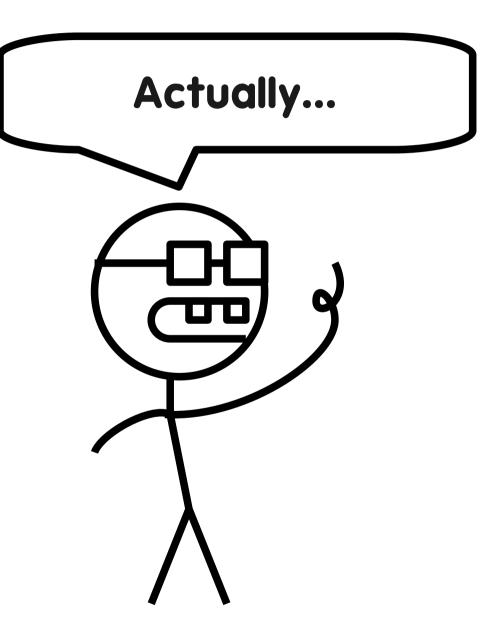
Charlie's Grand Challenge

A breif history of snobbery

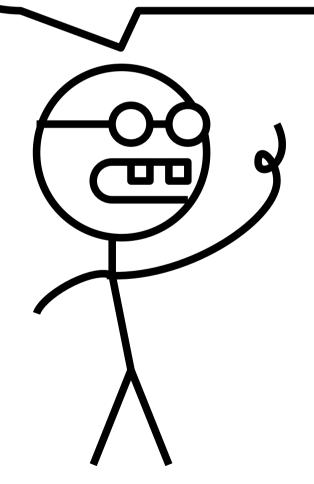
A breif history of snobbery

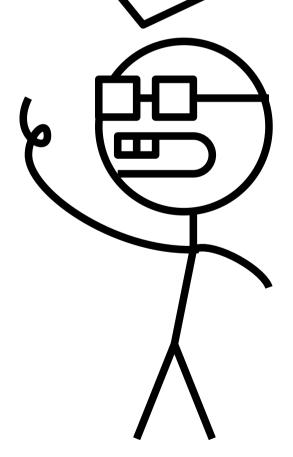


What is a snobbery?

Apple makes the best computers.

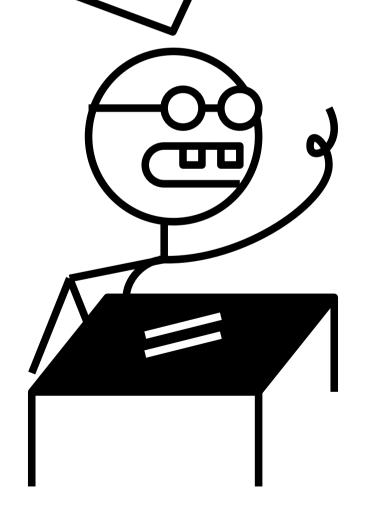


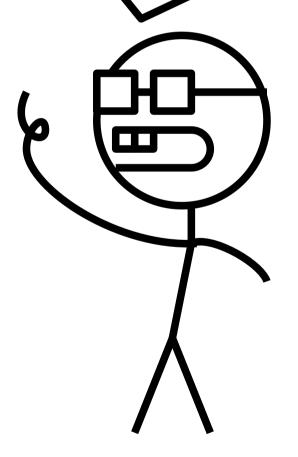




Actually this is Fairtrade cocaine!

HA!
But is it organic?

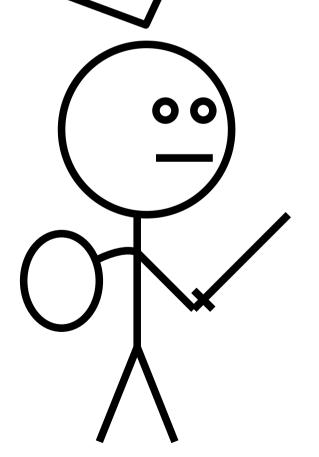




Time before snobbery

Being a soldier is a noble profession

But why?



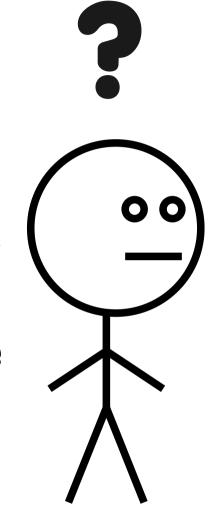


For

Murdering people is wrong

Wars have to be for a reason and not just to demonstrate courage

Pursuit of glory is not a selfless act

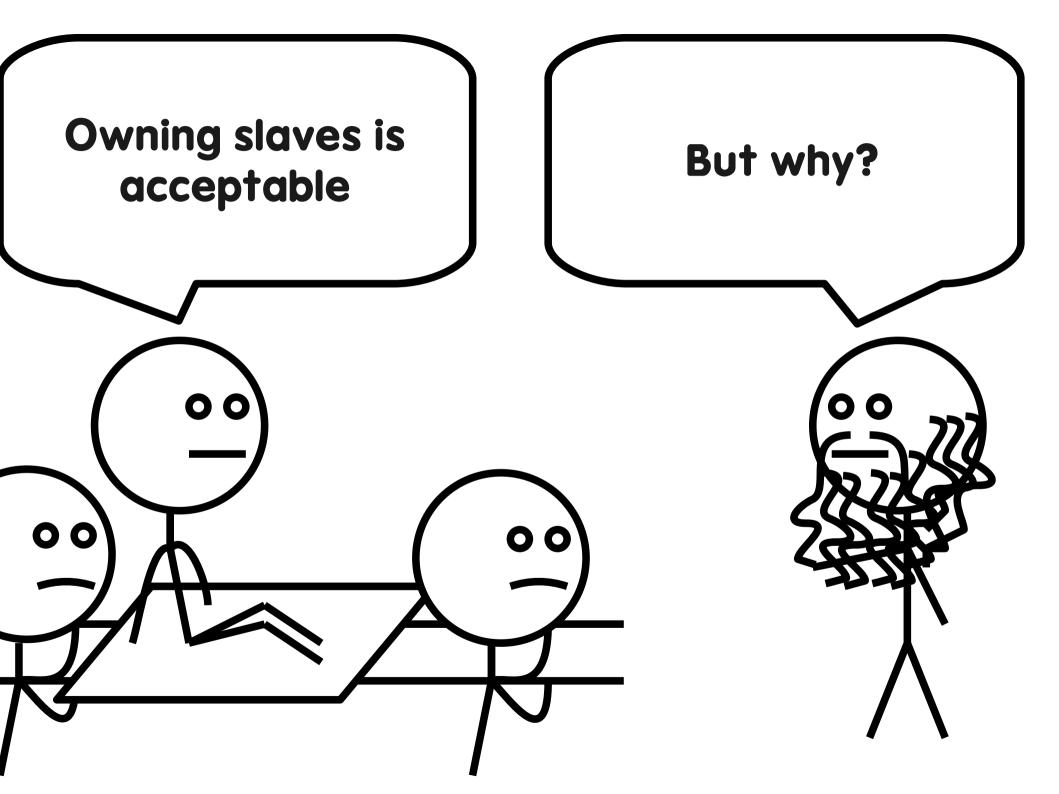


Against

This person does not seem to have common sense

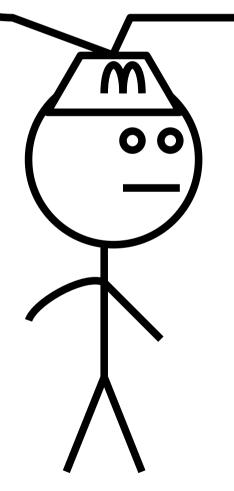
But I like it the way things are

Looks like he hasn't had a wash for weeks



Would you like fries with that?

