



MIT/Splash 2019

```
"""making software  
hard(ly work) """
```

```
try:  
    work()
```

```
except:  
    print("aaah!")
```



Making Software_Hard(**ly**, **Work**)

Splash 2019

Hannah & Tareq

IP: 10.15.256.14

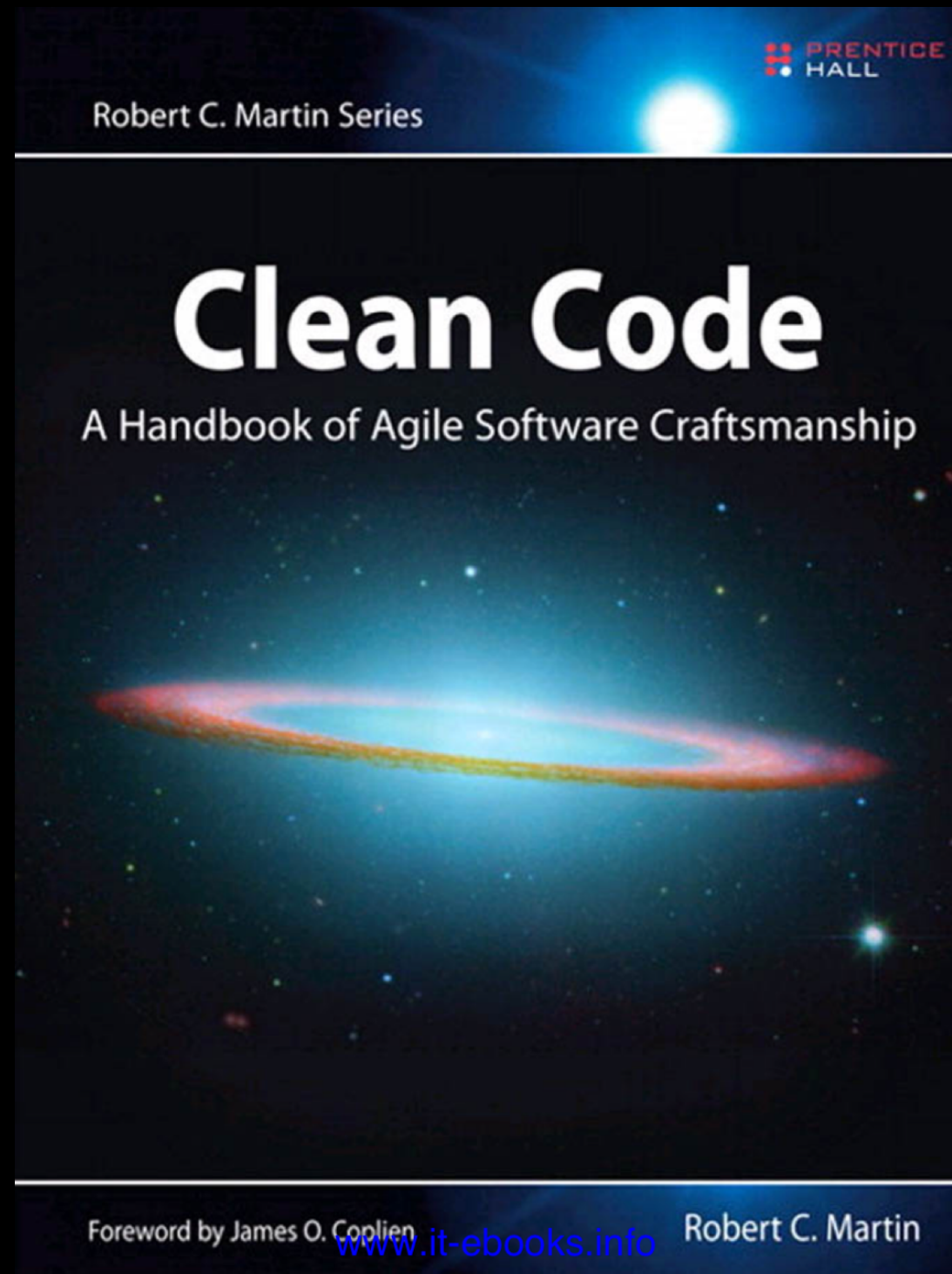
NOTE !important

**Although this class is filled with jokes and dAnK MemEz, you
surprisingly can learn a lot from it. ***

* You will also learn how to use cool lingo they like in Silicon Valley

One of the references we will disappoint today is:

