The Elements of Style

hey hi hello

derek graham @deejaygraham

Style ?

```
struct group_info init_groups = { .usage = ATOMIC_INIT(2) };

struct group_info *groups_alloc(int gidsetsize){

    struct group_info *group_info;

    int nblocks;

    int i;


    nblocks = (gidsetsize + NGROUPS_PER_BLOCK - 1) / NGROUPS_PER_BLOCK;

    /* Make sure we always allocate at least one indirect block pointer */

    nblocks = nblocks ? : 1;

    group_info = kmalloc(sizeof(*group_info) + nblocks*sizeof(gid_t *), GFP_USER);

    if (!group_info)

        return NULL;

    group_info->ngroups = gidsetsize;

    group_info->nblocks = nblocks;

    atomic_set(&group_info->usage, 1);


    if (gidsetsize <= NGROUPS_SMALL)

        group_info->blocks[0] = group_info->small_block;

    else {

        for (i = 0; i < nblocks; i++) {

            gid_t *b;

            b = (void *)__get_free_page(GFP_USER);

            if (!b)

                goto out_undo_partial_alloc;

            group_info->blocks[i] = b;

        }

    }

    return group_info;


out_undo_partial_alloc:

    while (--i >= 0) {

        free_page((unsigned
```

IN THE INTEREST OF SAFETY
Please
DO NOT TALK TO DRIVER
WHILE BUS IS IN MOTION

90% done

PROCESS

extreme Programming *explained*

EMBRACE CHANGE

Kent Beck

are you XP?

XP Engineering Practices

- Continuous Integration
- Pair Programming
- Test Driven Development
- Simple Design
- Refactoring
- Collective Code Ownership
- Sustainable Pace

Pair<dev, dev>

MOTUL
MOTUL
PIRELLI
STi
STi

Navigator
Driver
MOTUL
MOTUL
PIRELLI
STi
STi

Driver
* reconstruction

* reconstruction
Navigator

“I have an idea,

give me

the keyboard”

Swarming

C#

Test Script

DB Admin

JSON

HTML

Deploy Script

“Swarming … is the first time we’ve felt like a genuine team instead of individuals all working for the same manager.”

– Our Team

Mob Programming

Days Without a Bills GUI Related Accident:
Last date of Retrospective: 03-16-2015
Monday Meeting
Capitalizable
Day
Hours
Notes
Chris - 6
Aaron - 5
Shipment #1
HPP
Must Have
Re-evaluate High Priority
I ♥ my Team
Hunter

“**All** the brilliant people,
working on the **same thing**,
at the **same time**,
in the **same space**,
and at the same **computer**.”

–Woody Zuill

coding&
design&
testing&
deployment

Mob = XP++

“Mobbing would be in the XP book (if only they'd thought of it)”

–Rachel Davies (Agile Coach)