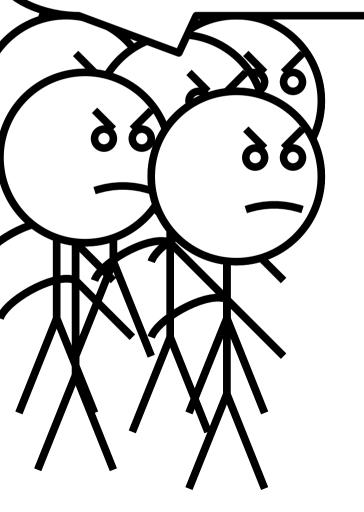
But why?





Lets shut him up

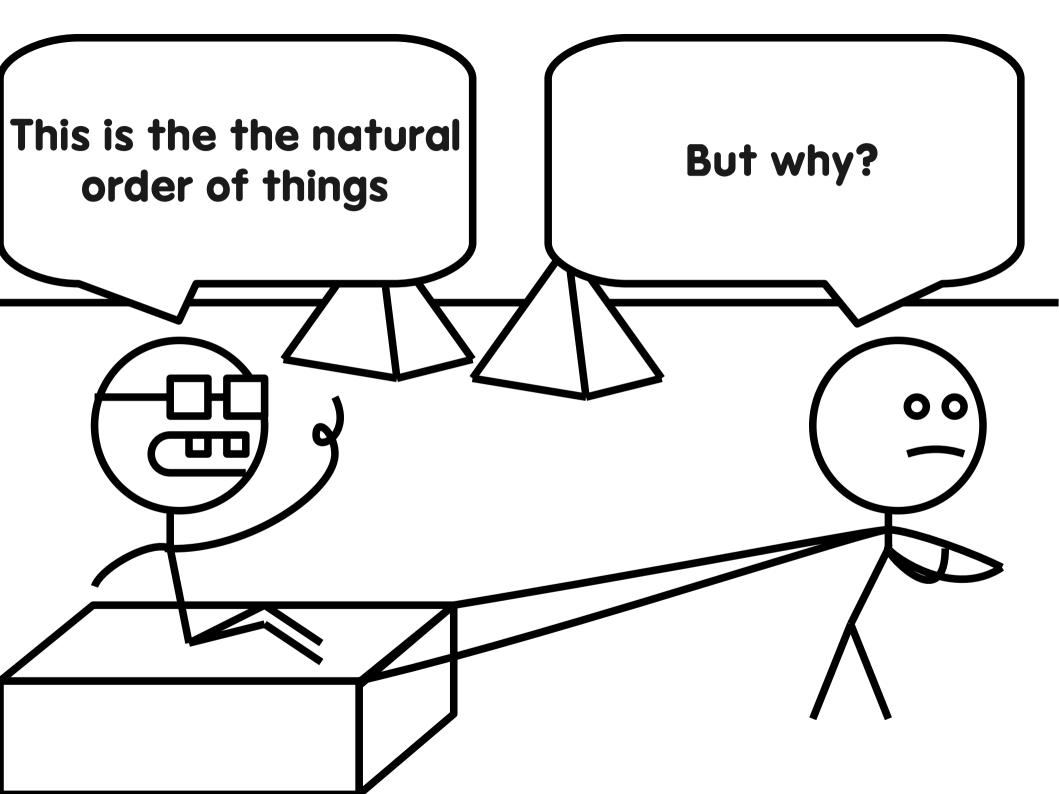
But why?







