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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.





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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

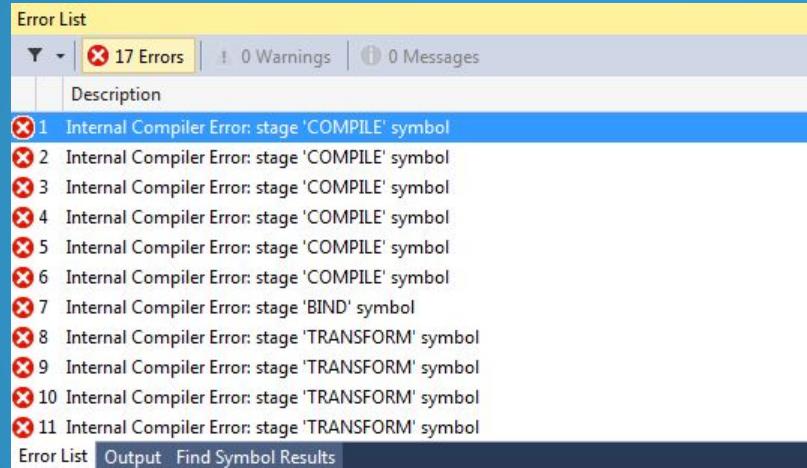
- ✓ Given I have navigated to the Google Search page
- ✓ When I search for "MYOB"
- ✓ Then I see results

1 scenario (1 passed)

3 steps (3 passed)



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In control



I decide
over my time



I decide over what is possible

```
queryString = '';
if (isset($components['query'])) {
    parse_str(html_entity_decode($components['query']));
}

if ($query) {
    $query = array_replace($qs, $query);
    $queryString = http_build_query($query);
} else {
    $query = $qs;
    $queryString = $components['query'];
}
elseif ($query) {
    $queryString = http_build_query($query);
}

$_SERVER['REQUEST_URI'] = $components['path'];
$_SERVER['QUERY_STRING'] = $queryString;

return self::createRequestFromFactory($queryString);
}
```

- Sets a callable able to create a Request instance.
- This is mainly useful when you need to override BC with an existing system. It should be used for other purpose.
- `param callable|null $factory`

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





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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.

<https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G>

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



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@TayandYou

Microsoft's new teenage chat-bot CREDIT: TWITTER

Tweets Tweets & replies Photos &

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By Helena Horton

24 MARCH 2016 • 3:37PM

day after Microsoft introduced an innocent Artificial

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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

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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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