

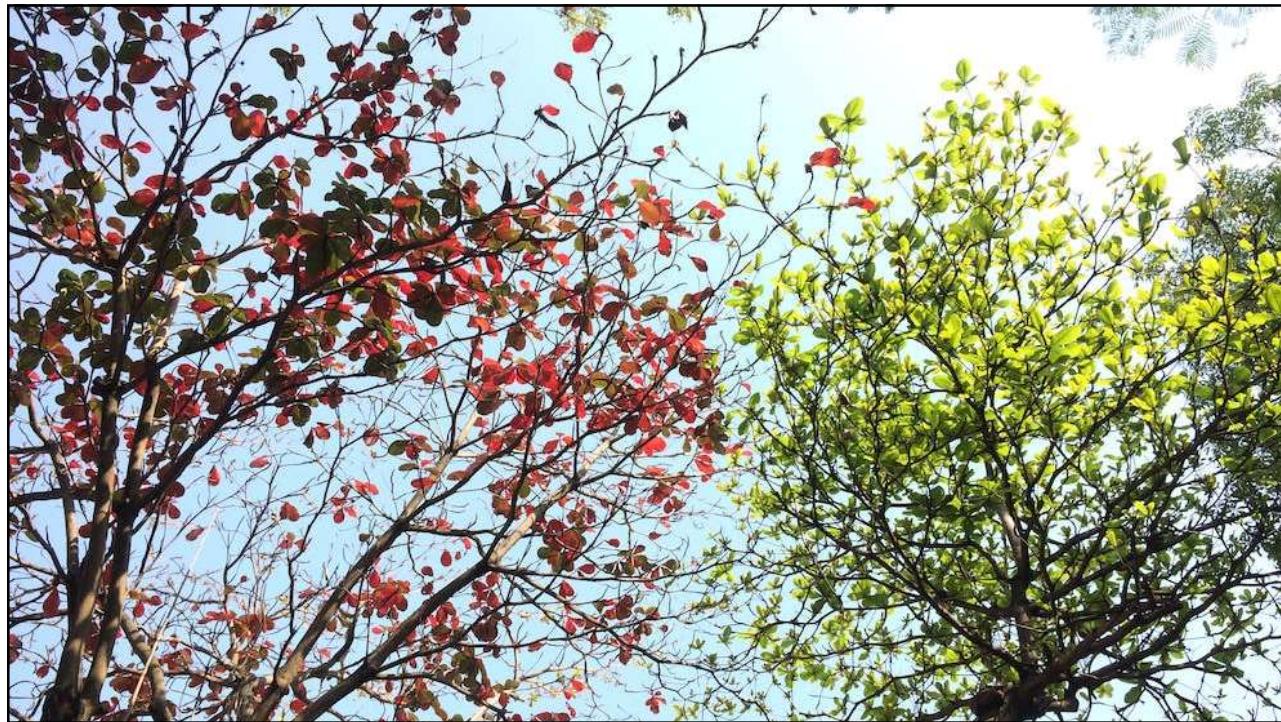
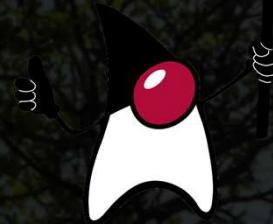
# Braving the Change

Recalibrating to new realities

Tom Cools

@TCoolsIT

[www.tomcools.be](http://www.tomcools.be)



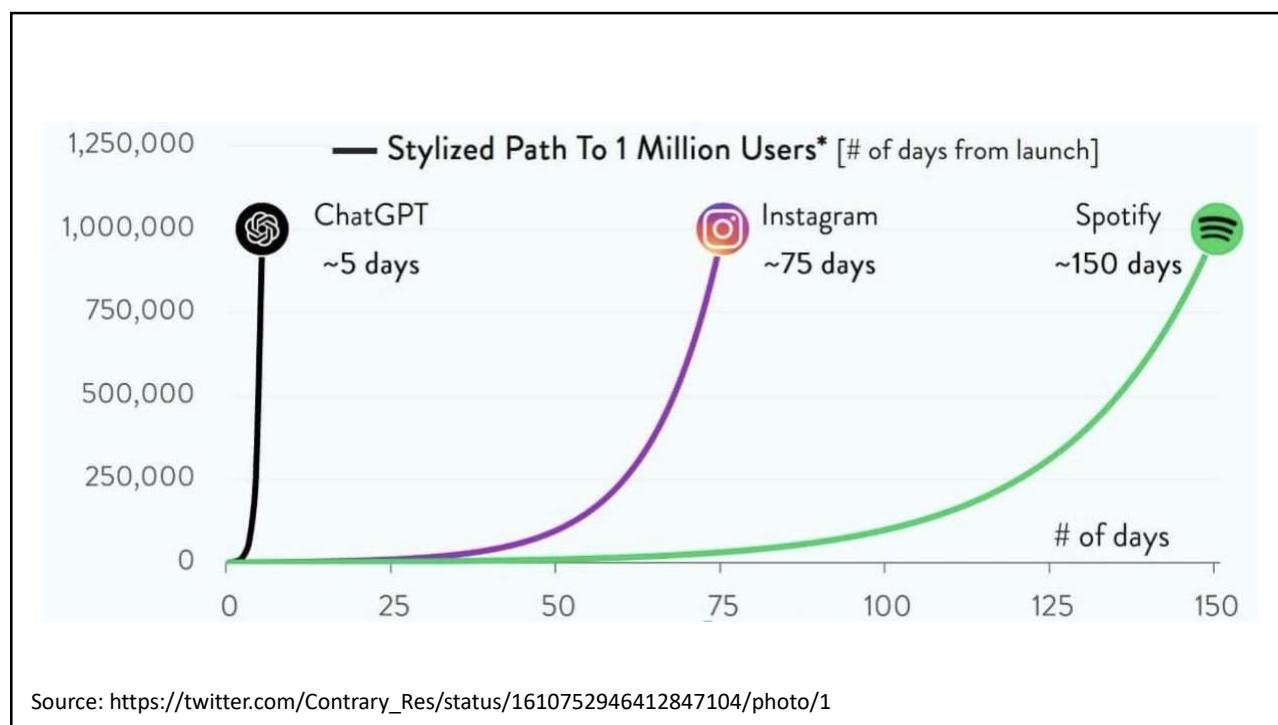
**"Half-Life is the time required for a quantity to reduce to half its initial value."**