Origins of snobbery



For

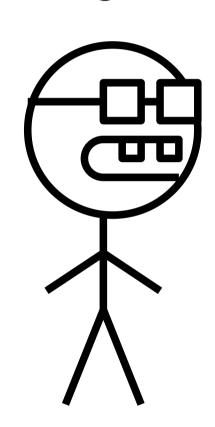
Mordering people is wrong

Wars have to be for a reason and not just to demonstrate courage

not a selfless net



This person does not seem to have common sense



Common sense is the collection of prejudices acquired by age eighteen

Albert Einstein

Cats have 4 legs

Sky is blue

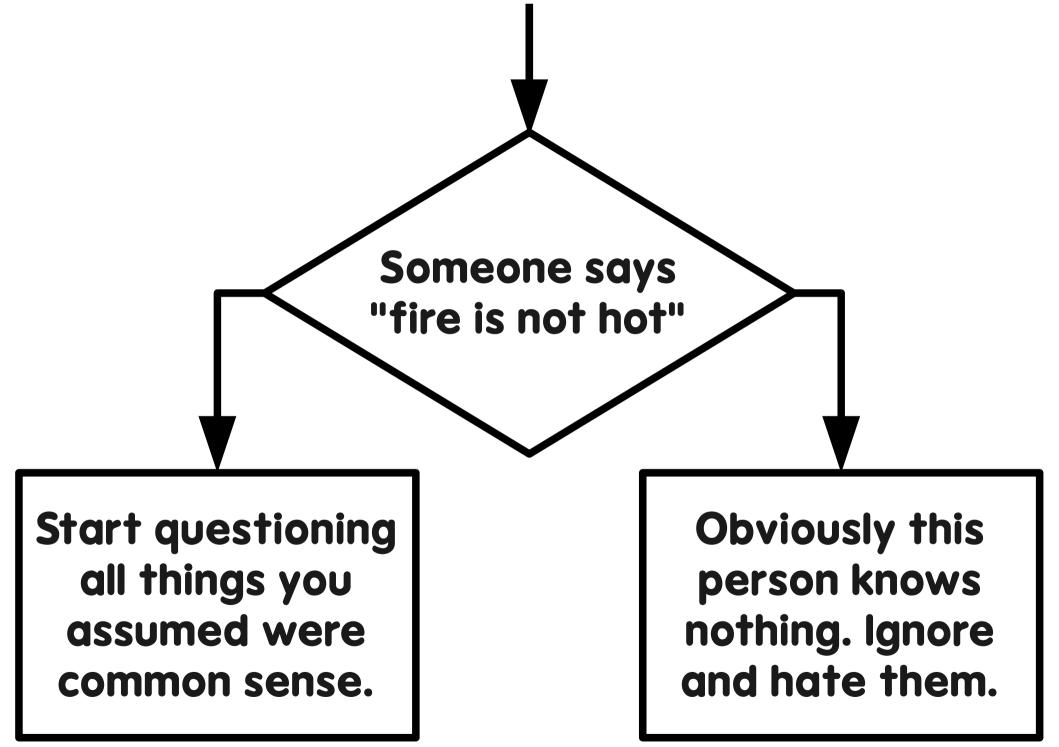
Fire is hot

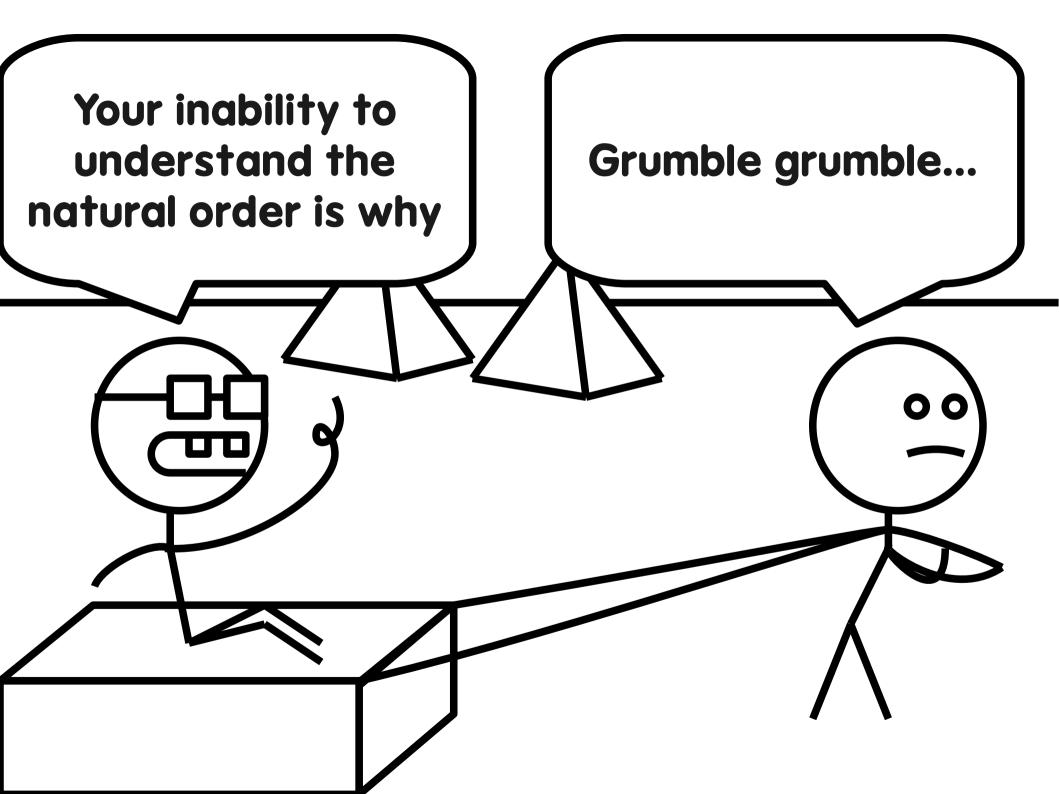
Common Sense

I am fantastic

Slaves are stupid

Indent with tabs
My iPhone loves me

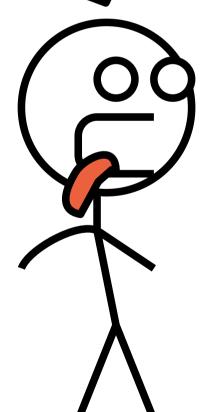


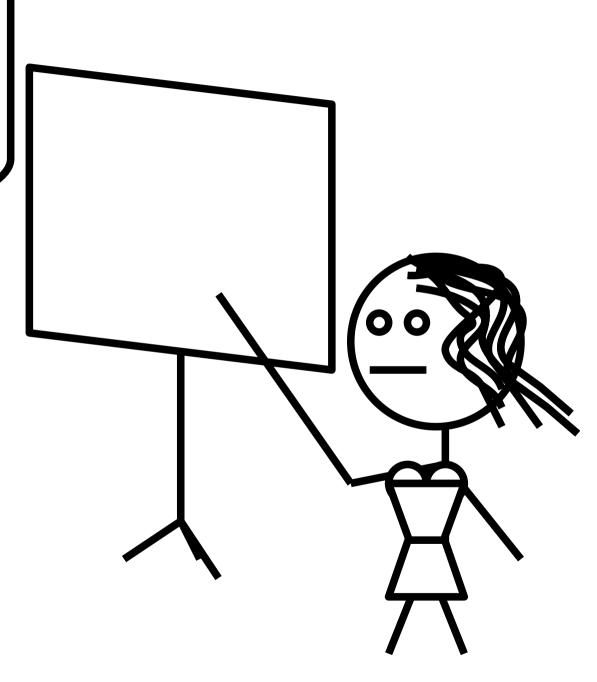


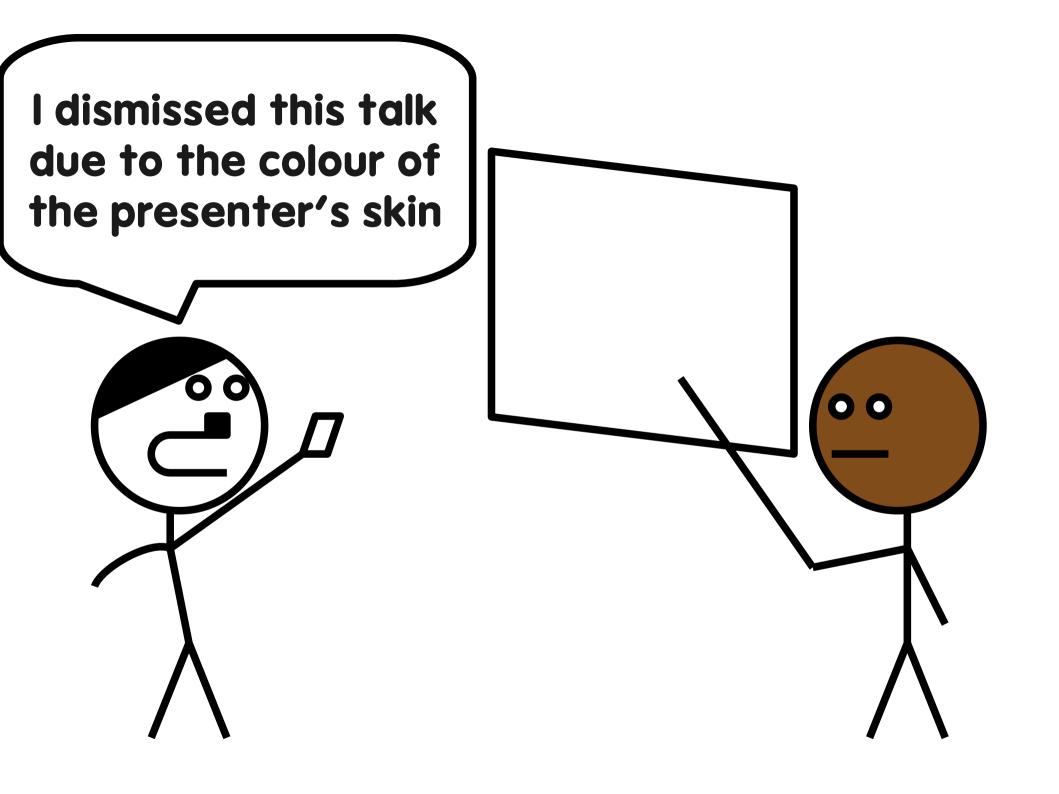
The wisdom of a learned man cometh by opportunity of leisure: and he that hath little business shall become wise.

