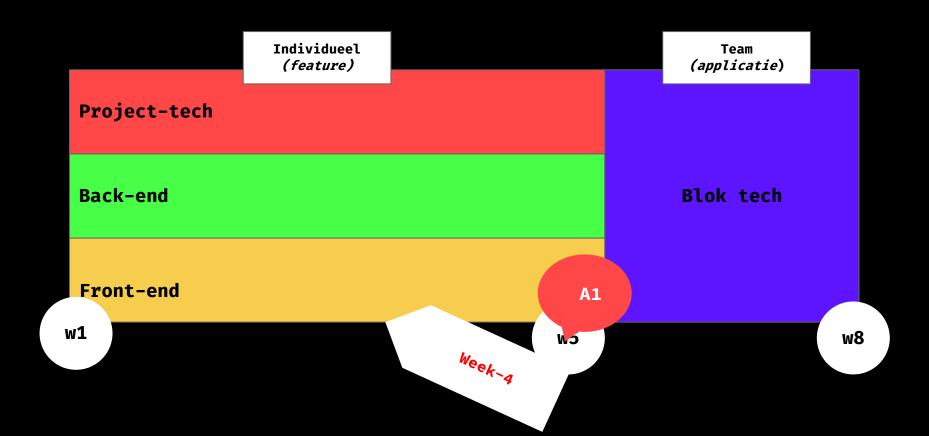
# project-tech

### Refactor

lab 4/8

Show what you did

# Stand-up!



#### Rubric

You've written a job story and there is a concept but it's vague on what to build  You've written a job story and there is a concept but it's vague and lacks specificity, you didn't research other matching  You've written a good job story, there is a clear concept and there are wireframes, wireflows and a requirements list  You've designed you interface and there is a clear direction for the look & feel of your application  Application		1-2	3-4	5-6	7-8	9-10
application features application feetures application feetures application feetures	Concept	concept and idea	story and there is a concept but it's vague and lacks specificity, you didn't research	story, there is a clear concept and there are wireframes, wireflows	your interface and there is a clear direction for the look & feel of your	You've extensively designed your interface and thought of edge cases and different states, user experience is optimal and the flow of the application feels natural

- Is het compleet? Hoe uitgebreid is alles uitgewerkt?
- Is duidelijk wat je precies kiest om te gaan bouwen?
- Zoom in: concepten -> job stories voor 1 concept ->
  requirements voor 1 job story
- Verwijs je naar je bronnen in de wiki?

	Research	technical research in the wiki	is thoroughly covered, there is no argumentation on why specific technology was picked	application. You documented them clearly in your wiki, there is argumentation on why specific technology is chosen.	clearly explain choices you made and can offer alternatives for chosen technology.	conversation can be held about the technology used in the project.	
<ul> <li>Gebruik de voorbeeldtekst om op weg te komen, maar ga niet letterlijk alle vragen beantwoorden. Maak een leesbaar verhaal en bepaal zelf jouw highlights. Haal voorbeeldtekst weg</li> <li>Waar kan research over gaan? Hoe gebruik je Git(Hub)? Waar is command line nuttig? Hoe richt je je dev-omgeving optimaal in? Gebruik je build-tools? Wat staat er in de README en wat kan je nog meet aan documentatie in je repo zetten? Selectie van een</li> </ul>							

You researched technical

terms and concepts,

covered in the project

tech classes, related to

vour matching

You described

more advanced

technical research

in the wiki. you

The documentation

reads like a great

books and a nerdy

There is some

technical research in

the wiki but not every

topic covered in class

There is no

linter en formatter?

				incomplete from user point of view	ı a w	colid flow trough screens.  The interface is designed.	addi interact	tional ions and lback.	basicall	y created e features.	
- In	elk	geval	een	feature	met	dynamische	data.	Liefst	uit	een	
- 1n	еιк	gevat	een	reature	met	aynamısche	data.	глет	Sτ	st uit	st uit een

The feature partially

works but is not

complete. The project

gives errors and

warnings, the flow is

database, eventueel uit een los JSON bestand.

The feature

doesn't work

technically

Application

The feature technically

completely works and is

usable from a user

experience point of view.

Core functionality works

and the application has a

The feature is

technically

advanced and

complex. The

interface is well

designed and has

The user experience is

fantastic and the

feature is complex.

You took special care

of your interface and

vour user. You've

-	Gebruik je aantoonbaar een linter en formatter?	
	Is je readme compleet en is er een license? Klopt o	die
	je package.json?	

Staan er geen onnodige files in je repo (.DS\_Store /

The project and

process are partially

documented, the repo

contains unneccessary

files and isn't

structured

The project and

process isn't on

GitHub and

undocumented

node modules)?

Quality

Code adheres to

standards by using linters

and formatters, docs

(including readme.md

and wiki) cover the

process and what the

project is and does

Code quality is

consistent and

enforced; docs are

more than useful

and professional.