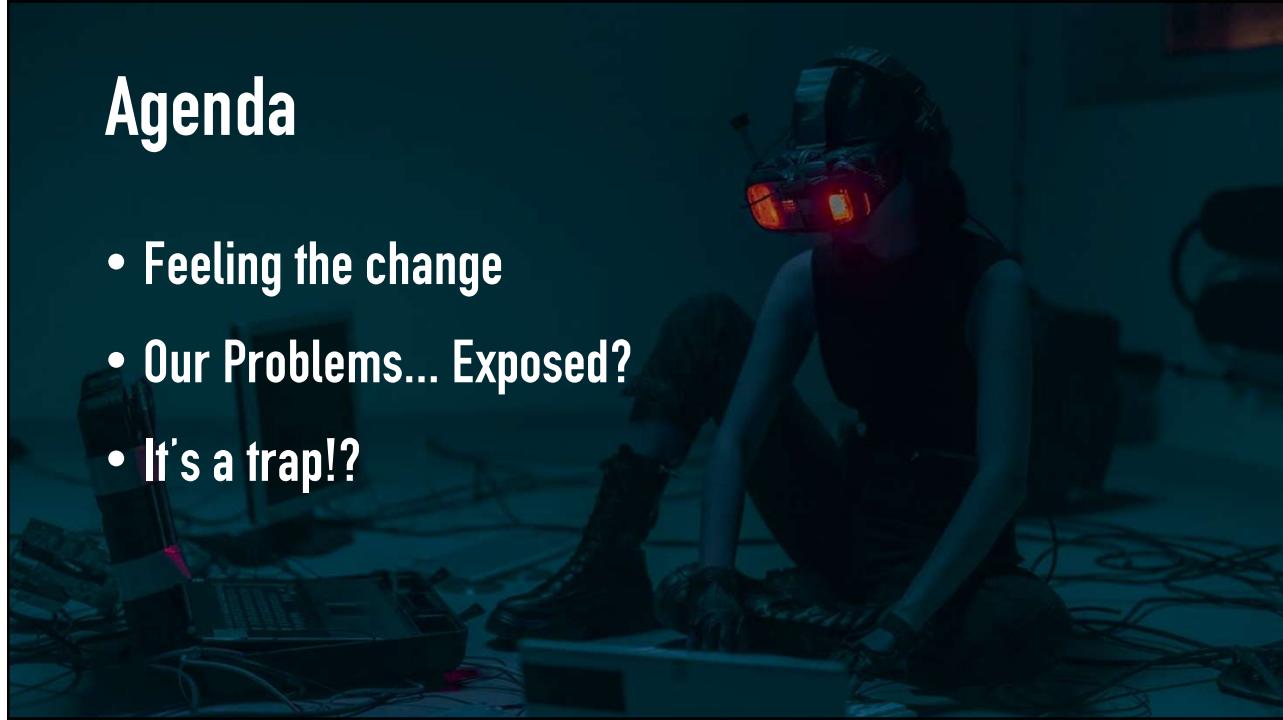
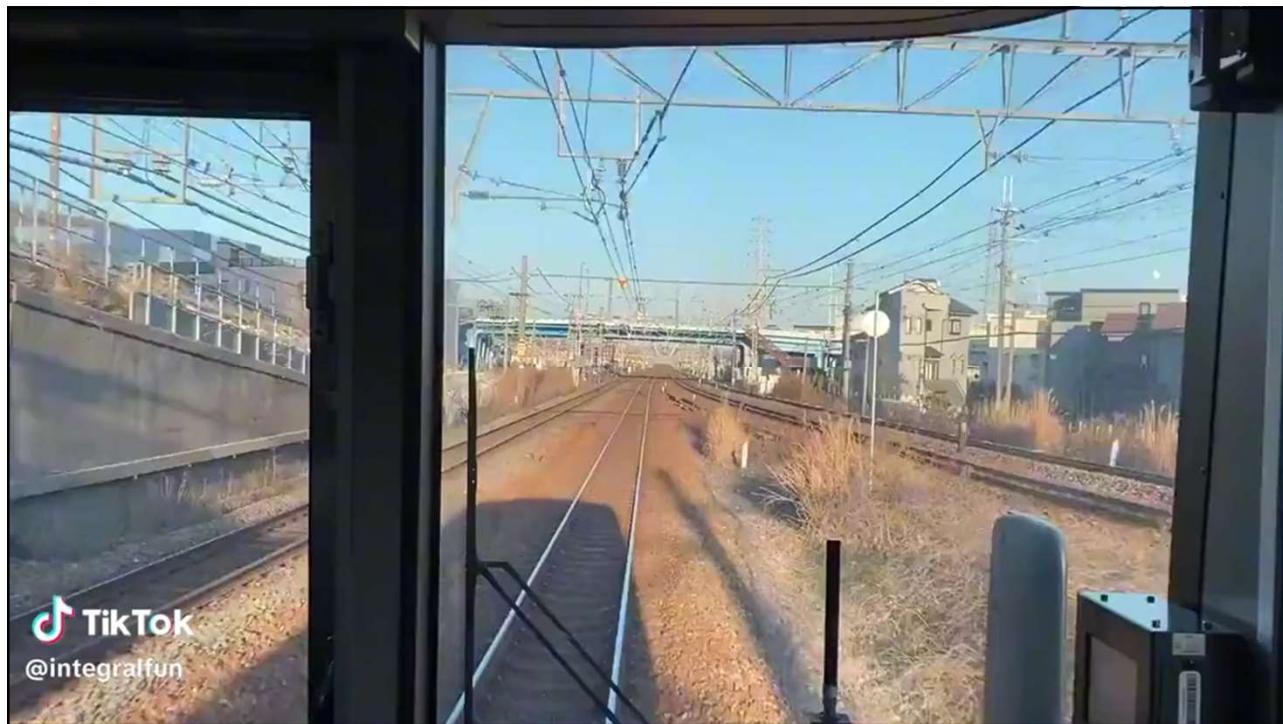


The **Half-Life** of relevant knowledge in the IT-Sector:

**2 to 5 years**





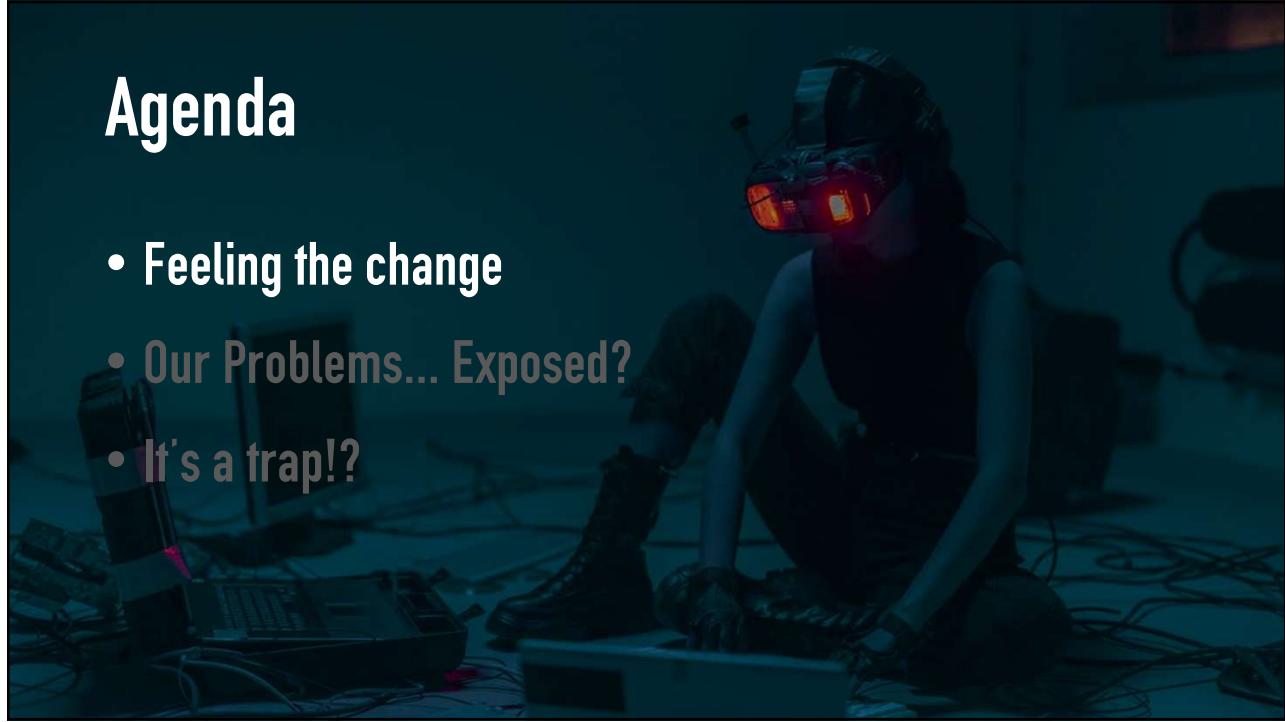


# Agenda

- Feeling the change
- Our Problems... Exposed?
- It's a trap!?

# Agenda

- Feeling the change
- Our Problems... Exposed?
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r/blender • 2 mo. ago  
by Sternsafari

I lost everything that made me love my job through Midjourney over night.

Source: [https://www.reddit.com/r/blender/comments/121lhfq/i\\_lost\\_everything\\_that\\_made\\_me\\_love\\_my\\_job/](https://www.reddit.com/r/blender/comments/121lhfq/i_lost_everything_that_made_me_love_my_job/)

[← All Open Letters](#)

# Pause Giant AI Experiments: An Open Letter

We call on all AI labs to immediately pause for at least 6 months the training of AI systems more powerful than GPT-4.