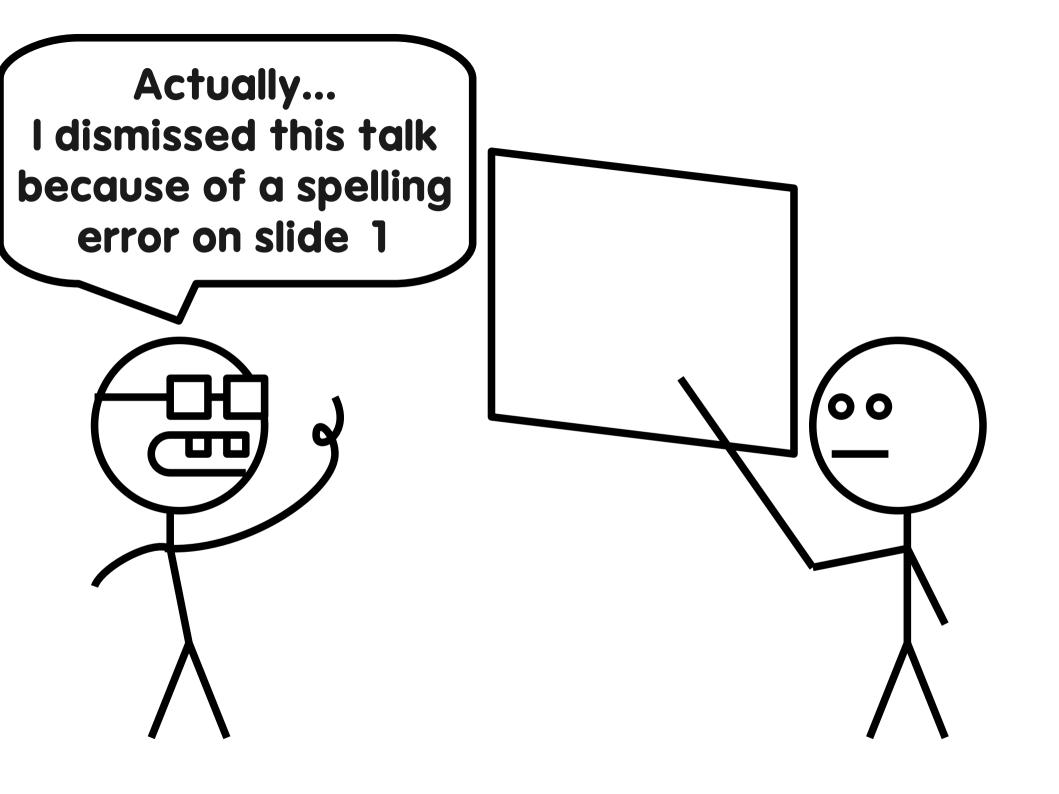
How can he get wisdom that holdeth the plough, and that glorieth in the goad, that driveth oxen, and is occupied in their labours, and whose talk is of hullocks? Sirach [38:24] Is it acceptable?