Clean Code by Robert C. Martin



IP: 10.15.256.14

Can you see anything wrong with this code?

```
try: runtime = states[state][input_val]
except:
    try: runtime = states[state]["*"]
    except: raise UndefinedState
```

Can you see anything wrong with this code?

tareqdandachi / Turing-Machine-Simulator

Unwatch

1

Star

0

Fork

0

Code

Issues 0

Pull requests 0

Actions

Projects 0

Wiki

Security

Insights

Settings

Fixed the ugliest code I have ever written.

Browse files

master

tareqdandachi committed 9 days ago

1 parent 496b519

commit b4223e8ef4d06c868d4f5c81486e948d50e4a9a7

Showing 1 changed file with 8 additions and 4 deletions.

Unified

Split

12 main/turing.py

@@ -62,10	+62,14	@@ def decode_states(lines):
62	62	
63	63	def decode_state(states, state, input_val):
64	64	
65	-	try: runtime = states[state][input_val]
66	-	except:
67	-	try: runtime = states[state]["*"]
68	-	except: raise UndefinedState
65	+	if state not in states:
66	+	raise UndefinedState
67	+	
68	+	if input_val in states[state]:
69	+	return states[state][input_val]
70	+	
71	+	else:
72	+	return states[state]["*"]
69	73	
70	74	return runtime
71	75	
Σ		

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Some golden code here.

```
for (var i = 0; i < find_length([for (i of [0,0,0,0,0]) x]); i++) { // i < 5

    console.log(i)

}

function find_length(item) {

    n = [].length // = 0

    for (var i = 0; i < item.length; i++) {

        console.log([n])

        n += [n].length // += 1

    }

    return n //returns item.length

}
```

How to save storage when writing code

- a. **Never** use the return key, it's an extra character (or two sometimes)!!!
- b. **Never** tabulate (if possible)
- c. **Never** use comments, waste of **characters**.
- d. **Do** use very short variable names, like: a, b, c, etc.
you have 52 variable names that are **1 char** long ...
- e. **Do** use semicolons to separate literally all lines.
- f. **Do** use multiple nested **list** comprehensions as opposed to just for **loops**.

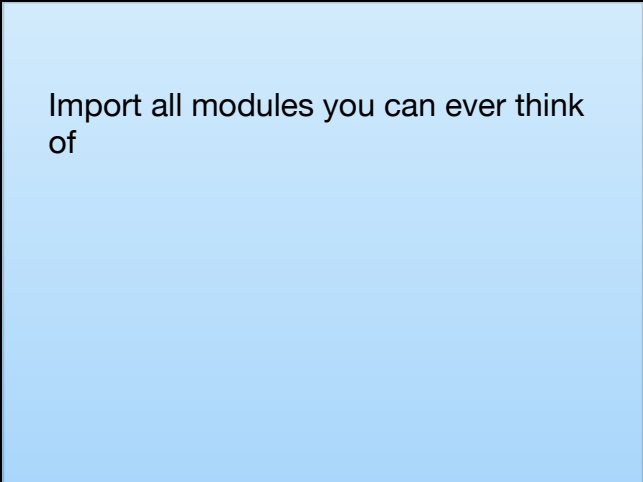
Minification



- jquery.min.js
- main.min.css
- site.min.html

Be forward thinking

Always keep in mind that your code will need to be modified later on.



Import all modules you can ever think of

Naming Variables








Naming Variables

1. Be Cryptic

Y0u d0n't w4nt p34p13 h4x1n6 u

Be Cryptic

2. Be FUN!

let   =  * ( +  +  + )

var    =   +  .  