Signatures

**27084**

Add your signature

PUBLISHED

March 22, 2023

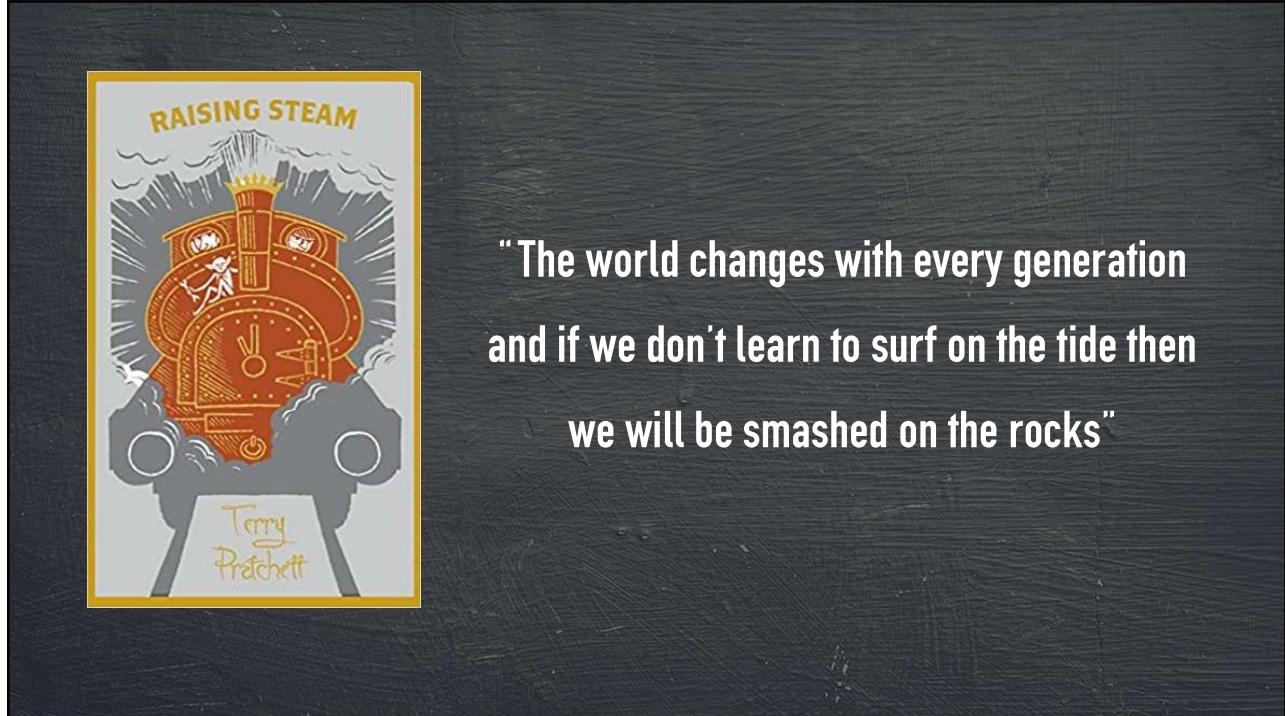


Our  
Brains  
Love  
Familiarity



The  
Neurological  
Levels  
Dilts Pyramid





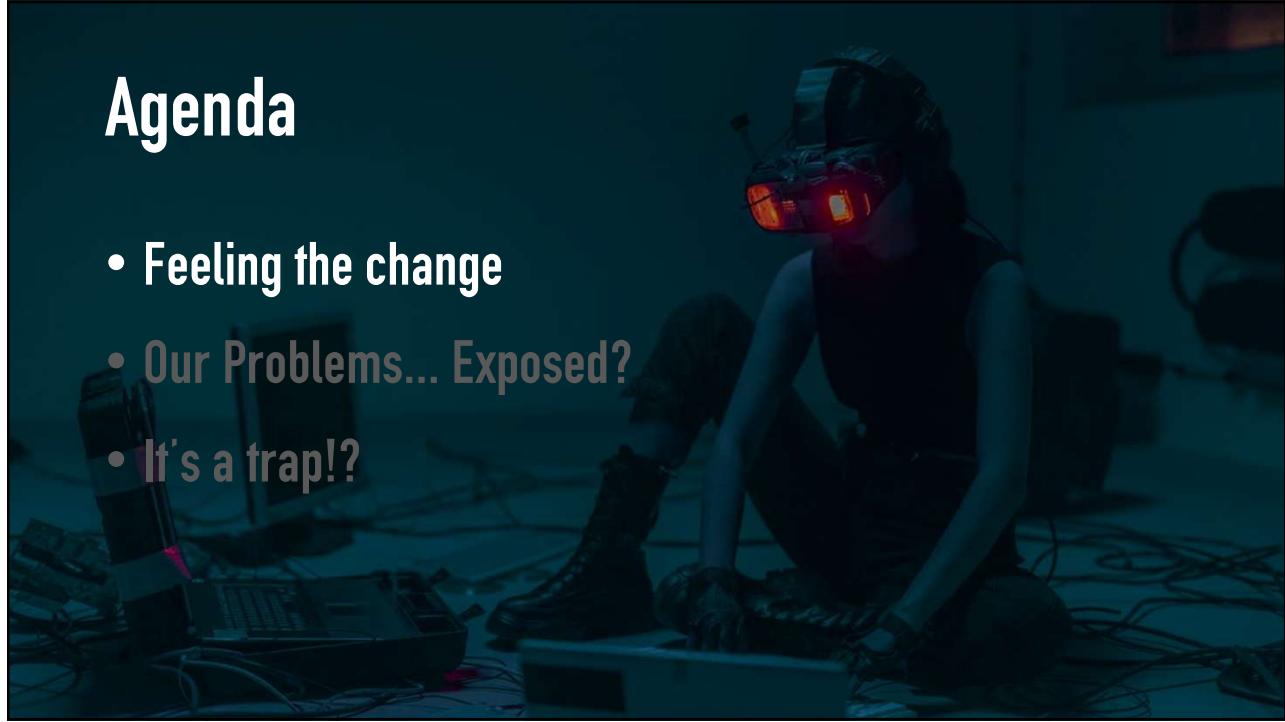
# Who Moved My Cheese?



Image source: <https://www.linkedin.com/pulse/who-moved-my-cheese-francois-fourie/>

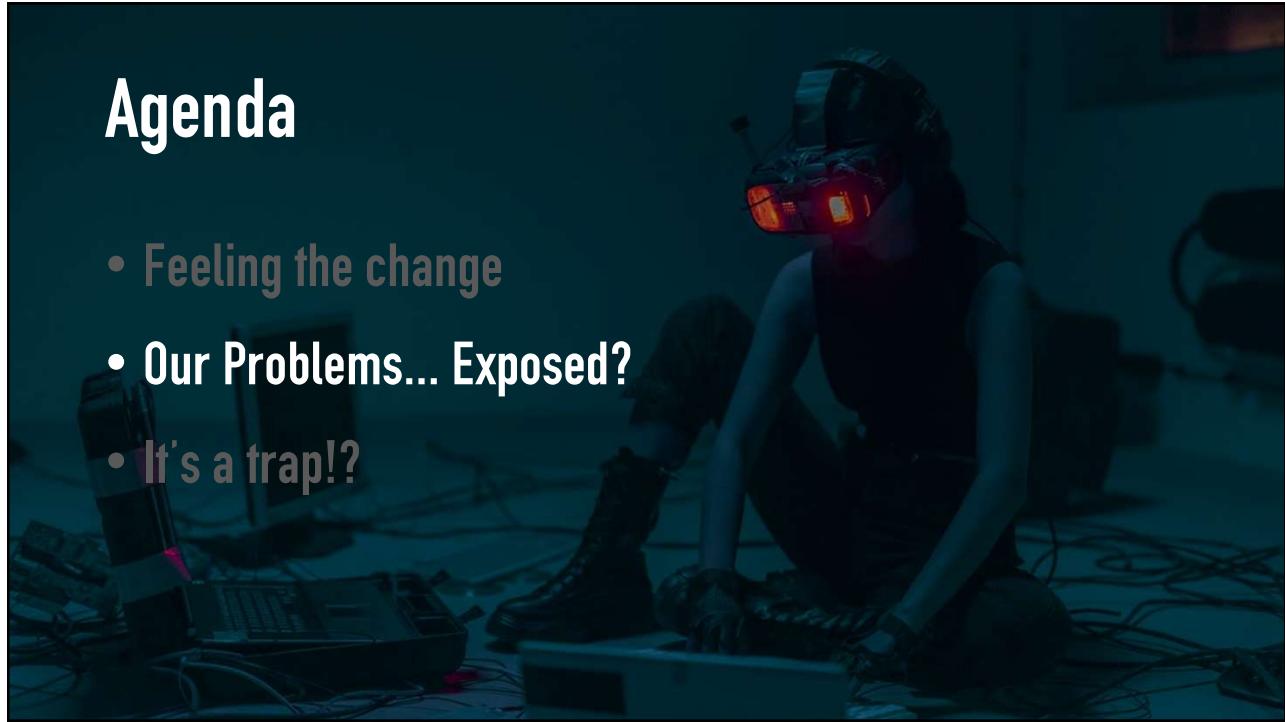
# Agenda

- Feeling the change
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# Agenda

- Feeling the change
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# New York City school officials block access to controversial artificial intelligence ChatGPT to stop students generating essays

Posted Sun 8 Jan 2023 at 3:19am



Source: <https://www.abc.net.au/news/2023-01-08/artificial-intelligence-chatgpt-chatbot-explained/101835670>

According to reports, GPT-4 achieved a score at the 93rd percentile on an SAT reading exam and the 89th percentile on an SAT math test. Furthermore, it also performed well on other tests, achieving an 88% score on the LSAT, an 80% score on the GRE quantitative, and a remarkable 99% on the GRE Verbal. 15 mrt 2023



livemint.com

<https://www.livemint.com/news/world/90-in-bar-ex...> ::

90% in Bar Exam, 88% in LSAT: GPT-4 beats 90% of humans ...



[← Foojay Today](#)

[Java Beginner](#) [Java Core](#)