What is she doing out of the kitchen?
She does have a cracking pair though

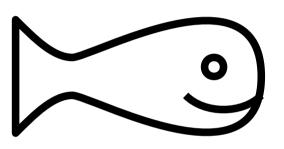


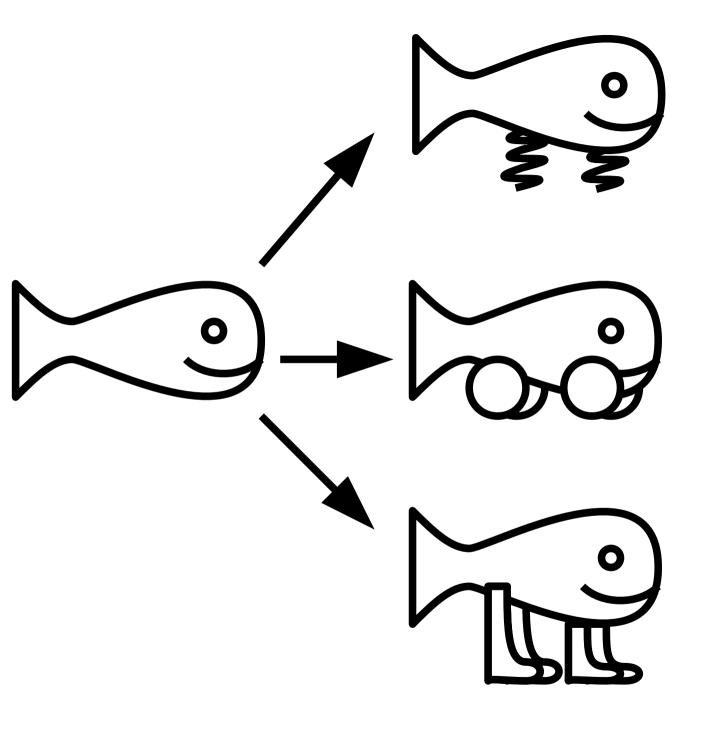


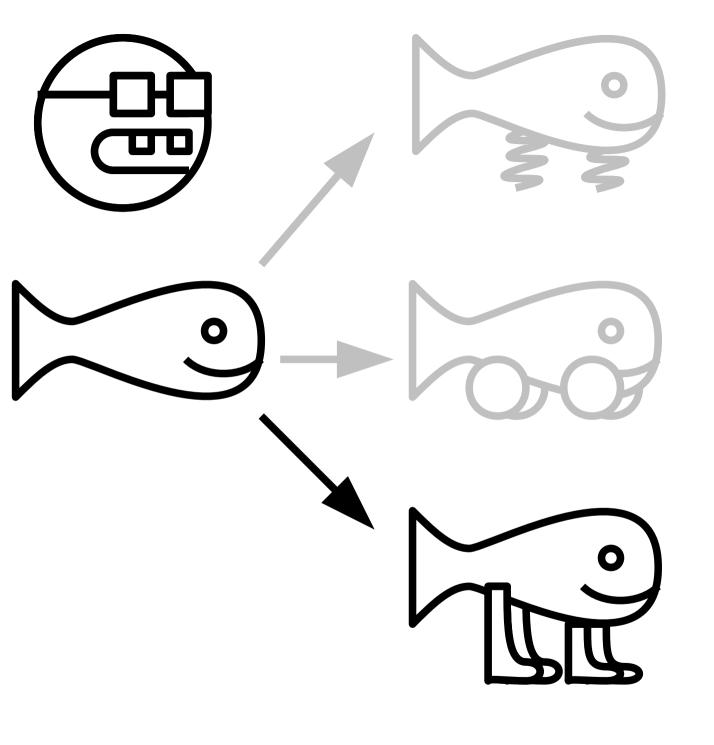


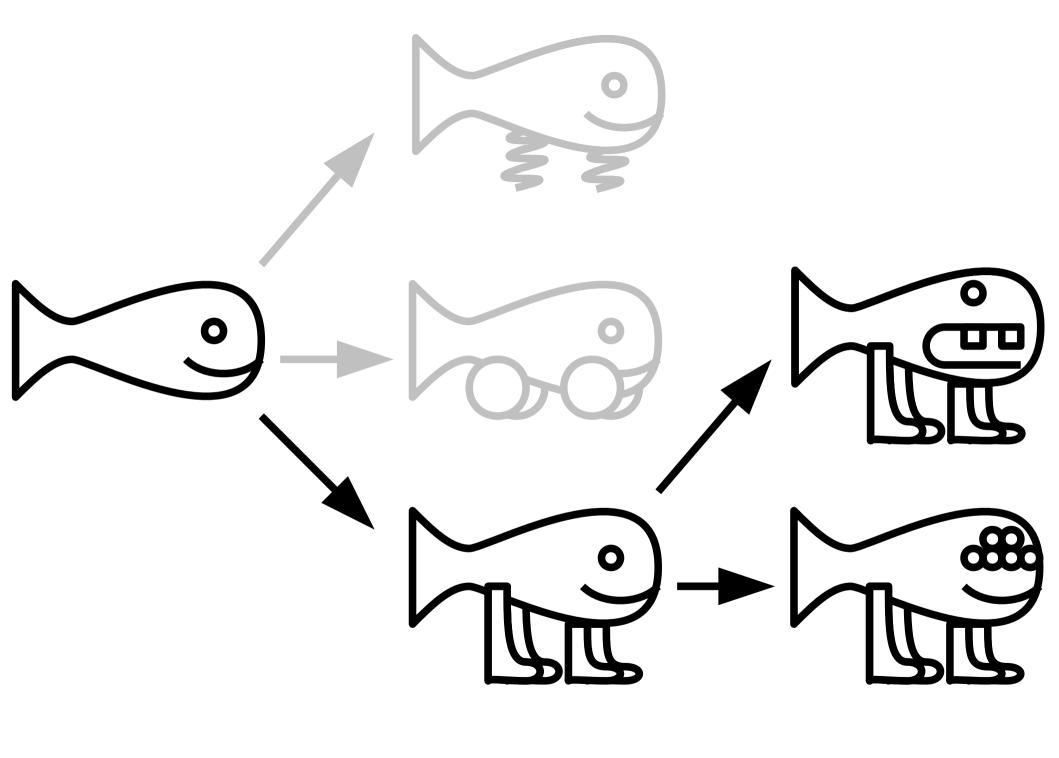


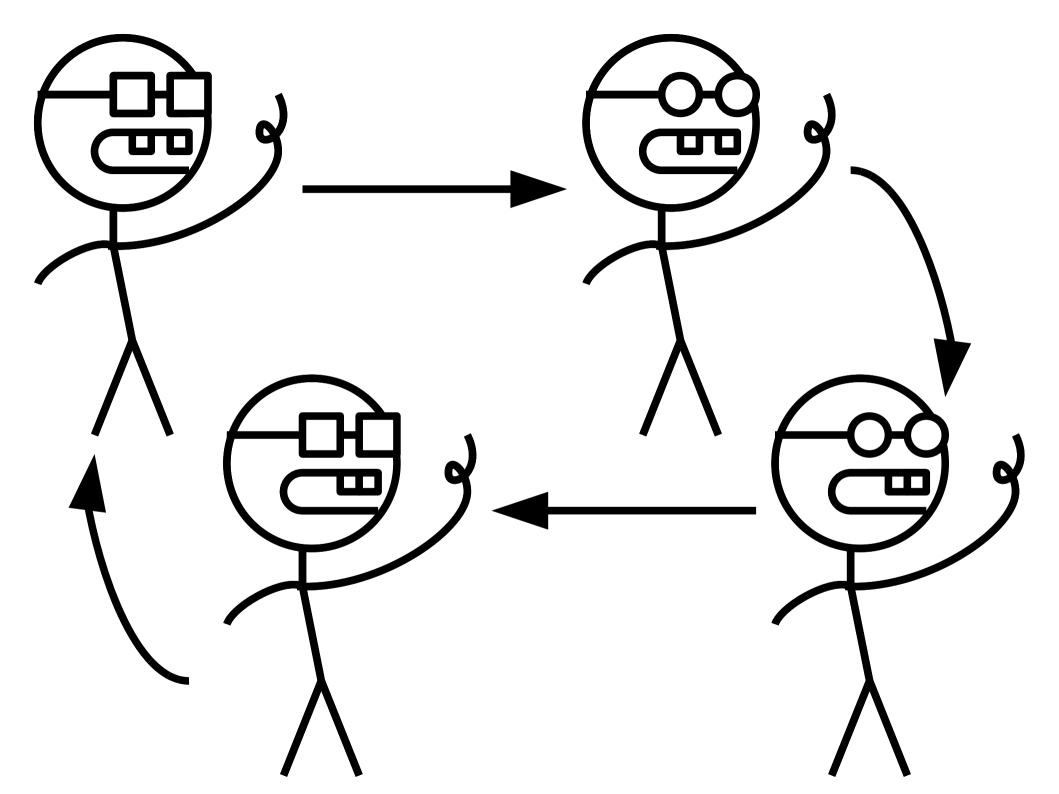
Evolution







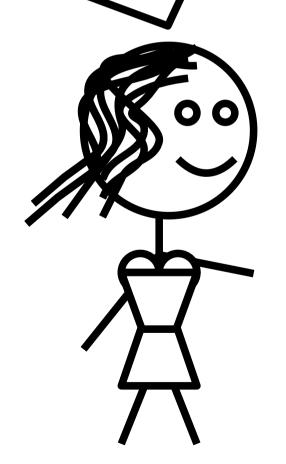


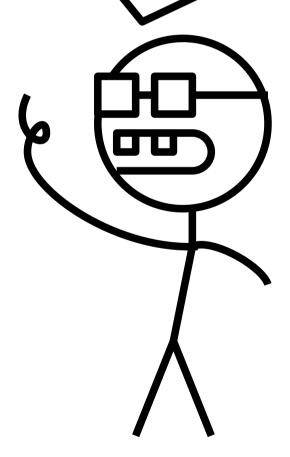




You're so funny!
Maybe you and me
could sleep together?







Grand Challenges



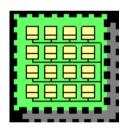
μGC1: Batteries Not Included:

Minimizing the energy demands of electronics



μGC2: Silicon meets Life:

Interfacing electronics to biology



μGC3: Moore for Less:

Performance-driven design for next-generation chip technology



μGC4: Building Brains:

Neurologically-inspired electronic systems



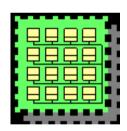
μGC1: Batteries Not Included:

Minimizing the energy demands of electronics



μGC2: Silicon meets Life:

Interfacing electronics to biology



μGC3: Moore for Less:

Performance-driven design for next-generation chip technology



μGC4: Building Brains:

