JavaScript

Not only something that makes your banners fancy…

Siim Tiilen, 2017

timeline of JavaScript

past, present, future…

- 1996 - first browser support
- 1998 - ECMAScript 3
- 2009 - ECMAScript 5
- --↑---↑-"vanilla js"-↑---↑--
- 2015 - ECMAScript 6 (ES6)
- 2016 - ECMAScript 2016
- … ES.Next

npm

package manager for JavaScript

JavaScript has world largest collection of packages ready to use.

Global npm registry (600k+ packages)

- https://www.npmjs.com/

Yarn - awesome NPM client :)

- https://yarnpkg.com/en/

linting

helps to detect errors and potential
problems in your code...

JavaScript

- ESLint ← probably most used (known)
- JSLint, jshint ...

- tslint ← typescript

CSS:

- Stylelint
- Sass-lint ...

And so many other things ... swagger?

testing

all around testing with JavaScript...

Test frameworks:

- Mocha
- Jest

Others:

- Sinon - test spies, stubs and mocks
- Chai - assertion library
- Istanbul - code coverage
- Karma - test runner
- Nightwatchjs - (real) browser testing
- .....

bundling assets

webpack and toolkit around it can bundle all your assets

- [Webpack](#) - bundles your assets
- [Babel](#) - write next generation JavaScript today
- [UglifyJS](#) - minify your javascript for production usage
- [postcss](#) - write css using sass, less …
- [webpack-dev-server](#) - for all your development needs (hot-reload)
- Bundle reports
- Source maps, i18n, ….
- linters
- image loading, optimize…
- …

webpack is not the only tool like that, there are more, example: [rollupjs](#), …

Node.js

server side JavaScript

Isomorphic JavaScript 😋

- Expressjs - extendible web framework
- Socket.IO - real time applications
- Apollo - graphql
- Restify - rest api
- Grunt / Gulp - task runners
- ...

And not only in server:

- Electron - build desktop apps
  - Atom, VS Code

more...

.....

- **Vue** - building user interfaces
- **lodash** / **underscore** - utility libraries
- **jQuery** (**cheerio**) - html manipulation
- **Moment** - parse, validate, manipulate dates
- **yargs** / **chalk** - terminal apps
- ...
- this list can be quite endless...
- ...

- **TypeScript** - superset of JavaScript
- **Flow-type** - Type safe JavaScript