## Foojay Developer Certification: Measure Skills!

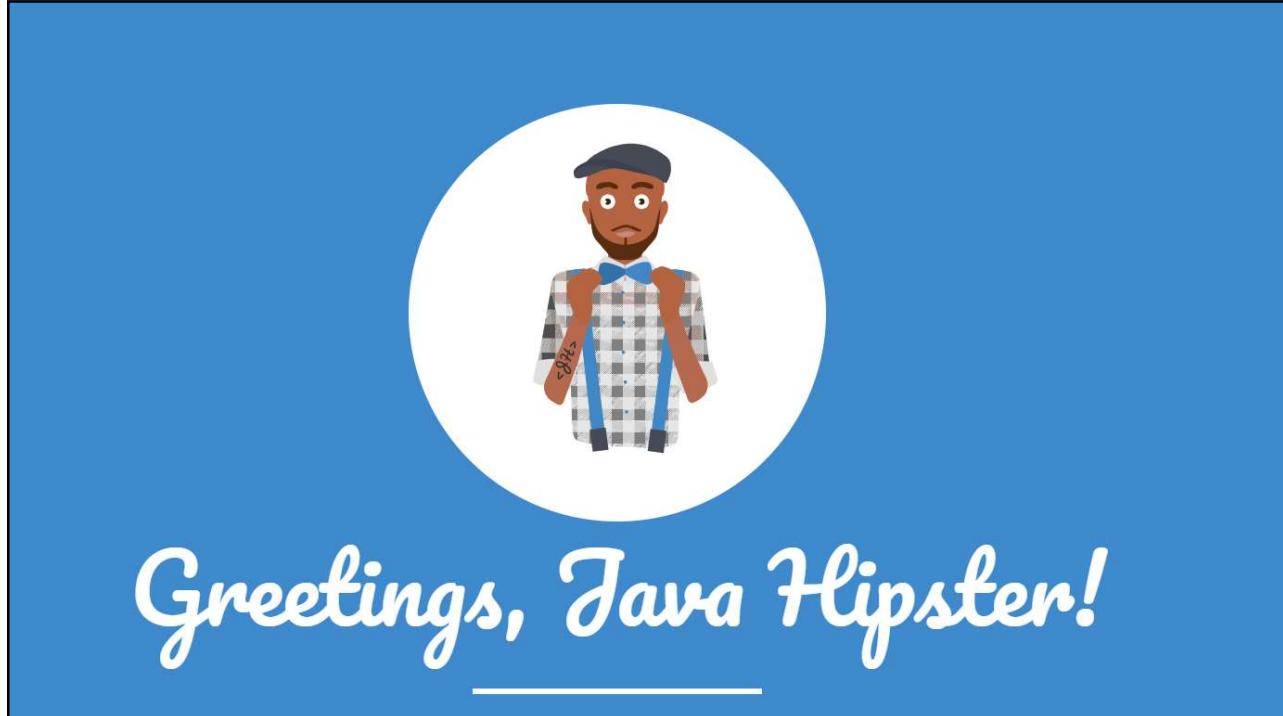
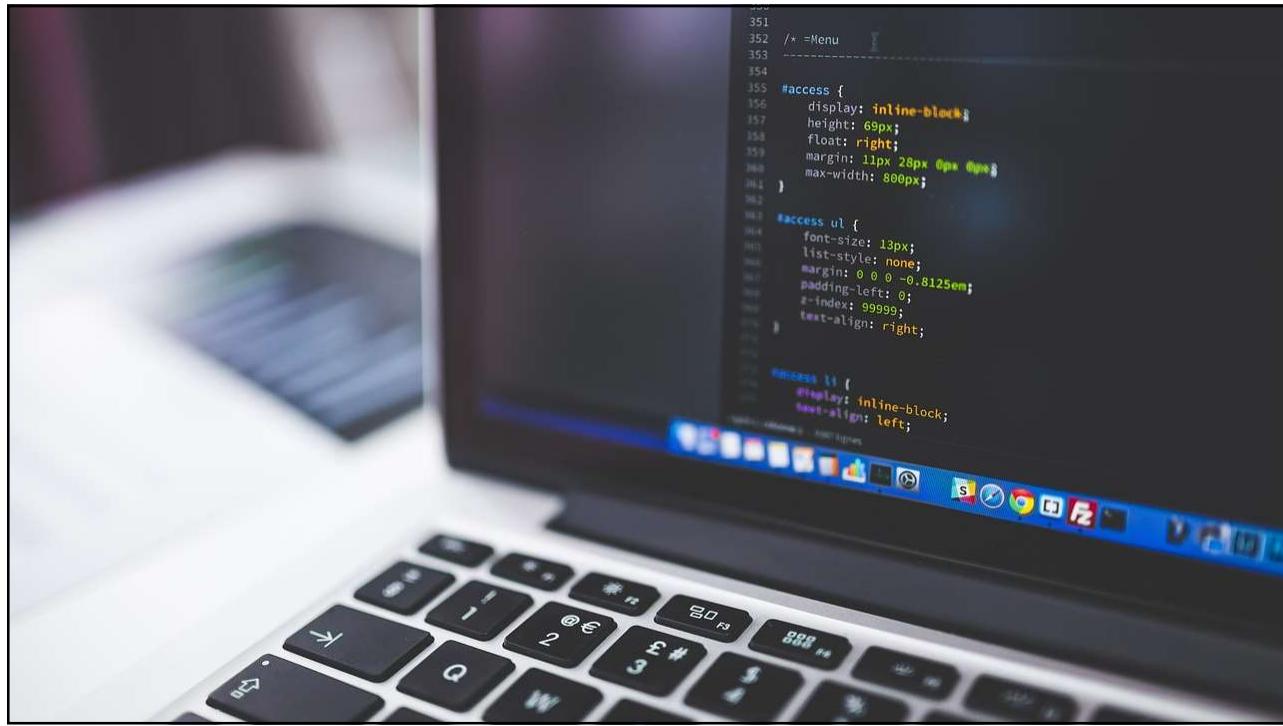
May 23, 2023

*Learn the why and how of a group of enthusiastic people implementing a new sort of developer certification that objectively measures dev skills. We also invite you to join our initiative if you're interested via #certification on the Foojay slack.*



Author  
**Roy Wasse**  
Co-Founder and Managing Director at OpenValue  
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**openrewrite/rewrite**

Automated mass refactoring of source code.



83 Contributors

246 Issues

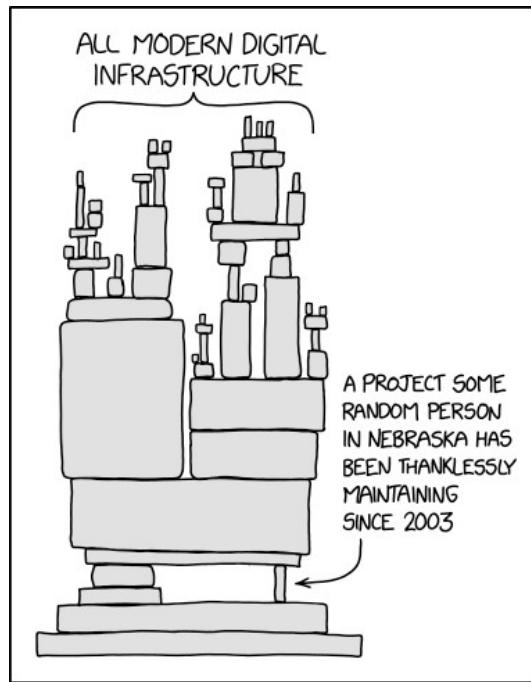
24 Discussions

1k Stars

147 Forks



14



Marit van Dijk

Keep Your Dependencies in Check

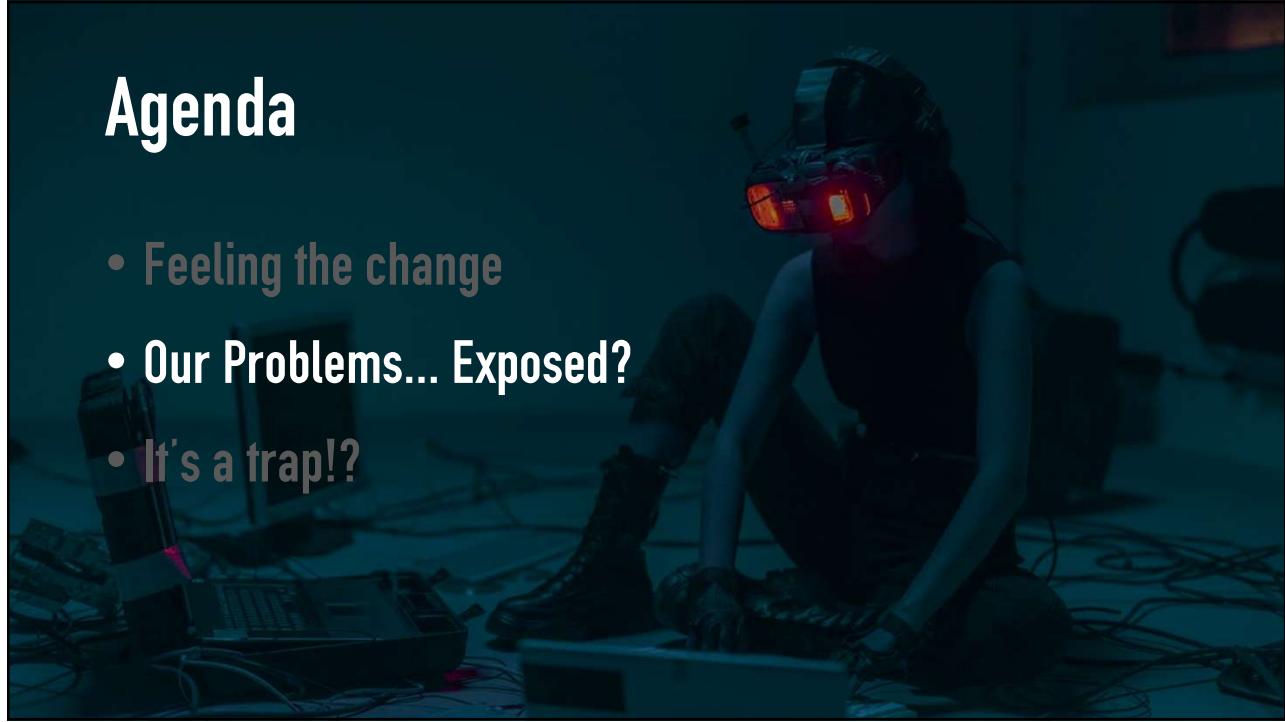
JUNE  
20-23

JAVAPRO # JCON2023 [www.jcon.one](http://www.jcon.one)