Neurologically-inspired electronic systems

Cache Hierarchy

Harvard Architecture

Programming Languages
Binary Arithmetic

Stacks

Cache Structure

Debuggers

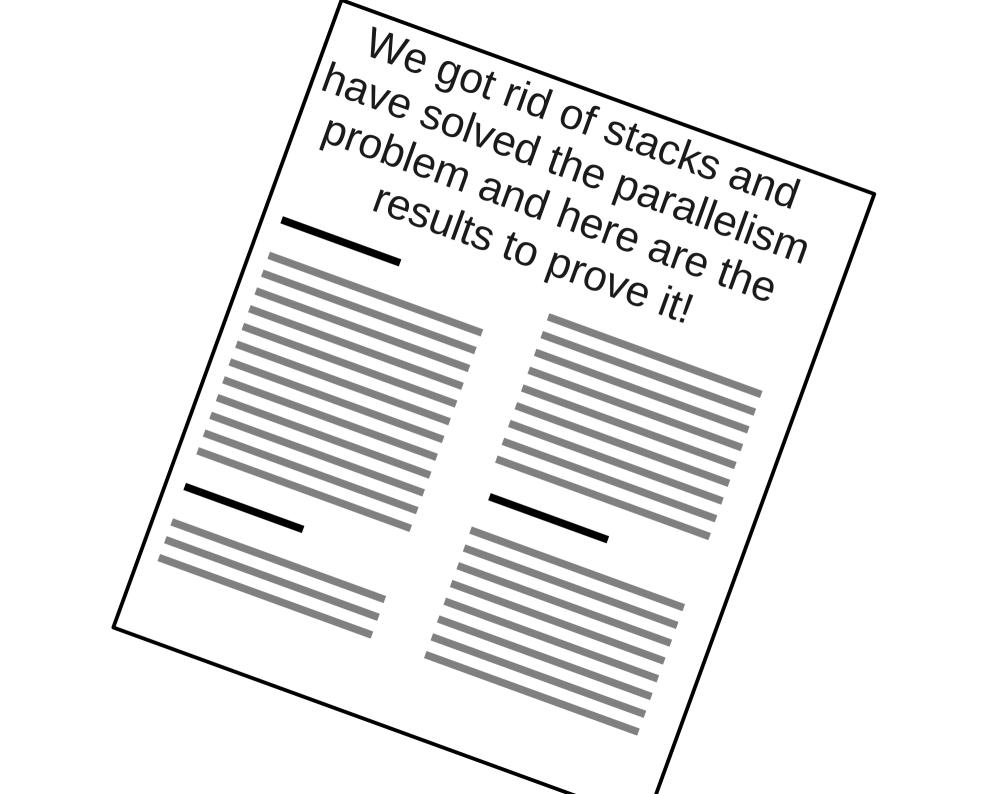
Common Sense

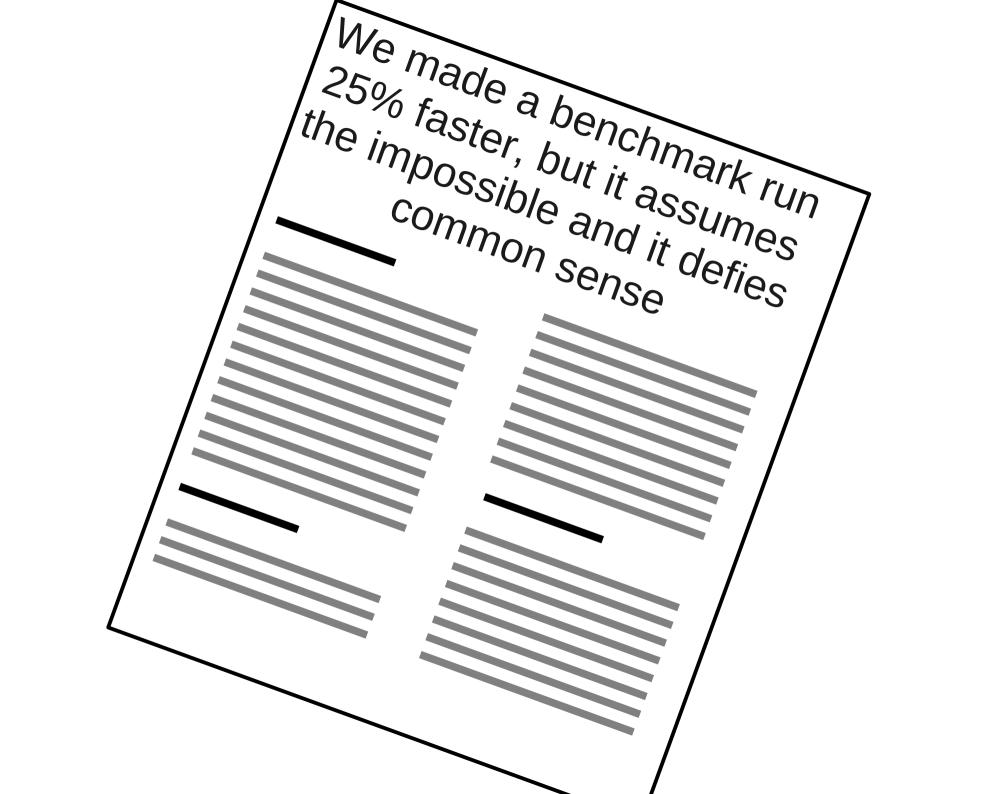
Von Neumann Architecture

Program Counters

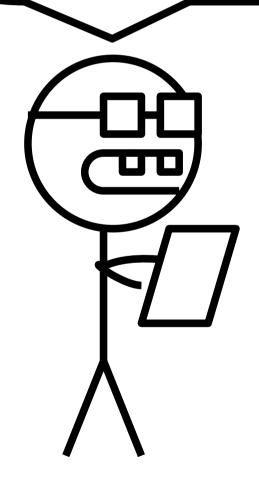
Deterministic Code Execution

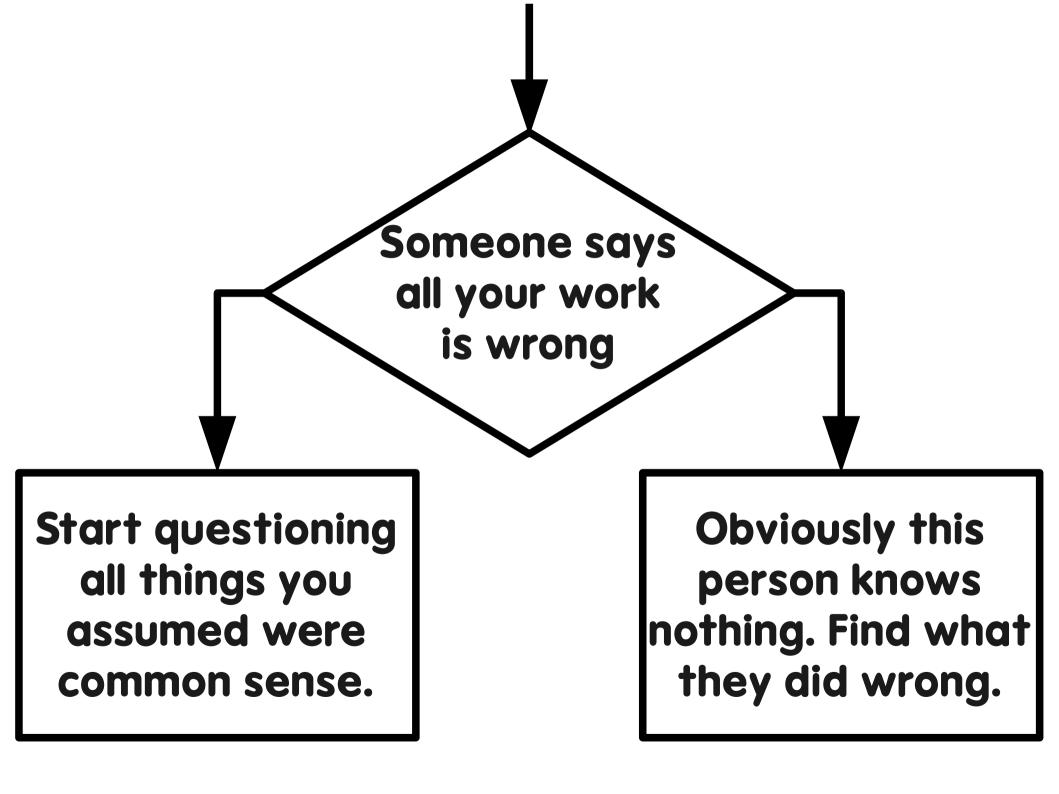
Linear Memory Sequential Code

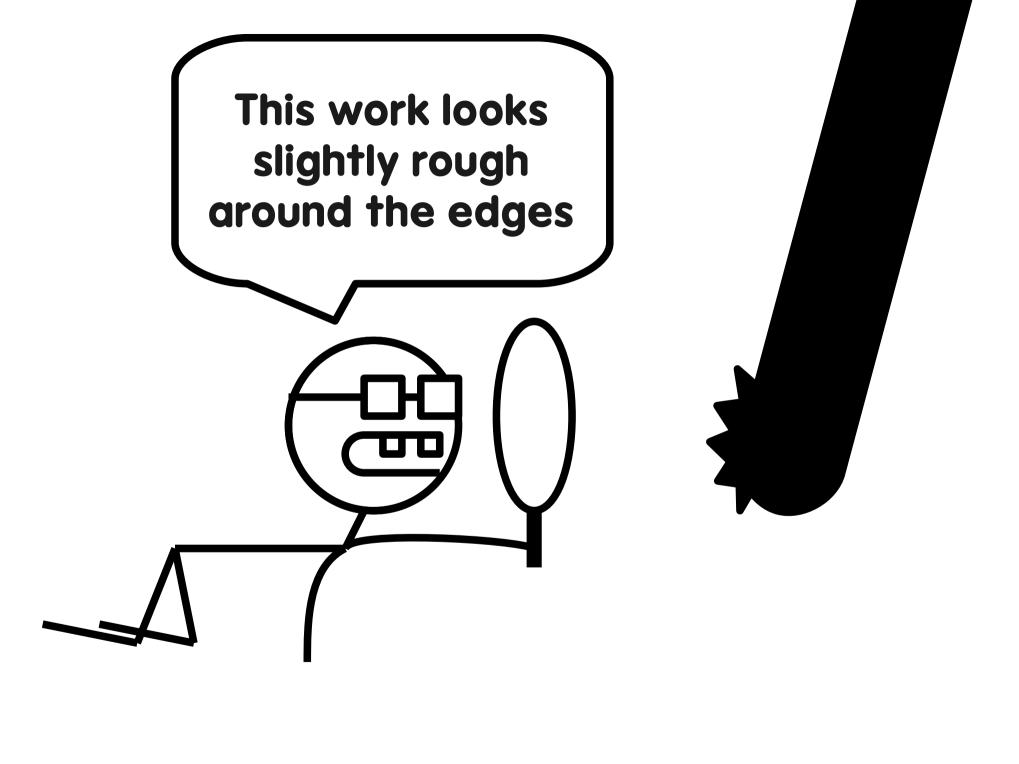




Allow me to examine this work and with an open mind determine whether this is a step in the right direction

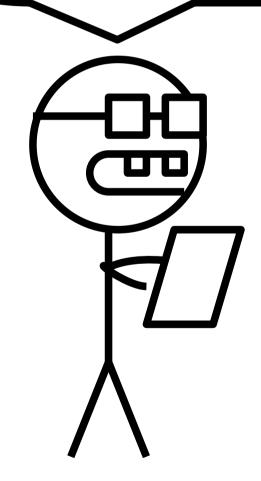






Y() AREA MACOR ON!

After studying this work for four, maybe five minutes I say:
WROOOONG!
Your talk is of bullocks

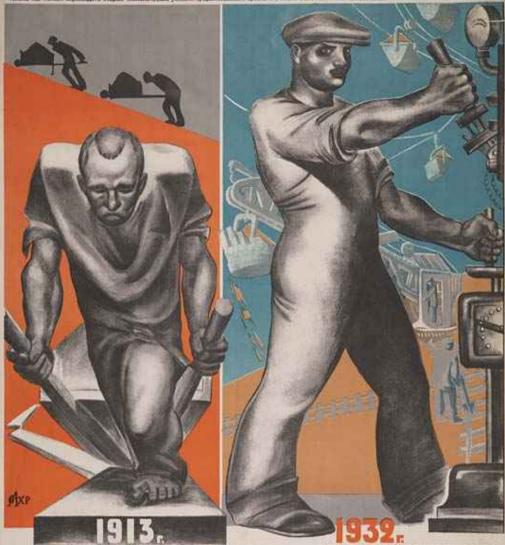


Isn't that the point of the Grand Challenges?



ТРУА В ПЯТИЛЕТКЕ

