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The one with compiler
always wins

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This talk

- ❑ How the programmer's power works
- ❑ We all have more power than we think
- ❑ How to use that power

Background

WHY DO YOU LIKE FUNCTIONAL PROGRAMMING SO MUCH? WHAT DOES IT ACTUALLY GET YOU?

TAIL RECURSION IS ITS OWN REWARD.





Feature: Google Search

In order to gain more knowledge

As an internet user

I want to be able to find information through Google

Scenario: Search finds results

✓ Given I have navigated to the Google Search page

✓ When I search for "MYOB"

✓ Then I see results

1 scenario (1 passed)

3 steps (3 passed)



Error List

▼ 17 Errors | 0 Warnings | 0 Messages

	Description
✖ 1	Internal Compiler Error: stage 'COMPILE' symbol
✖ 2	Internal Compiler Error: stage 'COMPILE' symbol
✖ 3	Internal Compiler Error: stage 'COMPILE' symbol
✖ 4	Internal Compiler Error: stage 'COMPILE' symbol
✖ 5	Internal Compiler Error: stage 'COMPILE' symbol
✖ 6	Internal Compiler Error: stage 'COMPILE' symbol
✖ 7	Internal Compiler Error: stage 'BIND' symbol
✖ 8	Internal Compiler Error: stage 'TRANSFORM' symbol
✖ 9	Internal Compiler Error: stage 'TRANSFORM' symbol
✖ 10	Internal Compiler Error: stage 'TRANSFORM' symbol
✖ 11	Internal Compiler Error: stage 'TRANSFORM' symbol

Error List | Output | Find Symbol Results

In control



**I decide
over my time**



I decide
over what is
possible

```
    $queryString = '';  
    if (isset($components['query'])) {  
        $queryString = http_build_query($components['query']);  
    }  
    if ($query) {  
        $queryString = array_replace($qs, $query);  
        $queryString = http_build_query($queryString);  
    } else {  
        $queryString = $qs;  
    }  
    elseif ($query) {  
        $queryString = http_build_query($query);  
    }  
    $server['REQUEST_URI'] = $components['path'] . $queryString;  
    $server['QUERY_STRING'] = $queryString;  
    return self::createRequestFromFactory($server);  
}
```

• Sets a callable able to create a Request instance.
• This is mainly useful when you need to override the default behavior
• to keep BC with an existing system. It should be used for
• other purpose.
• @param callable|null \$callable

I decide
who knows
about it



I decide
over the
quality level



WRONG

The team decides



The product owner decides



Consequences of being “too nice”

Feature creep, making us break our schedule, which in the long run makes us look bad to management as we never “get anything done”

Being overly optimistic about how quick something will be to complete

Bad, fast solutions -> unhappiness and more overtime later. Low salaries (not everywhere, I know)

Not sharing concerns and fears with others isn't considerate.
It robs them of opportunity and hurts us both long term

You are the expert

We, developers, who know how the works is done, need to find ways to communicate with non-developers which makes sense to them

The manager decides





We are our own prison guards



And if I'm not a
programmer?

Trust and respect

Understanding



Mob programming

Programming is complex.