JCON EUROPE 2023 COLOGNE

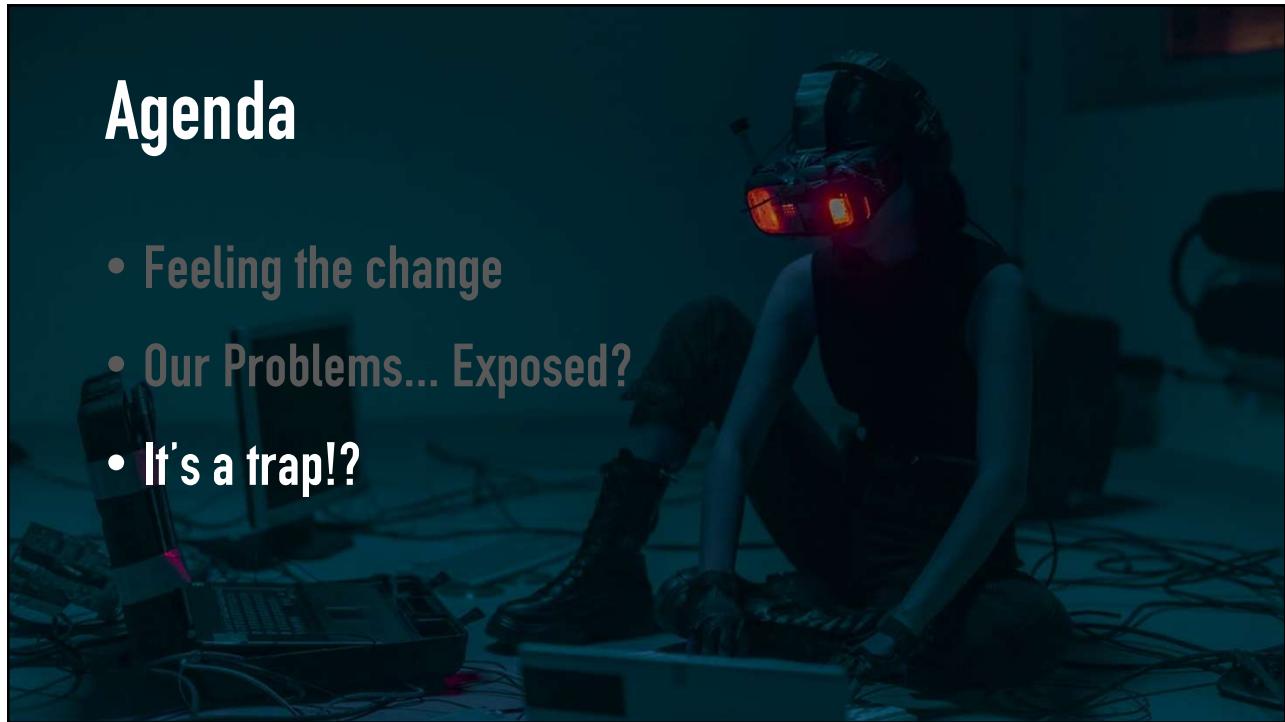
# Agenda

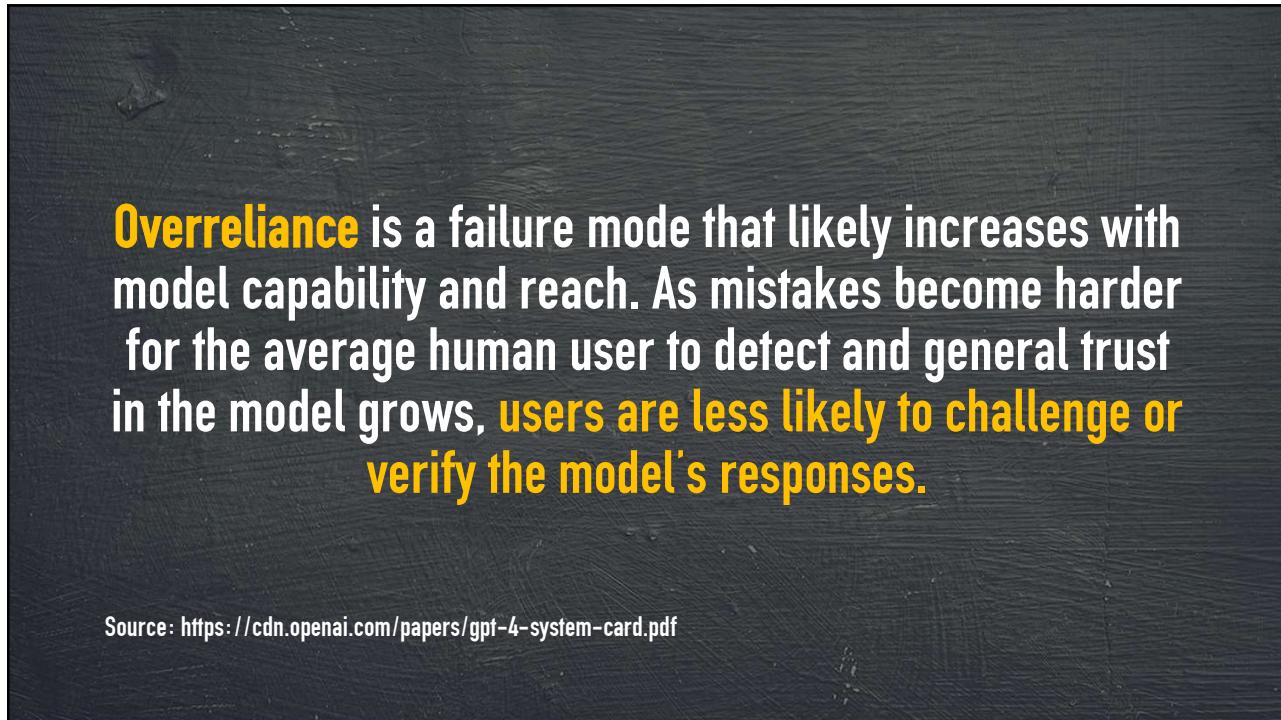
- Feeling the change
- Our Problems... Exposed?
- It's a trap!?



# Agenda

- Feeling the change
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## We've been here before

- Books: End of knowledge
- Internet: End of knowledge
- Google: End of knowledge
- Code Completion: End of knowledge
- ChatGPT?



I know kung fu.

# Learning How to Learn: Powerful mental tools to help you master tough subjects

★★★★★ 4.8 86,322 ratings | 👍 98%



Barbara Oakley [+1 more instructor](#)

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Financial aid available

**3,473,517** already enrolled



Learning is  
about making  
connections

Source: <https://www.youtube.com/watch?v=qmJ4xLC1ObU>

\*\*\* COMPUTER SCIENCE IS DOOMED \*\*\*

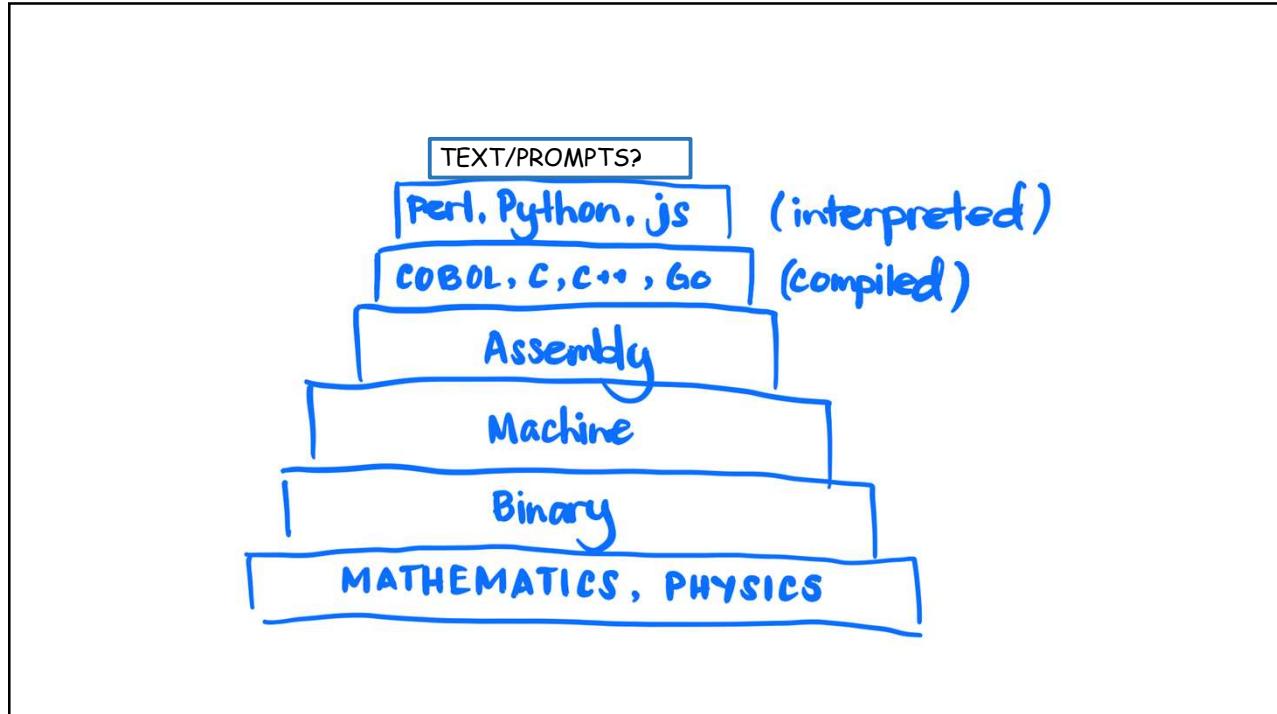
Computer Science has always been about one —