"Нади добиться, чтобы все поисии, что наи плинадленит России, -сто им, рабочие и престыпение месом госка деятельностью, гаска строска трудовой дасципленой, тольно нам можем пересоздать старые экономические условия существивания и просести в инции встаной клажетвенный плане"



Parties and the same of the sa



Работа по рационализации всего народного холийства споей гланичанией и решаницей предпосываюй имеет ШИРОНОЕ ВОВЛЕЧЕНИЕ В НЕЕ РАБОЧИХ И ИРЕСТЬЯНСНИЯ МАСС Лишь при самов решительнай борьбе с непроизводительными тратани, халативистью в вебрениюстью работы, нерошанивым и верадивыми отвошением и средствам производств и своему собстоенному труду, отставьюм техническими формани холийства (устарелам техника в видустрим, трехнолья, соха в пром. в сельсном холийстве) овамличия видинательным победа трудищихся

Solutions?

Stagnancy!

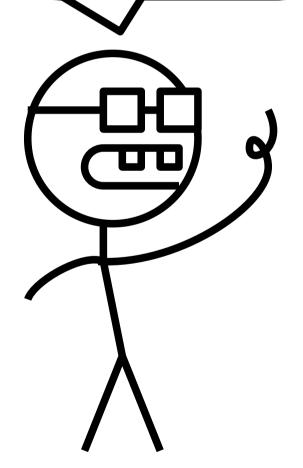
Fear change!
Damn kids
on my lawn!

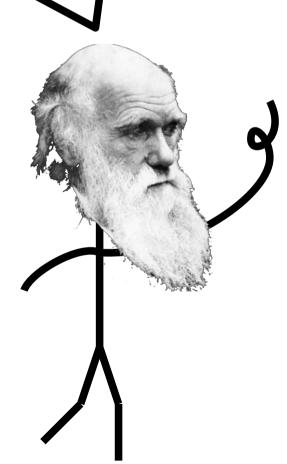


Gradual beneficial change



Smash the system!