!Mob

#Waste

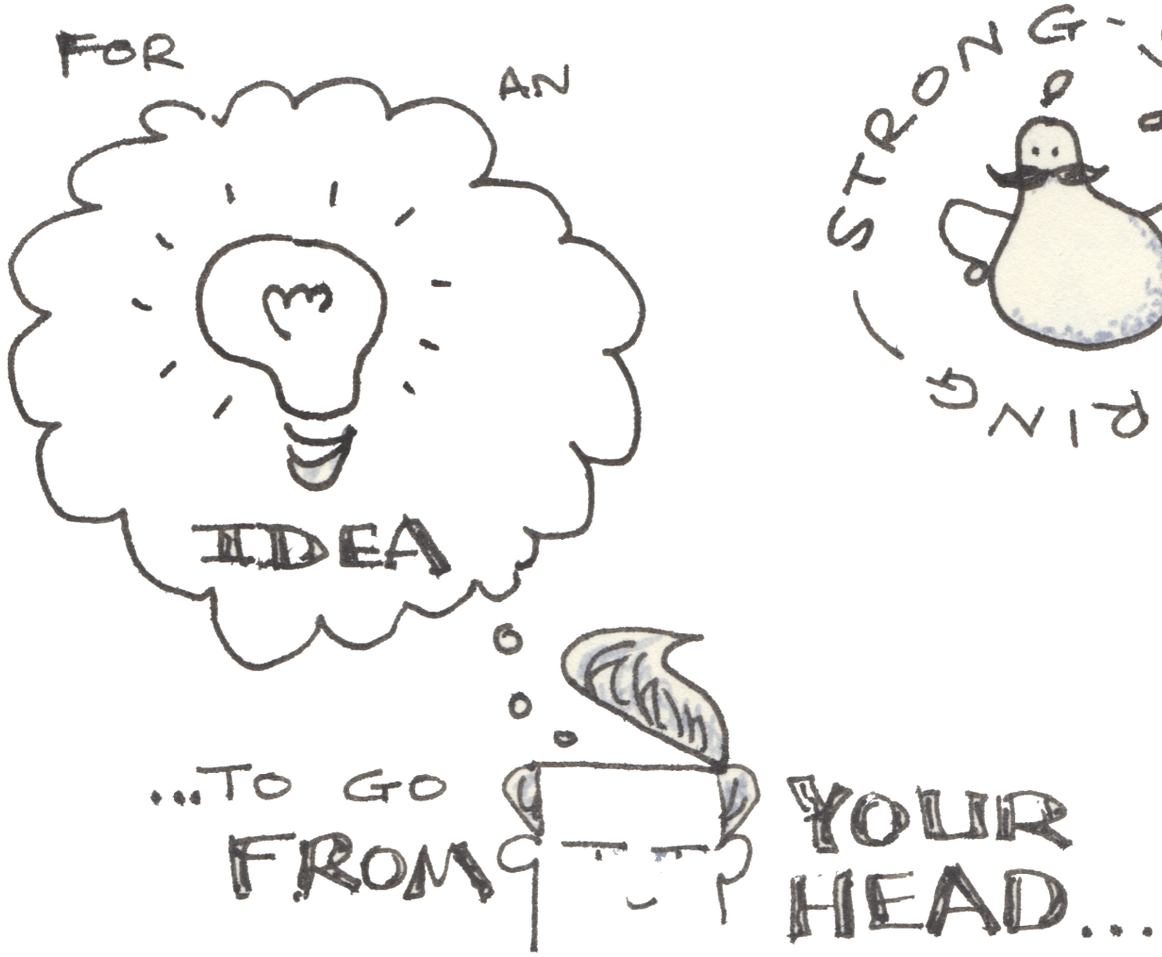
“We don’t have time to do it right...”