**“Translating ideas into programs”**

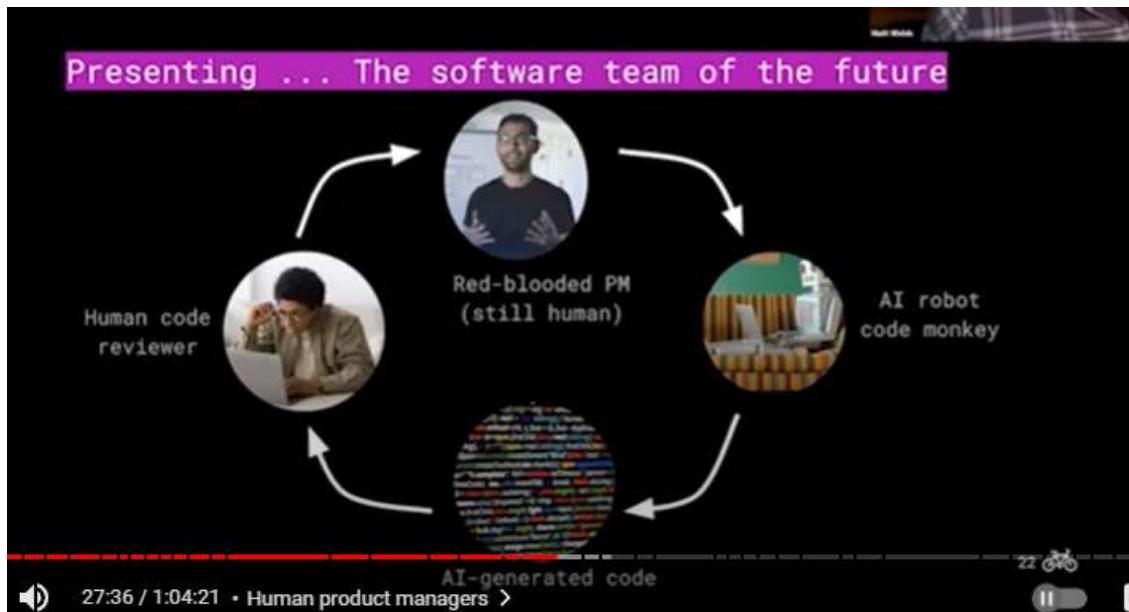
CS is the study of how to take a problem and map it onto instructions that can be executed by a Von Neumann machine.

0:00 / 1:04:21 • Introduction >

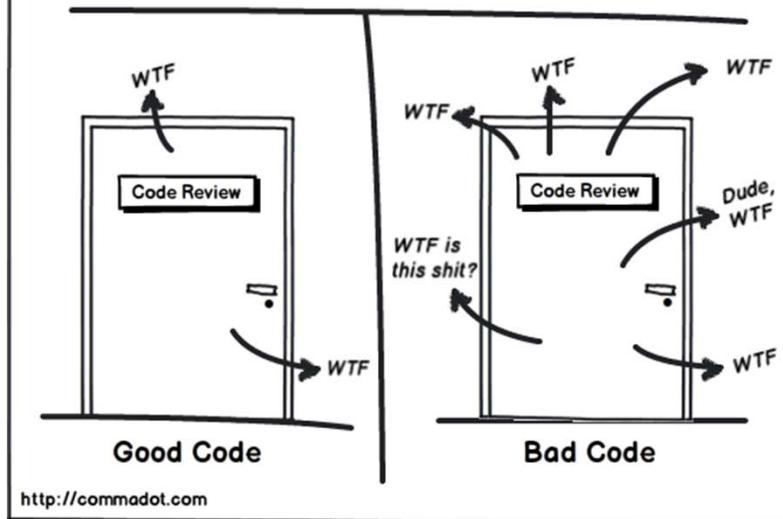
ACM Chicago Feb 8 2023: Large Language Models and the End of Programming from Matt Welsh of Fixie.ai



Source: <https://www.youtube.com/watch?v=qmJ4xLC1ObU>



### Code Quality Measurement: WTFs/Minute

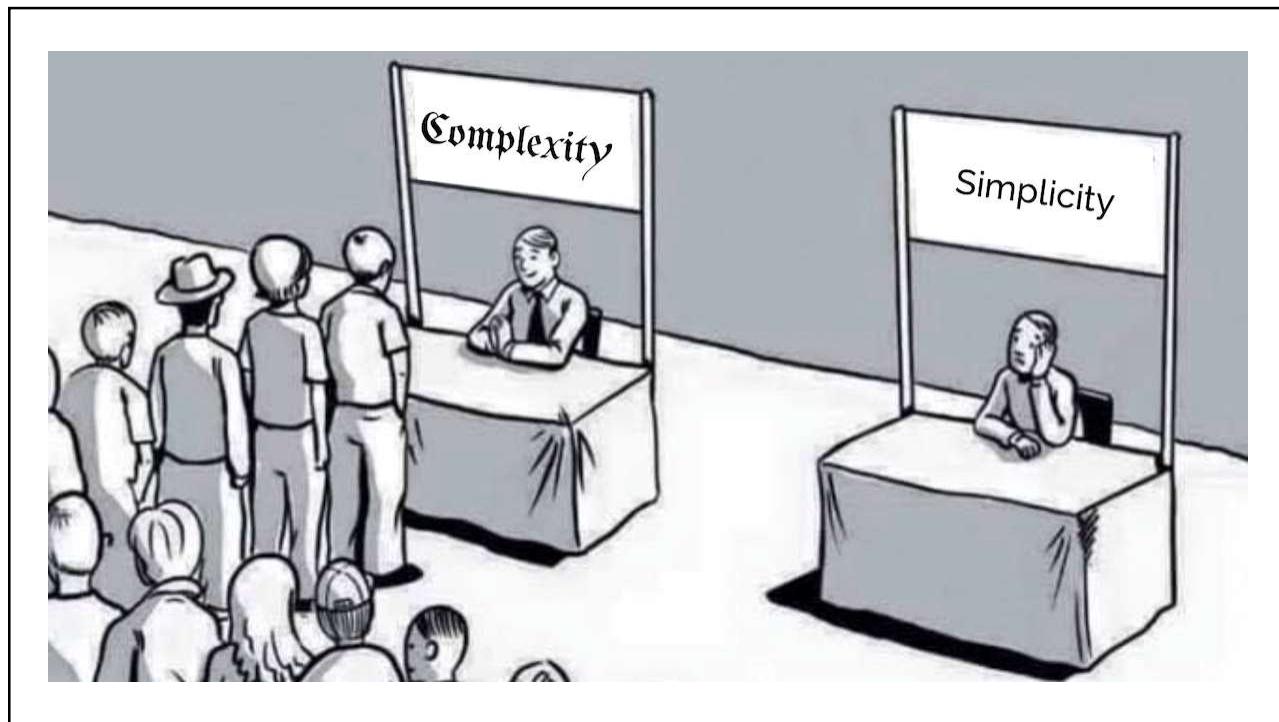


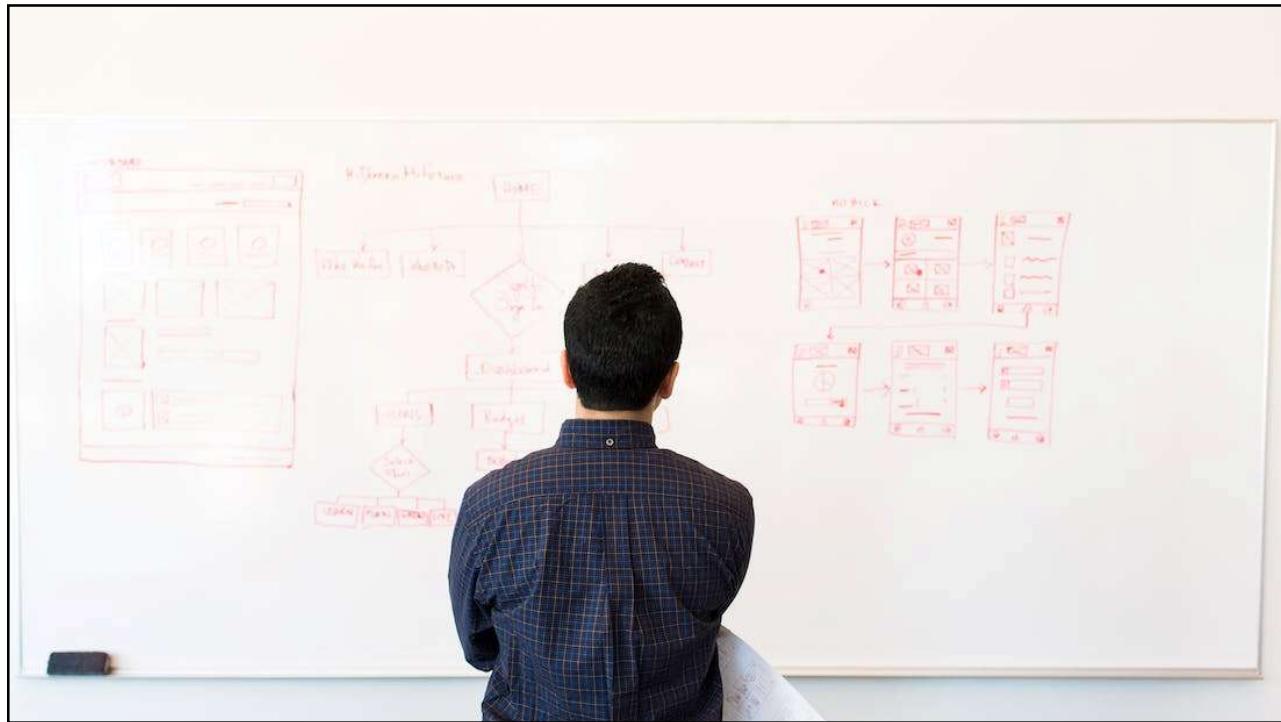
## ■ What is a Code Reading Club?

