Tools

npm run
Tools in JS

- Transpilers
- Linters
- Bundlers
- Testers
- Builders
Transpilers

- Why? Javascript variants / versions
- Browser / NodeJS implementations
- ES5 —> ES6 —> ES7
- Babel
  - Write ES7, Deploy ES5
  - Take advantage of latest language features
Linters

• Why? Aim to write code for others
• Static Code Analysis
• ESLint: highly configurable rules
Bundlers

- Why? Dependencies
- Webpack
  - Live updates
- Workflows
  - Track dependencies
Testers

- Why? Quality
- Mocha
  - Write tests
  - Coverage
  - Continuous Integration
Builders

- Why? Code needs to run elsewhere
- npm run...
Continuous Integration
C.I.

- Best Practices
  - Automate Build process
  - Self-Test
- Everyone commits to main branch
- New commits trigger build/deploy
- Test in a Production clone
Trends

- Microservices
- Cloud-based computing
- Dynamic load balancing
- Serverless
- Zero-downtime.