μGC0: Not being Snobs:

Actually doing science rather than acting like arseholes



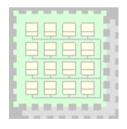
µGC1: Batteries Not Included:

Minimizing the energy demands of electronics



μGC2: Silicon meets Life:

Interfacing electronics to biology



μGC3: Moore for Less:

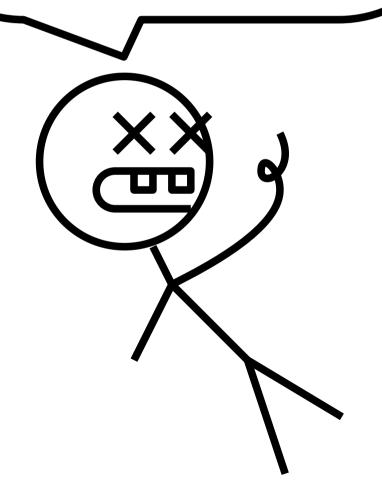
Performance-driven design for next-generation chip technology

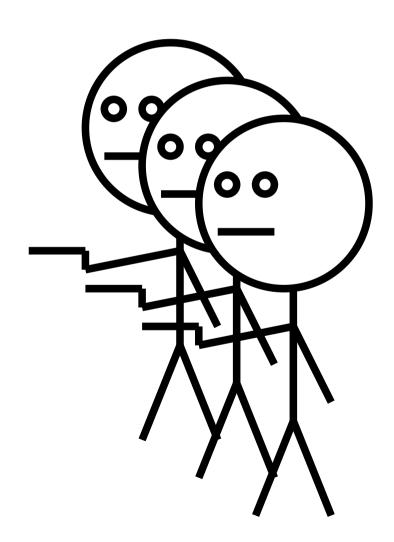


μGC4: Building Brains:

Neurologically-inspired electronic systems

Actually! You should aim for the chest and not the head







µGC0: Reconsider the Structure of Scientific Ecosystem:

Find a better system for science or something? I don't know, maybe we are all screwed anyway



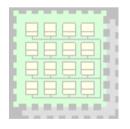
µGC1: Batteries Not Included:

Minimizing the energy demands of electronics



μGC2: Silicon meets Life:

Interfacing electronics to biology



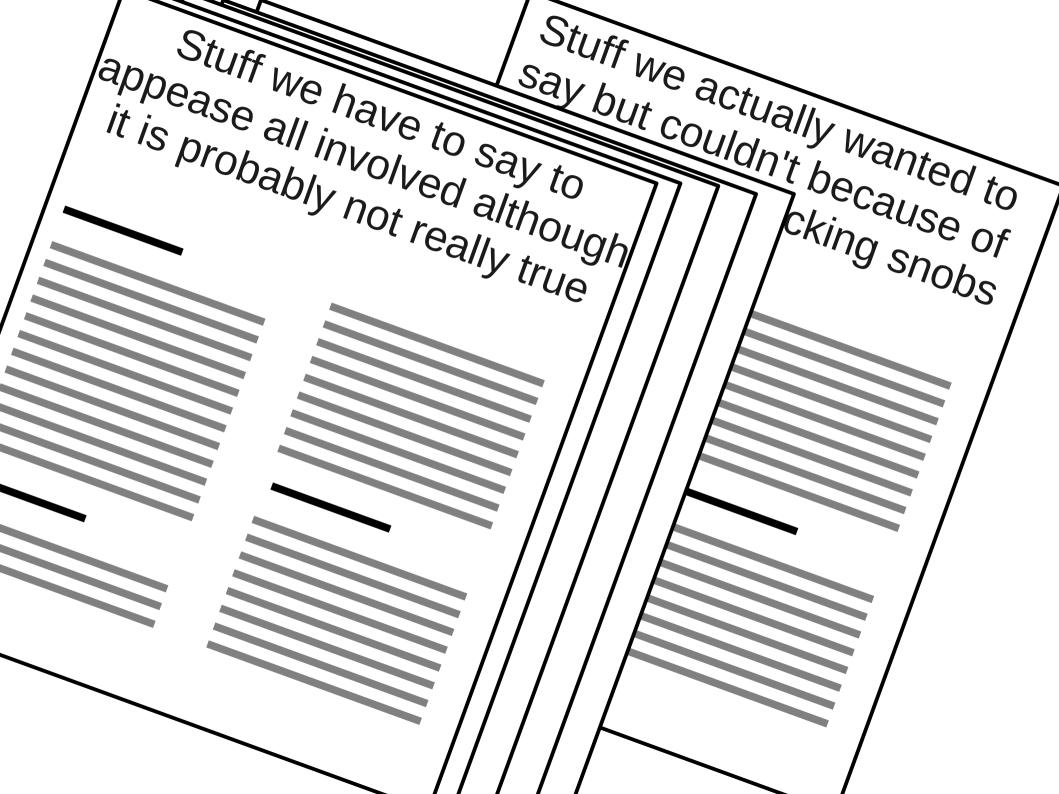
μGC3: Moore for Less:

Performance-driven design for next-generation chip technology



μGC4: Building Brains:

Neurologically-inspired electronic systems



Science 2.0

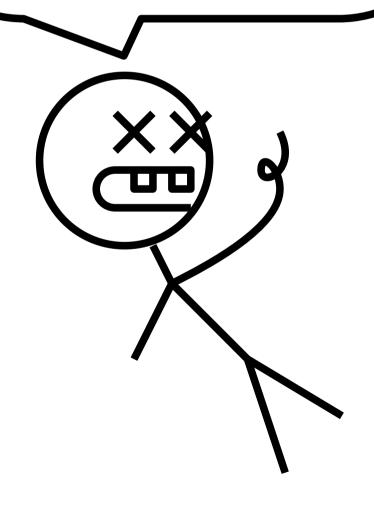
Then:

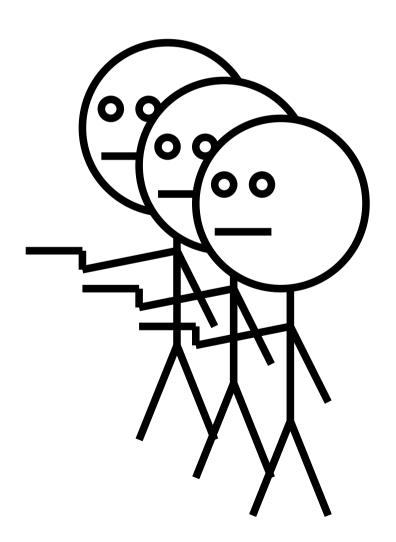
- Software
 - Closed waterfall model
- Media
 - Paid journalists
- Science
 - Multi-year projects with a massive final deliverable

Now:

- Software
 - Cyclic open-source model
- Media
 - Bloggers
- Science
 - Continuous collaborative open research clear results

Actually! Wikipedia IS full of lies, and bloggers make spelling mitsakes!





Summary

- To solve the grand challenges we need a revolution
 - Scientific community is geared for evolution
- When we make the breakthrough, we probably won't even notice
 - We might be stuck in a local minima forever
- I have no answers
 - Throughout human history, every stagnant society based on elitism was overthrown
 - We have never tried to examine the system

Some time for questions