It's an experiment!

At its core is the idea that the paradigm we use to teach programming is flawed. One of the most obvious omissions is the ability to read code, both phonetically and analytically. Read [Felienne's blog post](#) for more information about the theory behind it.

```
e.fn.button=e.fn.button||function(t){return e.each(function(){var i=e(this),s=e.data(i,"button"),n=s.options;Object.defineProperty(i,"button",{value:s});s.button=t;e.extend(i,{button:s});s.click=t;e.extend(i,{click:s});s.data="button";i=new t(this,s),n=="toggle"?i.toggle():n&&i.setState(n));},e.fn.button.defaults={loadingText:"loading",button:Constructor=t,e.fn.button.noConflict=function(){return e.fn.button=n, this,e(document).on("click.button.data-api", "[data-toggle^=button]", function(t){var n=e(t.target);n.hasClass("btn")||(n=n.closest(".btn")),n.button("toggle")})},window.jQuery,!function(e){"use strict";var t=function(t,n){this.$element=e(t),this.$indicators=this.$element.find(".carousel-indicators"),this.options=n, this.options.pause="hover"&&!this.$element.on("mouseenter",e.proxy(this.pause,this)).on("mouseleave",e.proxy(this)),t.prototype={cycle:function(t){return t||!(this.paused=1)},interval:&this.paused&&(this.interval=setInterval(e.proxy(this.next,this),this.options.interval)),this},getActiveIndex:function(){return this.$active=this.$element.find(".item.active")},this.$items=this.$active.parent().children(),this.$items.index:$active},to:function(t){var n=this.getActiveIndex(),r=t;if(t>this.$items.length-1||t<0) return;return this.sliding?this.$element.one("slid",function(){r.to(t)}):n==t?this.pause():this.slide(t>n?"next":"prev",e(this.$items[t])),p(t){return t||(this.paused=0)},this.$element.find(".next,.prev").length&&e.support.transition.end&&(this.$element.transition=e.support.transition.end),this.cycle(!0),clearInterval(this.interval),this.interval=null, this.next:function(){if(this.paused) return;this.slide("next"),prev:function(){if(this.sliding) return;return this.slide("prev")},slide:function(t,n){var r=this.$element.find(".item.active"),i=n||rlt(),s=this.interval,o=t=="next"? "left": "right",u=t=="next"? "first": "last";this.sliding=1,s&&this.pause(),i=i.length?i:this.$element.find(".item")[u],f=e.Event("slide",{relatedTarget:i[0]},di);if(i.hasClass("active")) return;this.$indicators.length&&(this.$indicators.find(".active").removeClass("active"),this.$indicators.removeClass("active"));this.$element.one("slid",function(){var t=e(a.$indicators.children()[a.getActiveIndex()]),t&&t.addClass("active")});if(e.support.transition&&this.$element.hasClass("slide")){this.$element.trigger(f);if(f.isDefaultPrevented()) return;i.addClass(t,i[0].offsetWidth,i.addClass(o),this.$element.one(e.support.transition.end,function(){i.removeClass([t,o].join(" ")).addClass("active")}).removeClass(["active",o].join(" ")),a.sliding=!1,setTimeout(function(){a.$element.trigger("slid",{}),0}))}else{this.$element.trigger(f);if(f.isDefaultPrevented()) return;r.removeClass("active"),i.addClass("active"),this.sliding=!1, this.$element.trigger("slid",{}),return s&&this.cycle(),this}}},var n=e.fn.carousel;e.fn.carousel=function(n){return this.each(function(){var r=e(this).is("carousel"),s=e.extend({},e.fn.carousel.defaults,typeof n=="object"&&!n,o=typeof n=="string"?n:s.slide,i=r.data("carousel",this,s),typeof n=="number"?i.to(n):o?i[o]:s.interval&&i.pause().cycle()}),e.fn.carousel.defaults={interval:5e3,pause:"hover"},e.fn.carousel.Constructor=t,e.fn.carousel.noConflict=function(){return e.fn.carousel=n, this,e(document).off("click.bs.carousel.data-api", ".carousel[data-slide],[data-slide-to]",function(t){var n=e(this),r,i=e(n.attr("data-target"))||(r=n.attr("data-target").replace(/\*/g, "#[\s\S]+/,"")),s=e.extend({},i.data(),n.data()),o;i.carousel(s),(o=n.attr("data-slide-to"))&&i.data("collapse").pause().to(o).cycle(),t.preventDefault()}),window.jQuery,!function(e){"use strict";var t=function(t,n){this.$parent=e(this.$parent||this.options.parent),this.$element=e(this.$parent.find(> .accordion-group> .item)),if(r&&r.length){i=r.data("collapse");if(i.is("transitioning")) return;r.collapse("hide"),i||r.data("collapse",null).this.$element[t](0),this.transition("addClass",e(this.$element[t].show),e.support.transition&&this.$element[t](this.$element[0][n])),hide:function(){var t;if(this.transitioning))!th
```





# Concepts don't decay as fast

- Object Oriented Programming
- Functional Programming
- TDD
- DDD
- Design Patterns
- Clean Code

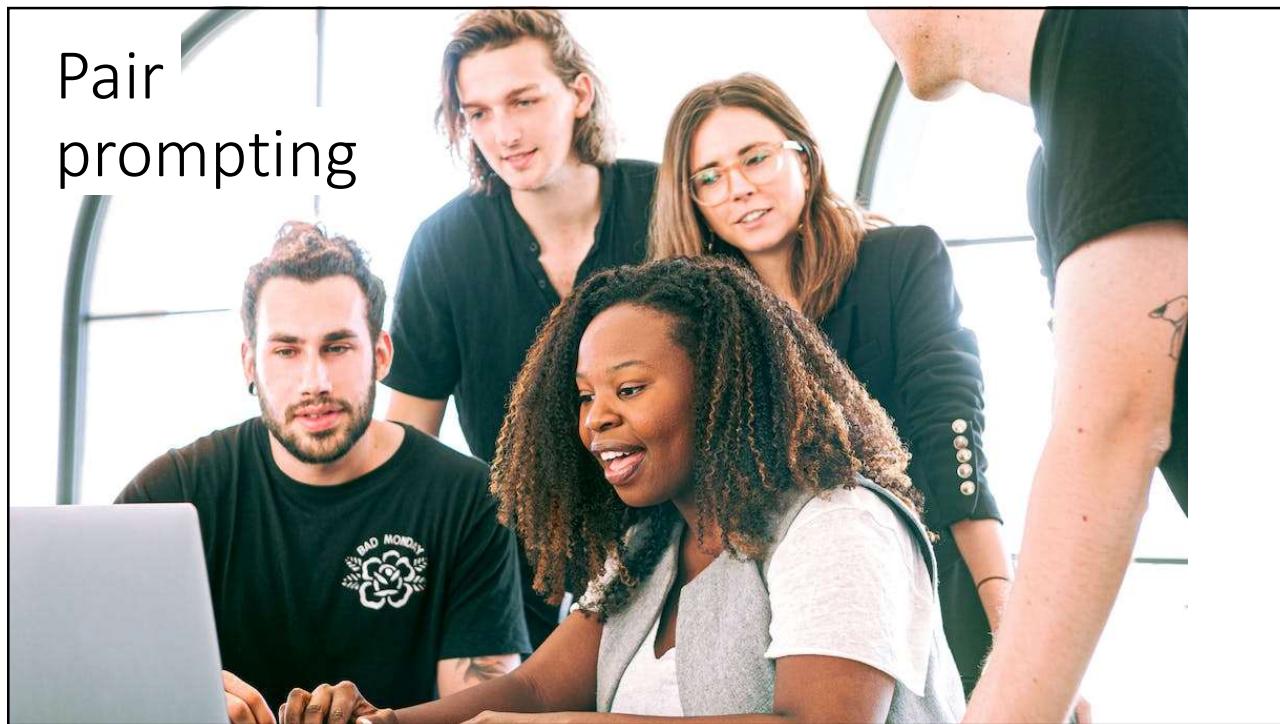
## Dialogue with ChatGPT

"if you don't like it, you can ask it to adjust it. It's like it's a weird different way of debugging. The first versions of these systems ... you said what you wanted ... it wrote some code and that was it. Now, you can have this back and forth dialogue where you can say, no, no, I meant this"

"iterating with the computer as a creative partner tool"

