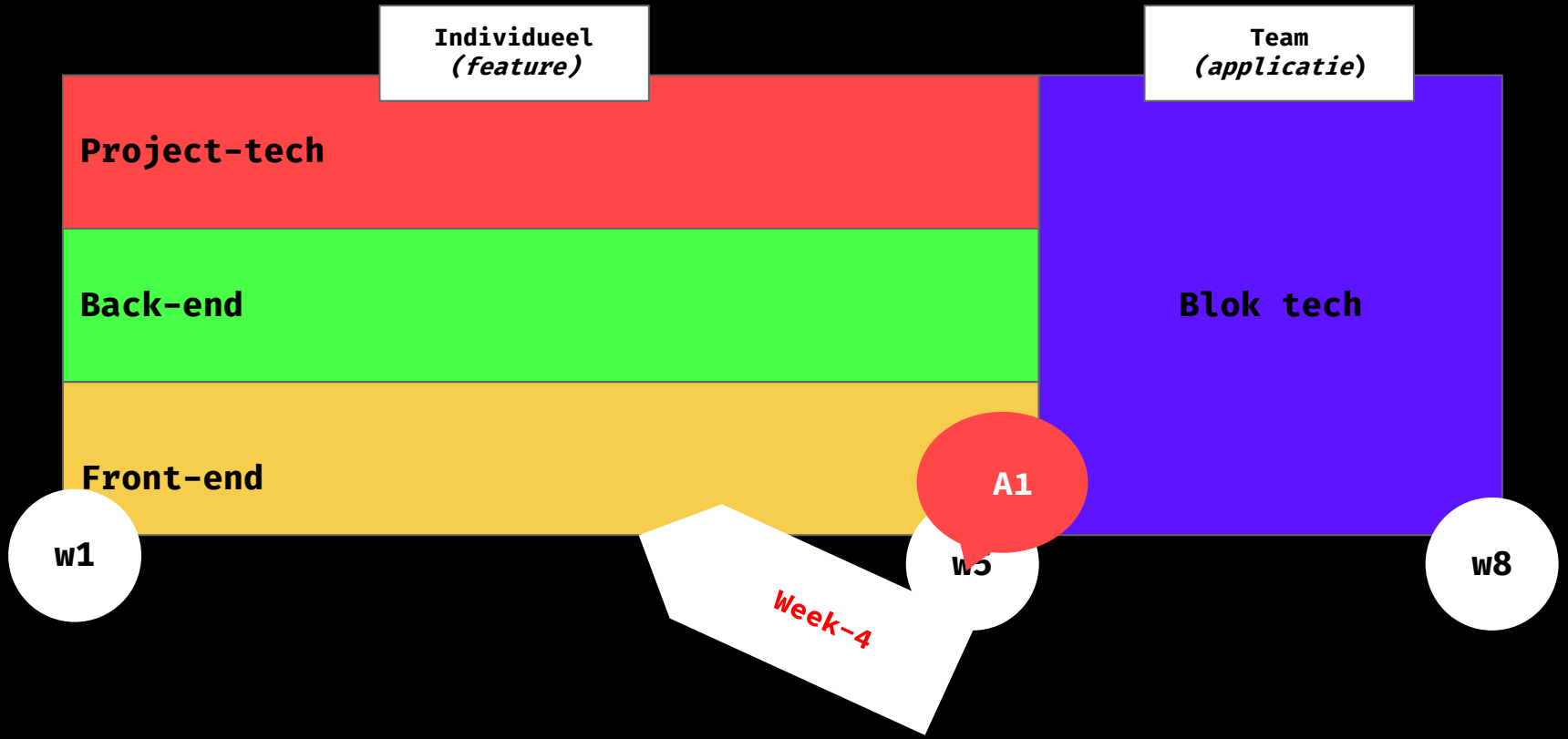
project-tech

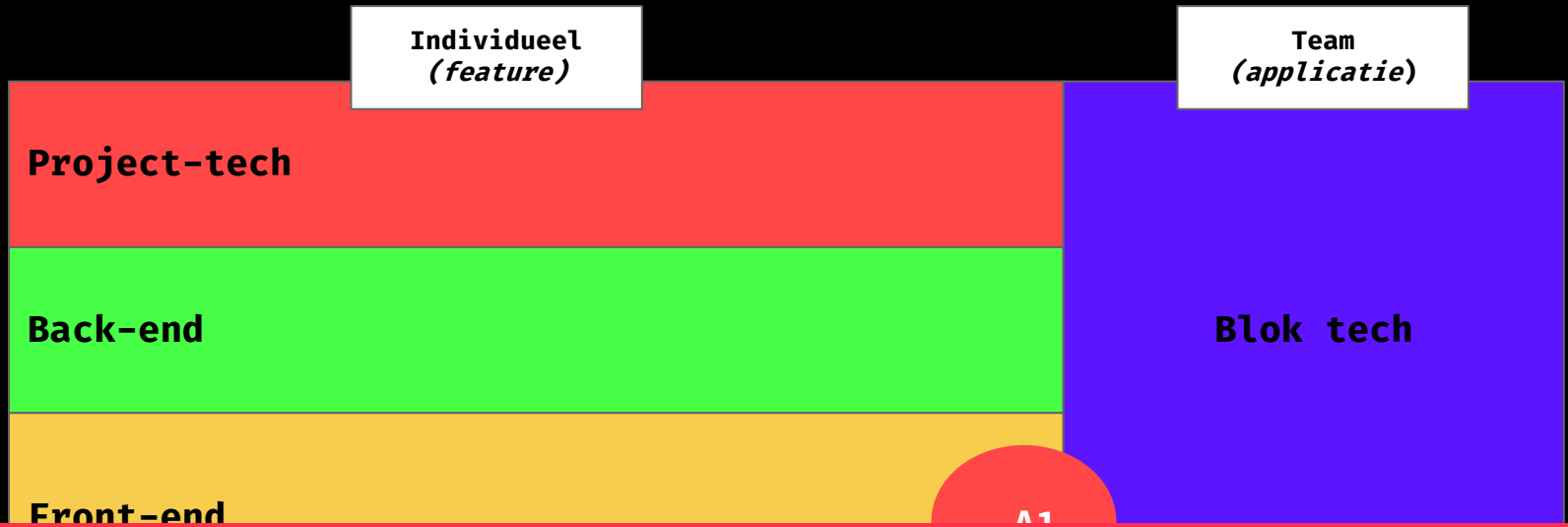
Refactor && Deployment

lab 4/8

Stand-up!

Show what you did


Individueel
(feature)
Team
(applicatie)
Project-tech
Back-end
Front-end
Blok tech
A1
w1
w5
w8
Week-4



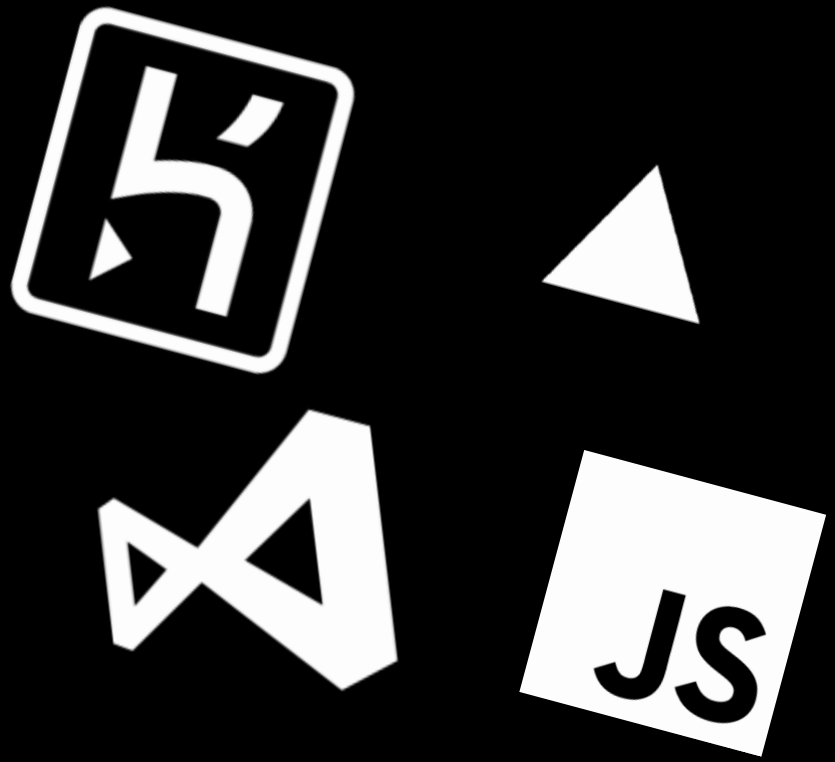
Note: Next week (5) we'll do a final peer review.
See it as a checklist.

today

~~I. Standup~~

II. Refactoring

III. Deployment



Refactoring

Refactor

?

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

refactoring.com

Refactor

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".

Refactor

humans

✨

‘It works!’

‘It’s beautiful!’