Strong Style Pairing

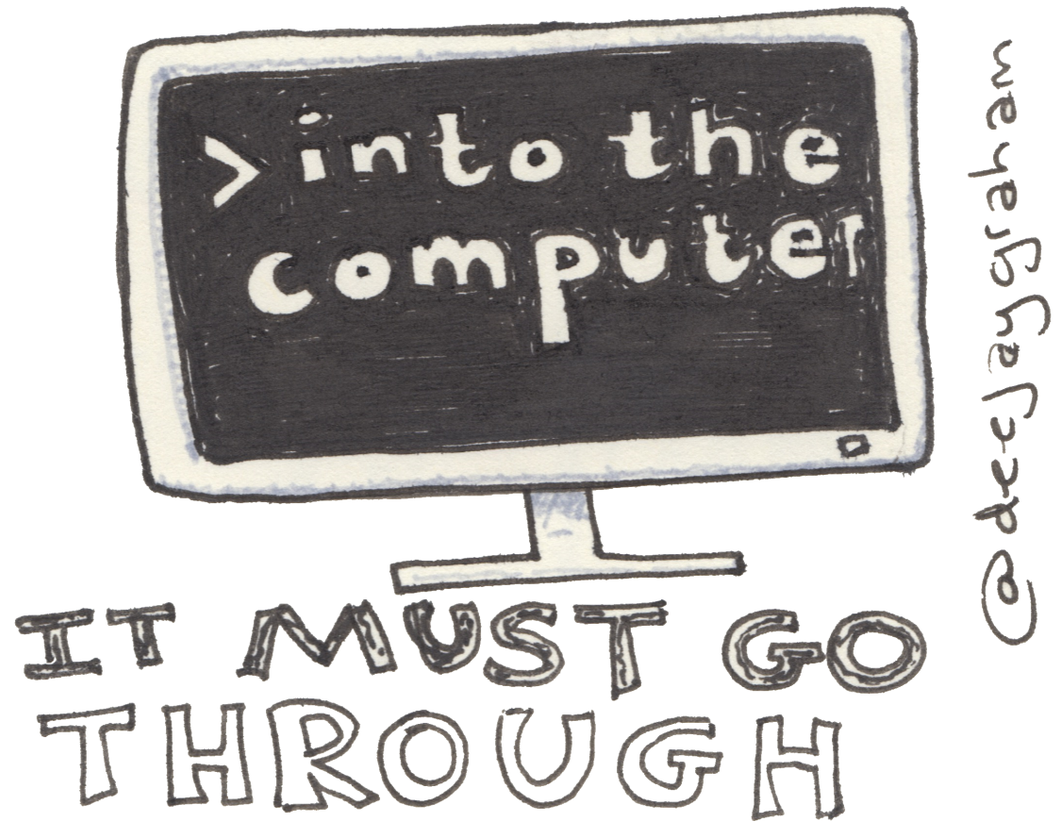
* reconstruction

“I have an idea,
give me
the keyboard...”

“I have an idea,
please take
the keyboard...”


FOR AN
IDEA
...TO GO
FROM
YOUR
HEAD...

STRONG-STYLE-PAIRING


>into the computer
IT MUST GO
THROUGH
@deejaygraham

SOMEONE
ELSE'S
HANDS

Pair.Key

Driver

~~Driver~~ Typist

Cortana for Code

1. Listen to the navigator
2. Translate that into code
3. There is no 3

Siri for Syntax

- Write the Code
- Talk about the Code
- Rollback?
- Patience
- Incomplete Understanding

Alexa for Algorithms

If you have
the **keyboard**,
you can't have
the **ideas**

Pair.Value

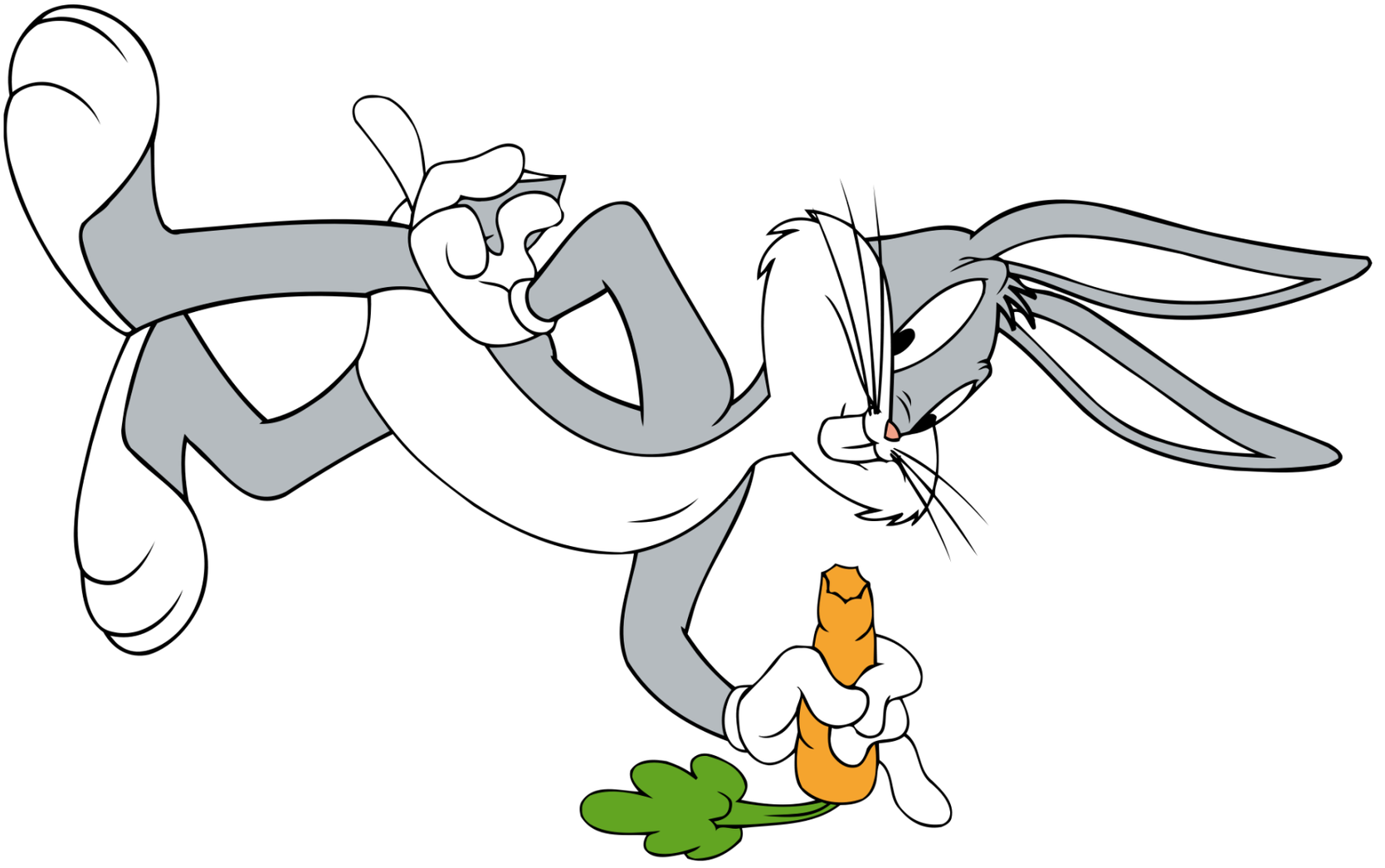
1. Collaborate & Discuss
2. What is the **next** step?
3. **Talk** to the Typist
4. **Park** other issues