**Working as a programmer
though...**

Comfortable environment



Safe
environment



Feels good

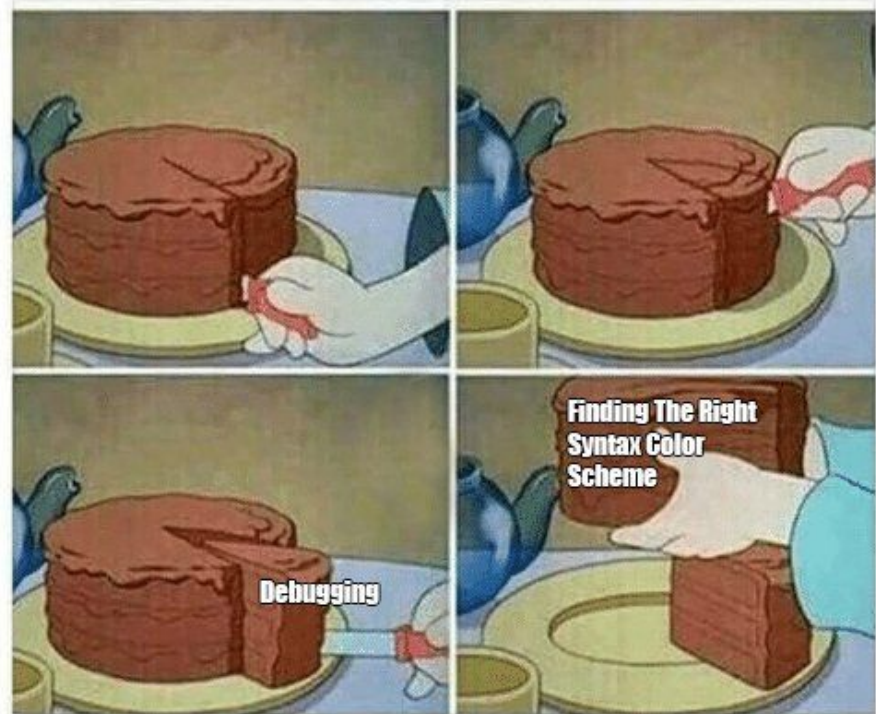


Playing work life on difficulty easy



How are you
spending your
time?

How I spend my time:



Should you quit
your job?



<http://keysleft.com/>

That means, in your remaining lifetime you have these left in your hands:

- **146,188,782** Keystrokes Left
- **1,044,205** Tweets Left
- **48** Novels Left
- **292** Computer Programs Left
- **14,618** Love Letters Left

Or

- **730,943** Emails to your boss left



BUSINESS NEWS OCTOBER 10, 2018 / 5:12 AM / 4 MONTHS AGO

Amazon scraps secret AI recruiting tool that showed bias against women

Jeffrey Dastin

8 MIN READ



SAN FRANCISCO (Reuters) - Amazon.com Inc's (AMZN.O) machine-learning specialists uncovered a big problem: their new recruiting engine did not like women.

Microsoft deletes 'teen girl' AI after it became a Hitler-loving sex robot within 24 hours



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By **Helena Horton**

24 MARCH 2016 • 3:37PM

day after Microsoft introduced an innocent Artificial

MORE STORIES



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Is there a way to block a specific person in a [@SlackHQ](#) team from DMing me or do I just need to leave the whole group?

 **Slack** 
@SlackHQ

There's no way block DMs, sorry! We're focused on optimizing how teams work together, where a block feature isn't so needed.


 4 5:48 PM - Aug 28, 2016 

 [See Slack's other Tweets](#) 

 **Anna Marie Clifton** @TweetAnnaMarie · Aug 20, 2016 

Design principal: When building a new feature, you should ALWAYS think about spam and stalker ex's.

 **Anna Marie Clifton**
@TweetAnnaMarie

Eg—a friend's abusive ex has been sending her \$1 on [@SquareCash](#) regularly for months... cause he can add a message & she can't block that.

 358 11:31 PM - Oct 22, 2016 

 317 people are talking about this 

Most unethical code didn't start
out that way



The absence of malice doesn't
mean the absence of harm
- @spivackjameson

The past few years

- ❏ GDPR
- ❏ Cambridge Analytica
- ❏ Credit scores in China

It used to be governments who had access to data about you but nowadays we voluntarily shed a trail of data after us into commercial interests

- Edward Snowden

Datensparsamkeit

<https://www.martinfowler.com/bliki/Datensparsamkeit.html>

Democracy and peace

I can always choose, but I ought to
know that if I do not choose, I am
still choosing

- Jean-Paul Sartre



It's easier to get a new job than it is
to get back your self respect
- Gitte Klitgaard

Summary

You have more power than you think.

If you don't acknowledge that you have the power, you might not see that you're making the choice to do nothing.

Do good by yourself, and if you have the energy do good by society.

THANKS

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