Refactor

example

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);
```

Function names should say what they do

Refactor

example

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:

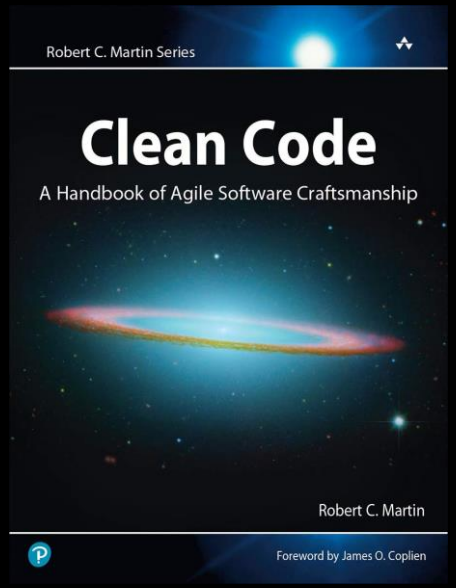
```
const DAYS_IN_WEEK = 7;
const DAYS_IN_MONTH = 30;

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

Use consistent capitalization

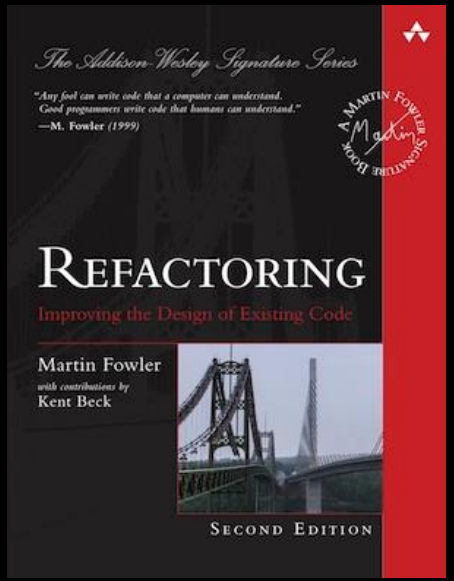
Refactor

books



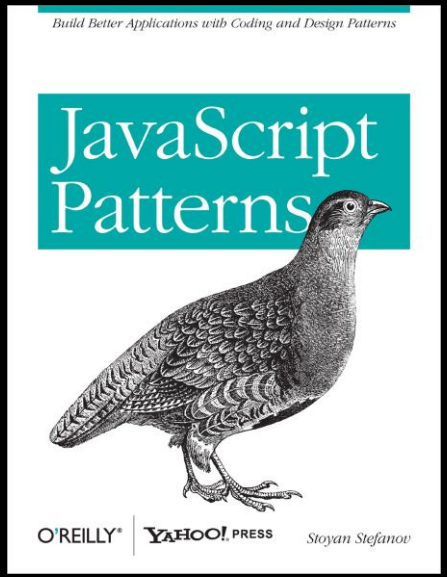
Clean Code

Robert C. Martin



Refactoring

Martin Fowler

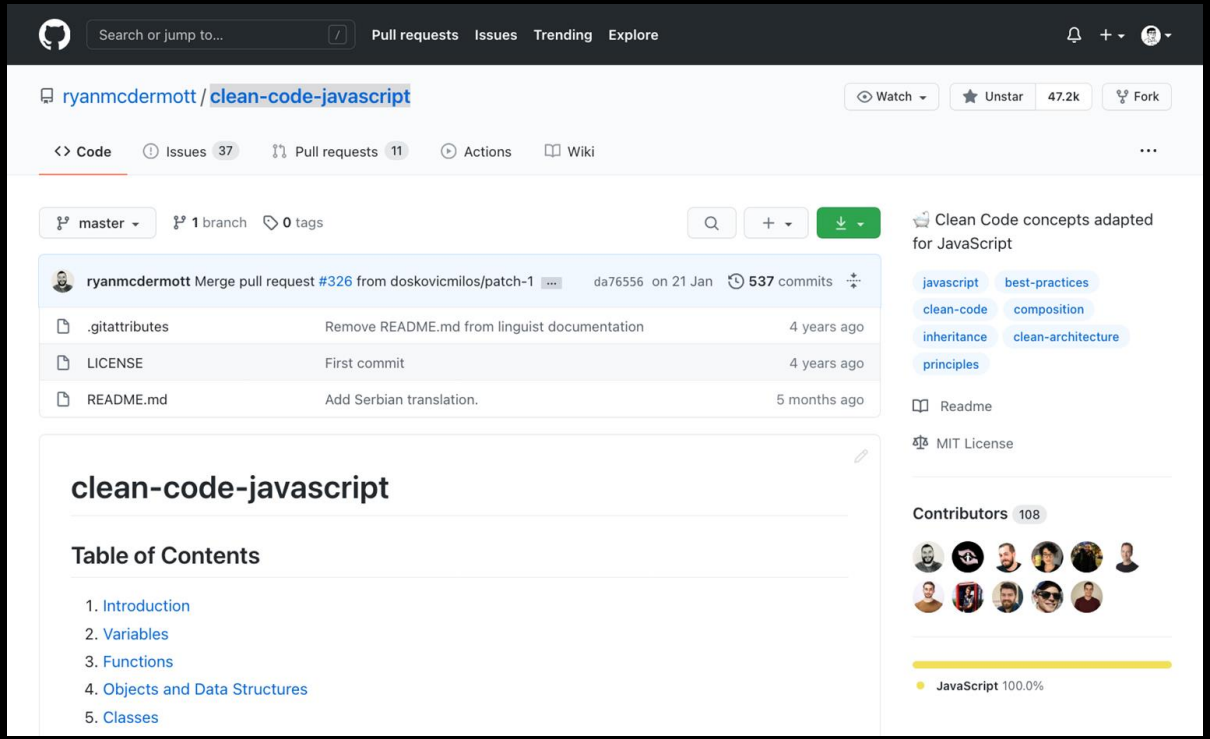


JS Patterns

Stoyan Stefanov

Refactor