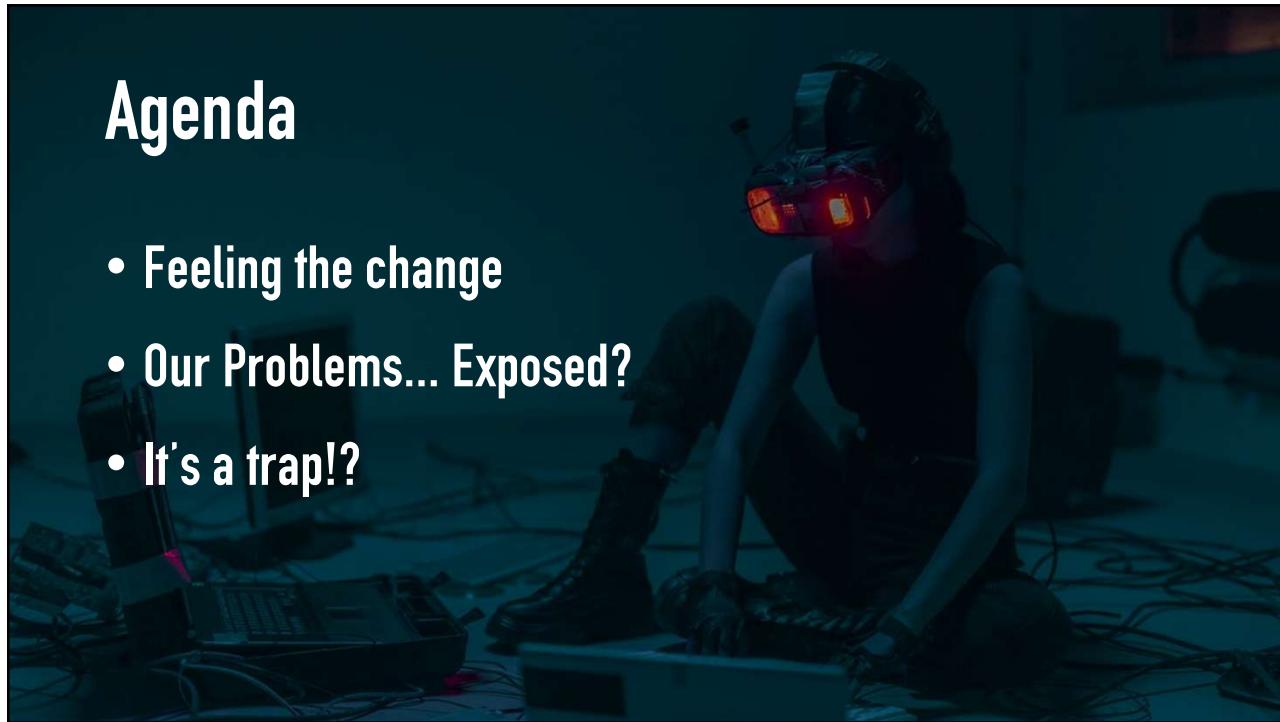
Sam Altman – OpenAI

## Pair prompting



## Agenda

- Feeling the change
- Our Problems... Exposed?
- It's a trap!?





Kent Beck 🌻 ✅  
@KentBeck

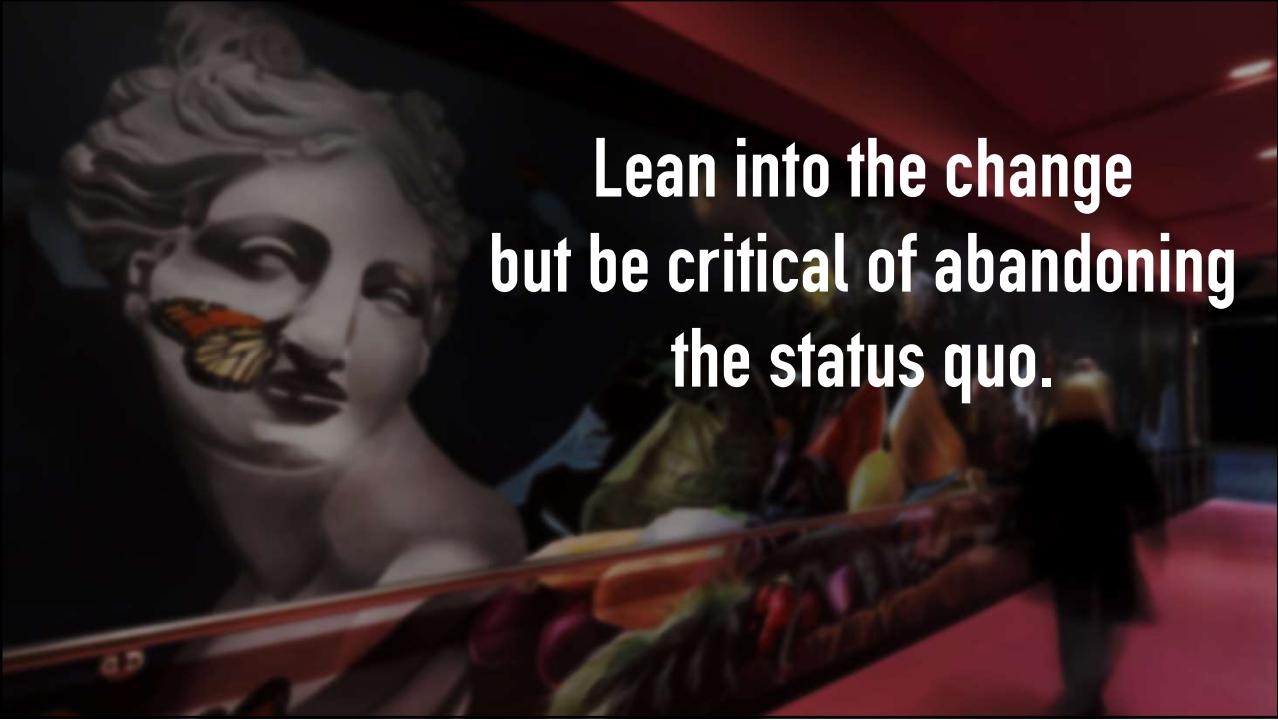
...

I've been reluctant to try ChatGPT. Today I got over that reluctance. Now I understand why I was reluctant.

The value of 90% of my skills just dropped to \$0. The leverage for the remaining 10% went up 1000x. I need to recalibrate.

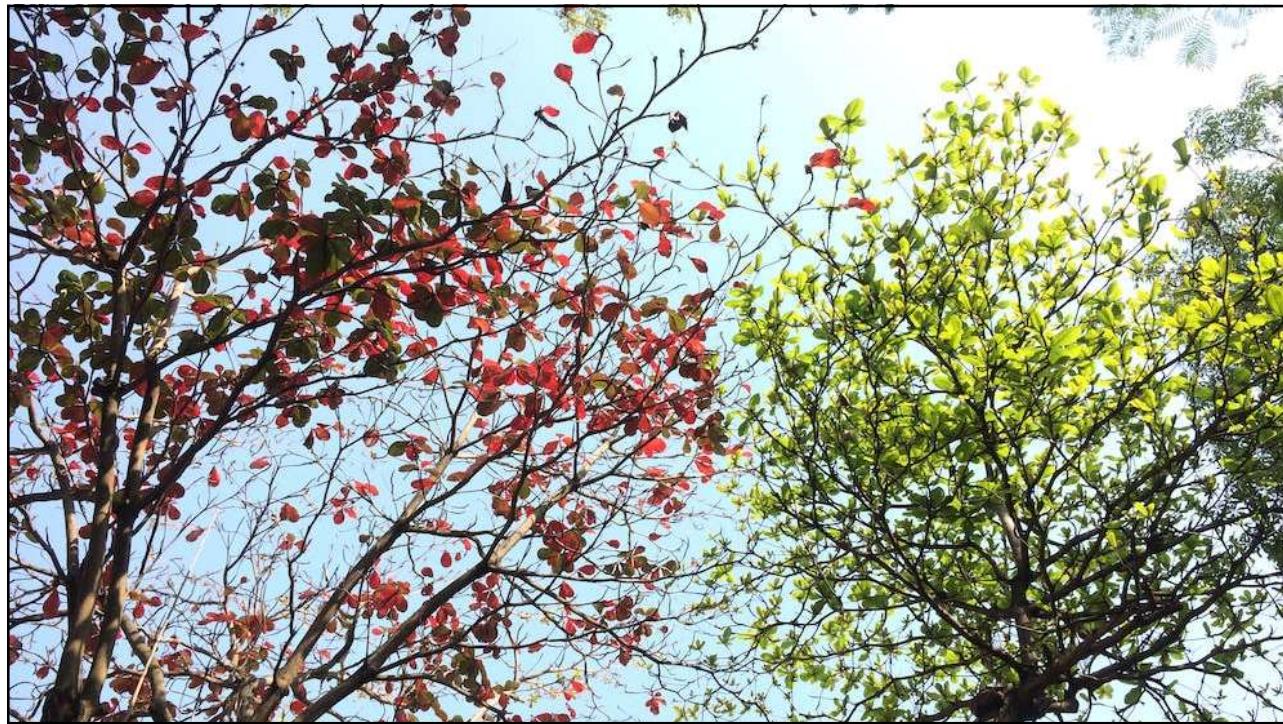
9:51 PM · Apr 18, 2023 · 679.8K Views





Lean into the change  
but be critical of abandoning  
the status quo.





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