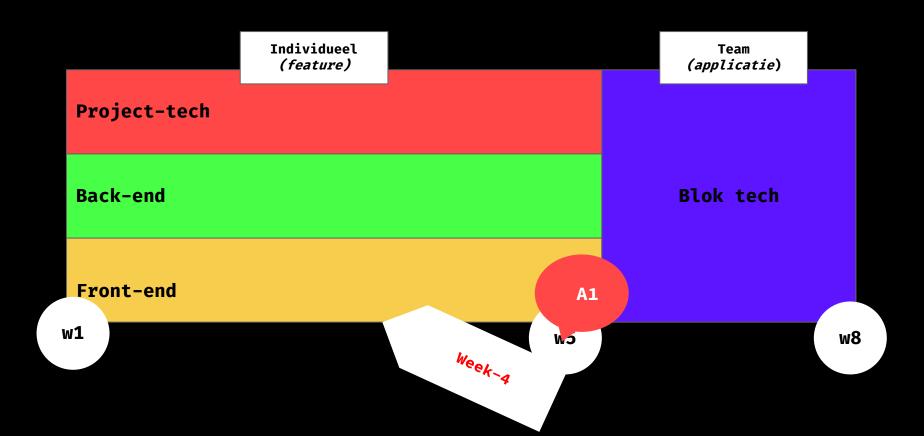
project-tech

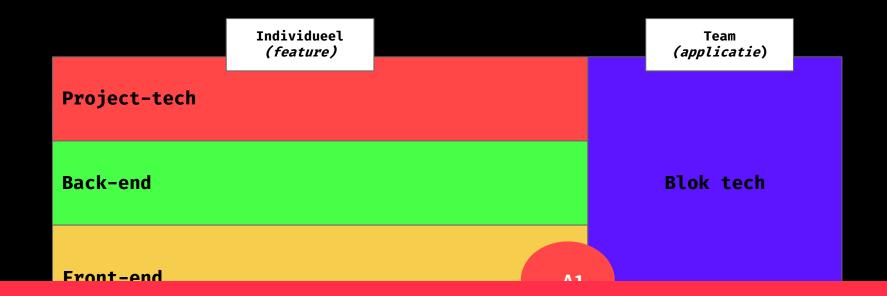
Refactor

lab 4/8

Show what you did

Stand-up!





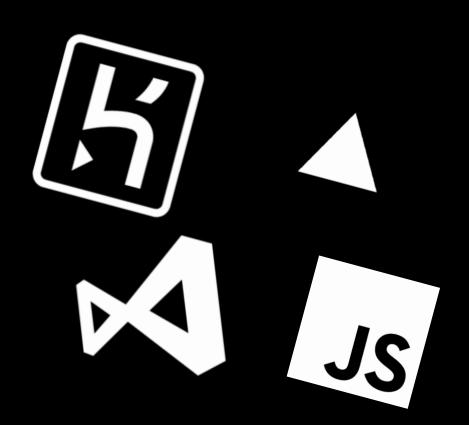
Note: Next week (5) we'll do a final peer review.

See it as a checklist.

today

I.Standup

II.Refactoring



Refactoring

?

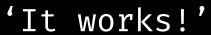
[...] a disciplined technique for restructuring an existing body of code, altering its internal structure without changing its external behavior.

humans

The code you write will be executed by computers, but it will exclusively be read by humans. Therefore, it's critical that your code is easy to read, understand, and "mentally parse".

humans









'It's beautiful!'

```
Bad:
  function addToDate(date, month) {
   // ...
 const date = new Date();
 // It's hard to tell from the function name what is added
 addToDate(date, 1);
Good:
  function addMonthToDate(month, date) {
    // ...
  const date = new Date();
  addMonthToDate(1, date);
```

```
Bad:

const DAYS_IN_WEEK = 7;
const daysInMonth = 30;

const songs = ["Back In Black", "Stairway to Heaven", "Hey Jude"];
const Artists = ["ACDC", "Led Zeppelin", "The Beatles"];

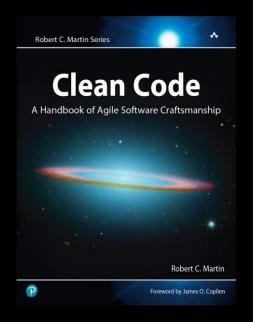
Good:

const DAYS_IN_WEEK = 7;
const DAYS_IN_MONTH = 30;

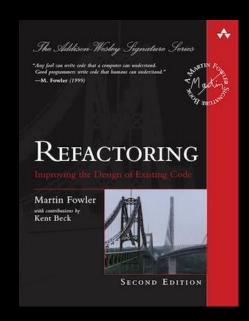
const SONGS = ["Back In Black", "Stairway to Heaven", "Hey Jude"];
const ARTISTS = ["ACDC", "Led Zeppelin", "The Beatles"];
```

Use consistent capitalization

books

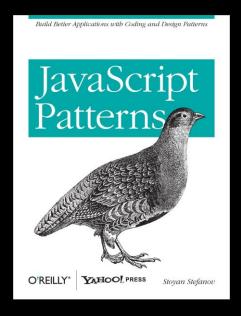


Clean Code
Robert C. Martin



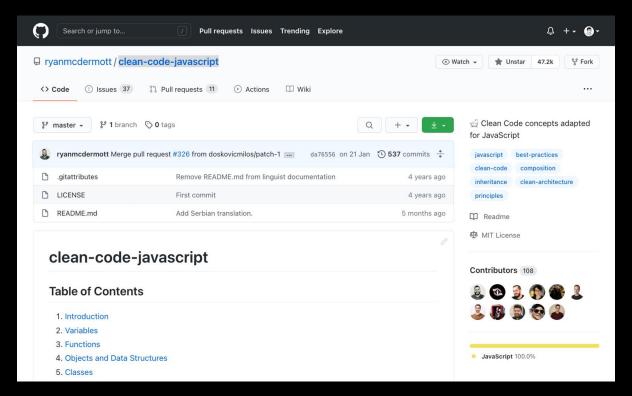
Refactoring

Martin Fowler



JS Patterns
Stoyan Stefanov

github



github.com/clean-code-javascript

standards

Code quality: how do we define "bad" code? If it's overly complex? If it's 'messy?"

In conclusion: "bad" code can mean multiple things (simultaneously). Code can look horrible (to a developer), but still do what it is supposed to do. Is this bad code?

standards

Why is maintaining a good coding style important?

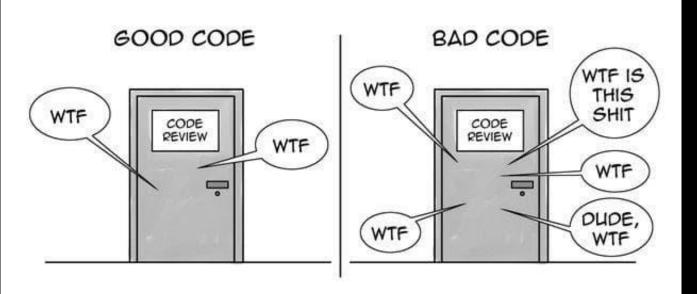
- To avoid hard to catch errors as much as possible.
- Other developers can understand what your code does
- To save time and avoid stress
- Clean written code *is* your documentation!

helpful tools

- Linters to enforce rules
- Formatters to format code
- ❖ A Good Night's Sleep
- Code peer reviews

low-hanging fruit

- ES5 vs. ES6 (variables, arrow functions)
- Inconsistent Indentation



THE ONLY VALID MEASUREMENT OF CODE QUALITY: WTFS/MINUTE

geekbot.com

exit:

see you in lab-5!