Be Cryptic

3. Be short

Saves storage and can be quickly read.

Be Cryptic

4. Always use pre-defined names

Everybody, including the compiler, likes seeing

```
print(print.print(prInt) - prInt)
```

How to measure how good code is

How to measure how good code is

Number of iterations

How to measure how good code is

Number of modules included

How to measure how good code is

Every programmers favorite

How to measure how good code is

I wrote 72,459 lines of code last night

How to measure how good code is

I wrote 72,459 lines of code last night

Number of lines & time spent writing it

How to measure how good code is

Number of times compiler crashes

How to measure how good code is

Number of print statements

How to measure how good code is

Is it written in emacs or vim

:wq!

How to measure how good code is

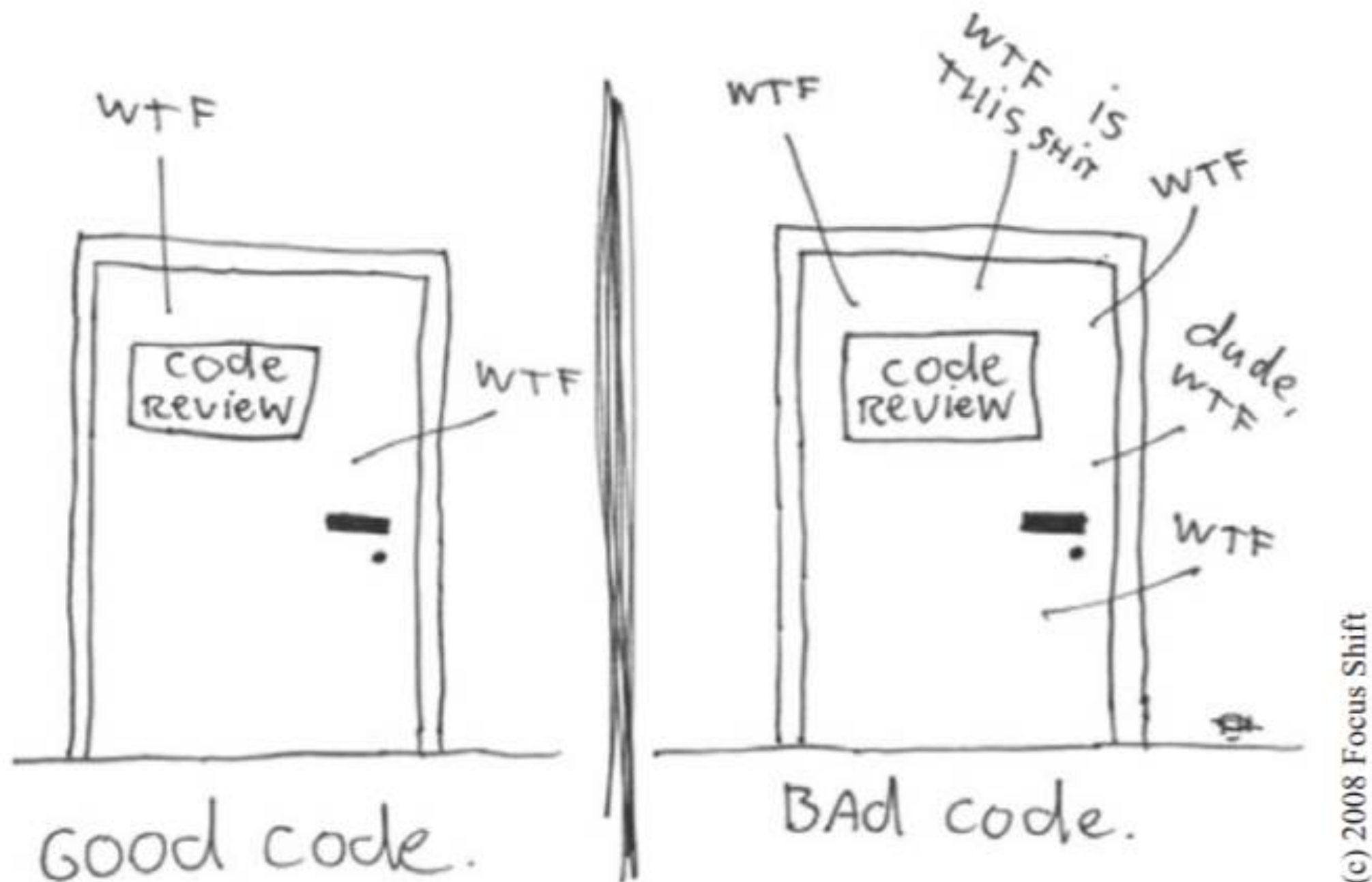
In my case: how hot the laptop runs

Thermal throttling

How to measure how good code is

How many nested string item things

The ONLY VALID MEASUREMENT
OF CODE QUALITY: WTFs/minute



(c) 2008 Focus Shift

Types

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ESOTERIC LANGS

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TrumpScript

White Space

Chef

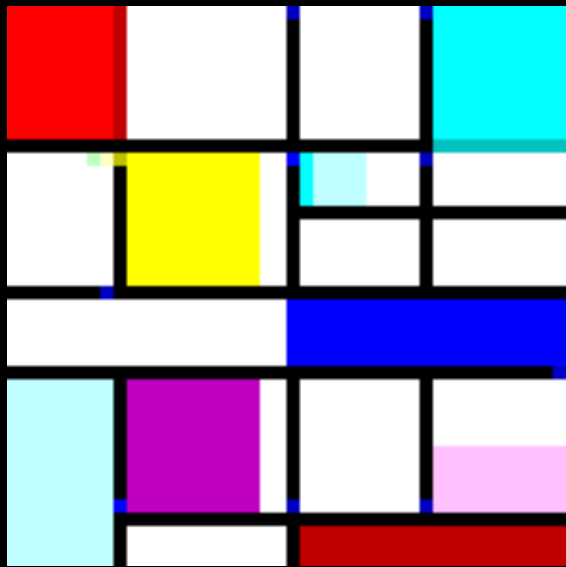
ESOTERIC LANGS

LOLCAT

JSFuck

[,], (,), !, and +

Binary Lambda
Calculus



Piet



Shakespear

