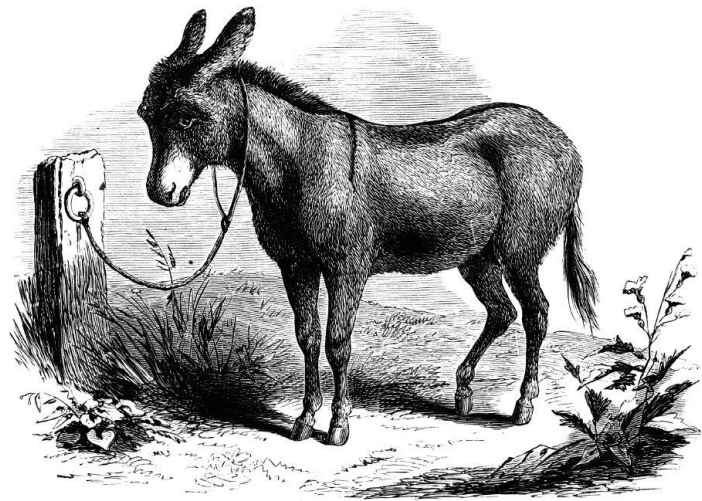
The definitive guide

**O'RELY?**

by Every Developer

# WebSocket API misconceptions

- It is hard
- Let's not reinvent the wheel
- There's got to be a library for that

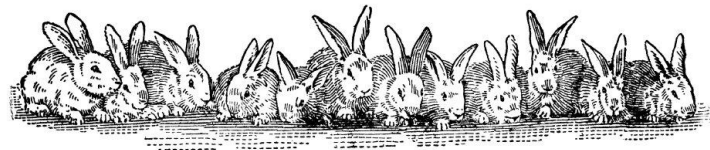


## WebSocketAPI misconceptions

The definitive guide

# Micro front-ends

- Application layering
- Vertical segregation
- Communication design
- Interface design
- Deployment strategy
- Independent deployment/testing/development
- Development experience
- Many teams extending the same platform



## Micro front-ends

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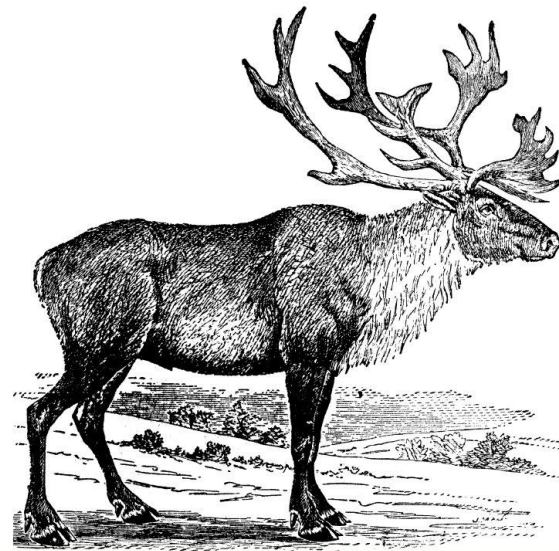
**O'RELY?**

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# Infrastructure for frontend

- Getting NPM packages securely and safely
- CI/CD
- Release management
- Distributing content in packages
- Communication between packages
- Testing environments



## Infrastructure for the front-end era

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# Refactoring

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- Changing code and seeing what happens



## Refactoring other people's code

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# A note on quality

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- Quality is everybody's job



Q&A