github



github.com/clean-code-javascript

Refactor

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?

Refactor

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!

Refactor

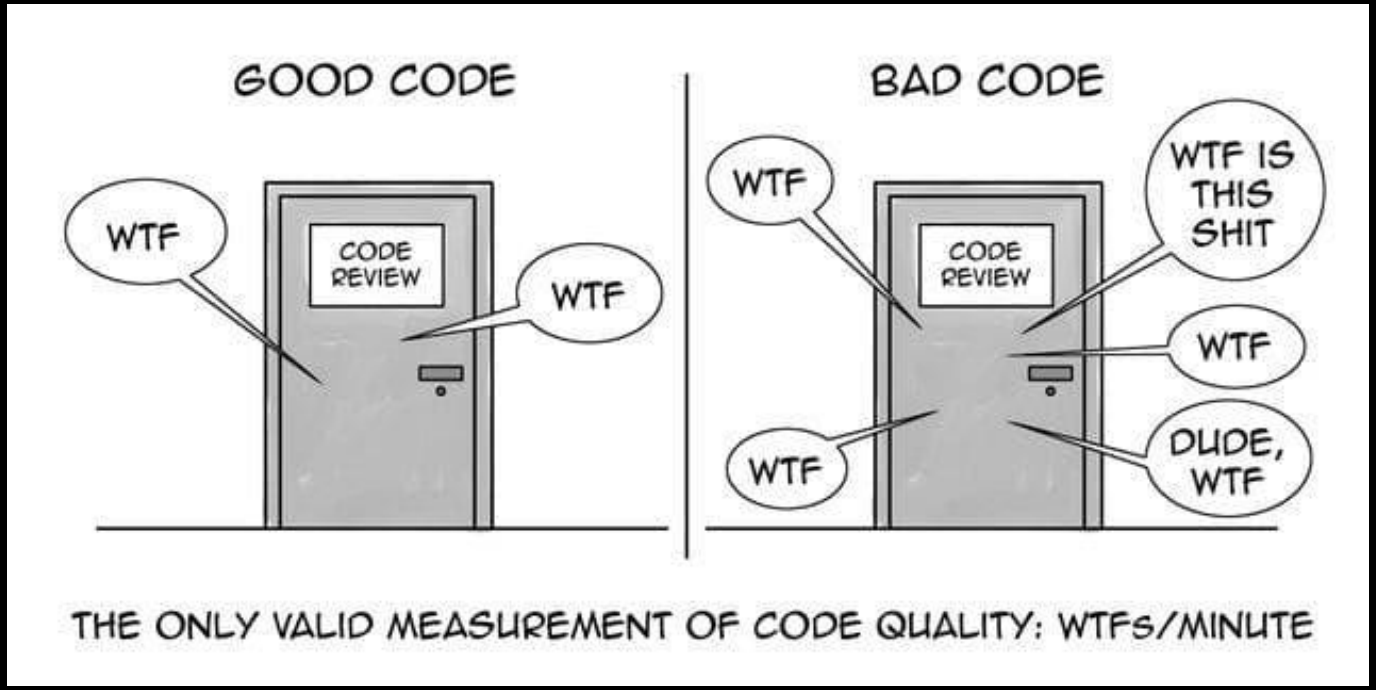
helpful tools

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

Refactor

low-hanging fruit

- ES5 vs. ES6 (*variables, arrow functions*)
- Old code *(that's in comments)*
- Inconsistent Indentation


GOOD CODE
WTF
CODE REVIEW
WTF
BAD CODE
WTF
WTF IS THIS SHIT
CODE REVIEW
WTF
WTF
DUDE, WTF
THE ONLY VALID MEASUREMENT OF CODE QUALITY: WTFs/MINUTE

geekbot.com

exit;

see you in lab-5!