* reconstruction

Why ?

Pairing

Do you ever
have bugs?



Do you ever have **typographic anomalies?**

The Pragmatic Programmer

from journeyman
to master

Andrew Hunt
David Thomas

Foreword by Ward Cunningham

Talk with a Duck

```
You are now in an online chat room with:

  _____       _                  _           _
 /  __ \     | |                | |         | |
 | /  \/_   _| |__   ___ _ __ __| |_   _  ___| | __
 | |   | | | | '_ \ / _ \ '__/ _` | | | |/ __| |/ /
 | \__/\ |_| | |_) |  __/ | | (_| | |_| | (__|   <
  \____/\__, |_.__/ \___|_|  \__,_|\__,_|\___|_|\_\
         __/ |
        |___/

- Cyberduck is a mock Rogerian psychotherapist (for debugging).
- The original concept program was described by Joseph Weizenbaum in 1966.
- Terminal themed implementation was created by Norbert Landsteiner in 2005.
- This debugging themed implementation by Ben Holland in 2017.


CYBERDUCK: Please tell me what's been bothering you about your code.
YOU:
```

References

Cyberduck is based on work by Joseph Weizenbaum and Norbert Landsteiner.

- Weizenbaum, Joseph. **ELIZA – A Computer Program For the Study of Natural Language Communication Between Man and Machine.** *Communications of the ACM*, Volume 9, Issue 1, pages 36-45, January 1966.
- Elizabot: http://www.masswerk.at/elizabot

Talk with a Duck

```
   \____/\__, |_.__/ \___|_|  \__,_|\__,_|\___|_|\_\
         __/ |
        |___/

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CYBERDUCK: Please tell me what's been bothering you about your code.
YOU:  it's just not SOLID
CYBERDUCK: What does that suggest to you ?
YOU:  I suck
CYBERDUCK: Can you elaborate on that ?
YOU:  my software skills are not good
CYBERDUCK: Does that suggest anything else which belongs to you ?
YOU:  my life in general
CYBERDUCK: Why do you say your life in general ?
YOU:  it's all going wrong
CYBERDUCK: Lets discuss further why your software skills are not good.
YOU:  no, I'm going back to VB
CYBERDUCK: You are being a bit negative.
YOU:
```