The Infamous Hello World Program.

Romeo, a young man with a remarkable patience.

Juliet, a likewise young woman of remarkable grace.

Ophelia, a remarkable woman much in dispute with Hamlet.

Hamlet, the flatterer of Andersen Insulting A/S.

Act I: Hamlet's insults and flattery.

Scene I: The insulting of Romeo.

[Enter Hamlet and Romeo]

Hamlet:

You lying stupid fatherless big smelly half-witted coward!

You are as stupid as the difference between a handsome rich brave
hero and thyself! Speak your mind!

You are as brave as the sum of your fat little stuffed misused dusty
old rotten codpiece and a beautiful fair warm peaceful sunny summer's
day. You are as healthy as the difference between the sum of the
sweetest reddest rose and my father and yourself! Speak your mind!

You are as cowardly as the sum of yourself and the difference
between a big mighty proud kingdom and a horse. Speak your mind.

Speak your mind!

[Exit Romeo]

Unlambda

```
`r` `` `` `` `` `` `` `` `` `` `` `` .H.e.l.l.o. .w.o.r.l.d
```

LOLCAT

```
HAI 1.2
CAN HAS STDIO?
PLZ OPEN FILE "LOLCATS.TXT"?
    AWSUM THX
        VISIBLE FILE
    O NOES
        INVISIBLE "ERROR!"
KTHXBYE
```

Brainf*ck

```
+++++ [ >++++>++++>+++<<<- ] >+. >+. ++++++  
..+++ .>+. <<+++++. > .+++ .----- .-----.>+.
```

YEET

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Most important thing in
almost every single domain ever

Buzzwords!