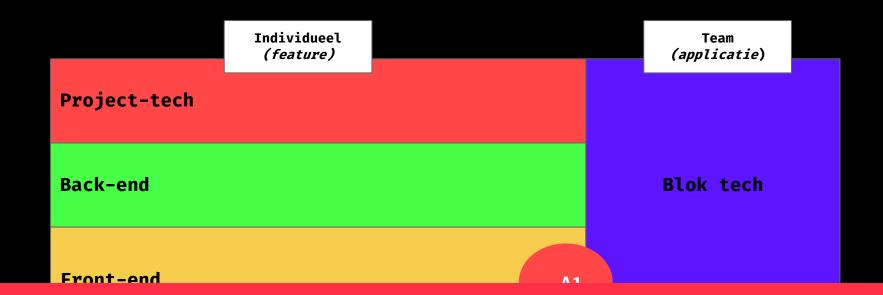
Code and docs both

read like great books

and the project is

structured logically.

ook met



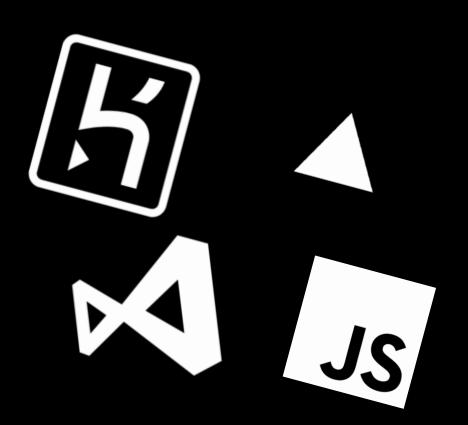
Note: Next week (5) we'll do a final peer review.

See it as a checklist.

## today

**I.Standup** 

II.Refactoring



# Refactoring

?

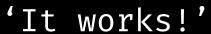
[...] a disciplined technique for restructuring an existing body of code, altering its internal structure without changing its external behavior.

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"];

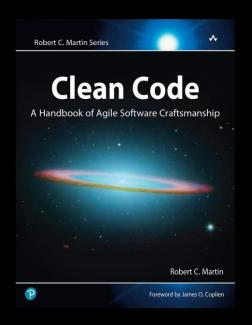
Good:

const DAYS_IN_WEEK = 7;
const DAYS_IN_MONTH = 30;

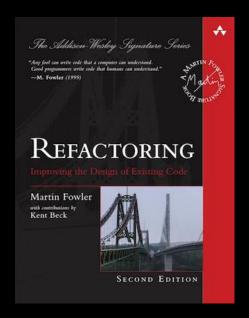
const SONGS = ["Back In Black", "Stairway to Heaven", "Hey Jude"];
const ARTISTS = ["ACDC", "Led Zeppelin", "The Beatles"];
```

Use consistent capitalization

#### books

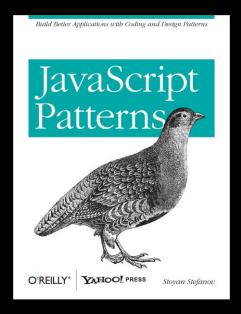


Clean Code
Robert C. Martin



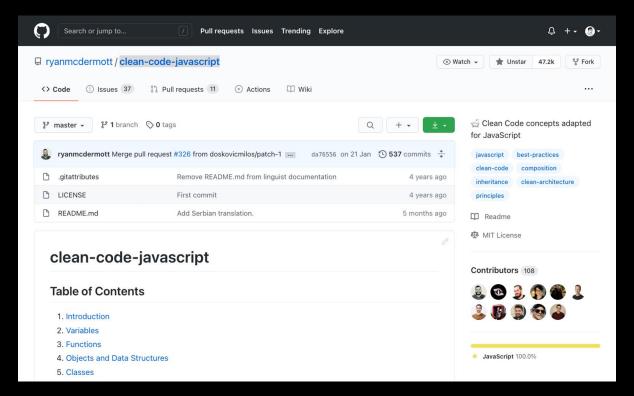
Refactoring

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?

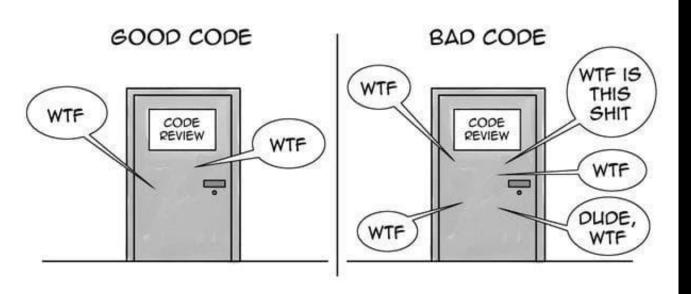
- To avoid hard to catch errors as much as possible.
- Other developers can understand what your code does
- To save time and avoid stress
- Clean written code *is* your documentation!

#### 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!