References

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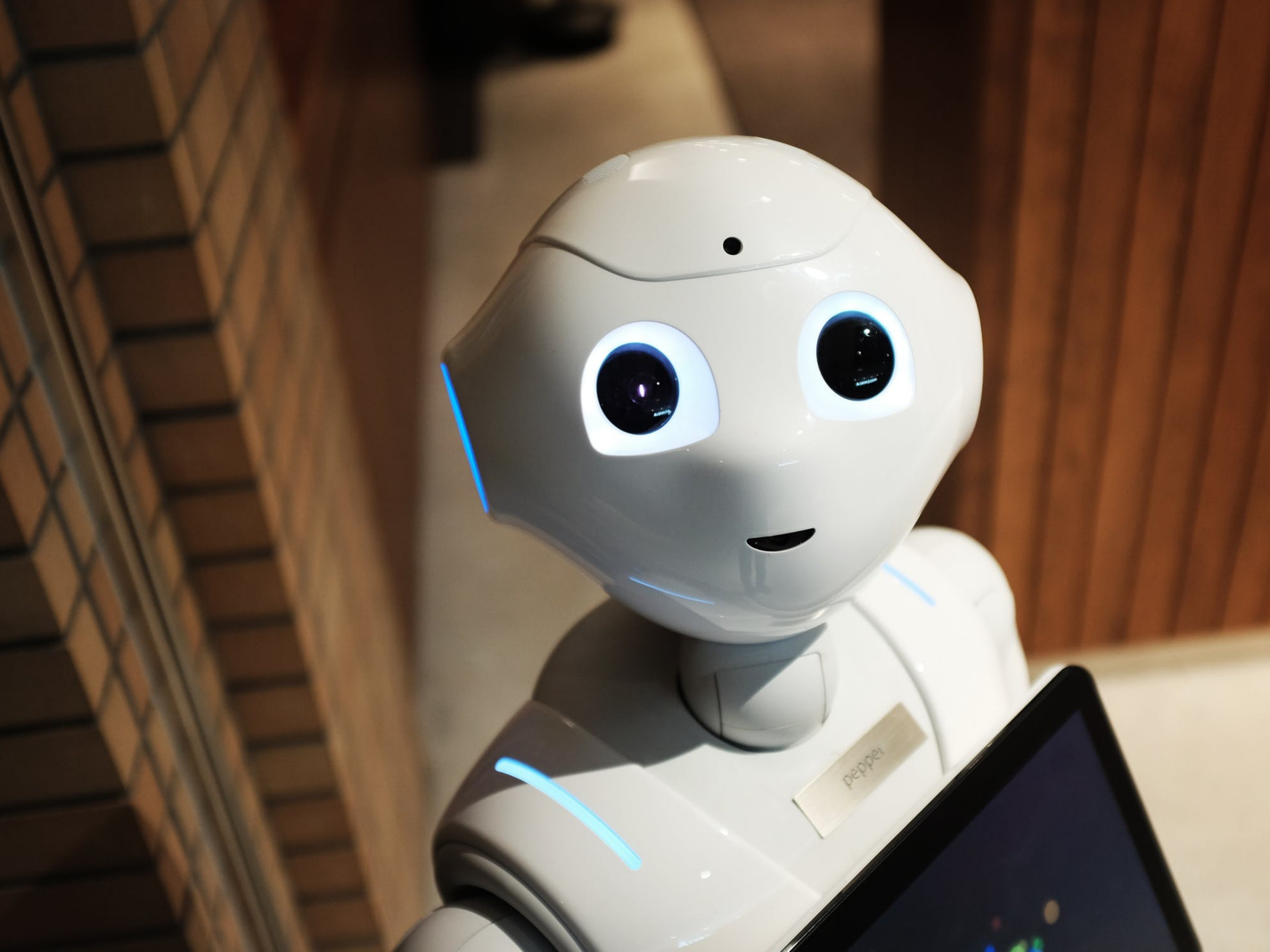
dev/null

Finding the right level

- Abstractions
- Language syntax
- Files, line numbers
- Key presses

```
7    public static string ToSoundex(this string tex
8    {
9        if (string.IsNullOrEmpty(text))
10           return string.Empty.PadRight(SoundexLe
11
12       var encoded = new StringBuilder();
13
14       // keep first letter
15       encoded.Append(text.First());
16
17       int encodeValue = NotFound;
18       int lastValue = NotFound;
19
20       foreach(char letter in text.ToLower().Skip
21       {
22           encodeValue = MapCharToSoundexCode(let
```


pepper

Try Mobbing

Navigator

Navigator

Driver/Typist

Navigator

Navigator

Navigator

Driver/Typist

Navigator

ONE
LAST
THING
Intriguing Notion

https://ti.to/ne-bytes/november-2019-ne-bytes

That's all Folks!