When Containers Attack!

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microscaling systems


#1
Divers(ity) vs Monoculture

“Division of labour has caused a greater increase in production than any other factor.

This diversification is greatest for nations with more industry and improvement”

Adam Smith
“The Wealth of Nations” 1776

“ten persons, therefore, could make among them upwards of forty-eight thousand pins in a day. Each person, therefore, making a tenth part of forty-eight thousand pins, might be considered as making four thousand eight hundred pins in a day. But if they had all wrought separately and independently, and without any of them having been educated to this peculiar business, they certainly could not each of them have made twenty, perhaps not one pin in a day; that is, certainly, **not the two hundred and fortieth, perhaps not the four thousand eight hundredth part of what they are at present capable of performing**, in consequence of a proper division and combination of their different operations”

Adam Smith

Specialists

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Labour =

People (roles)

+

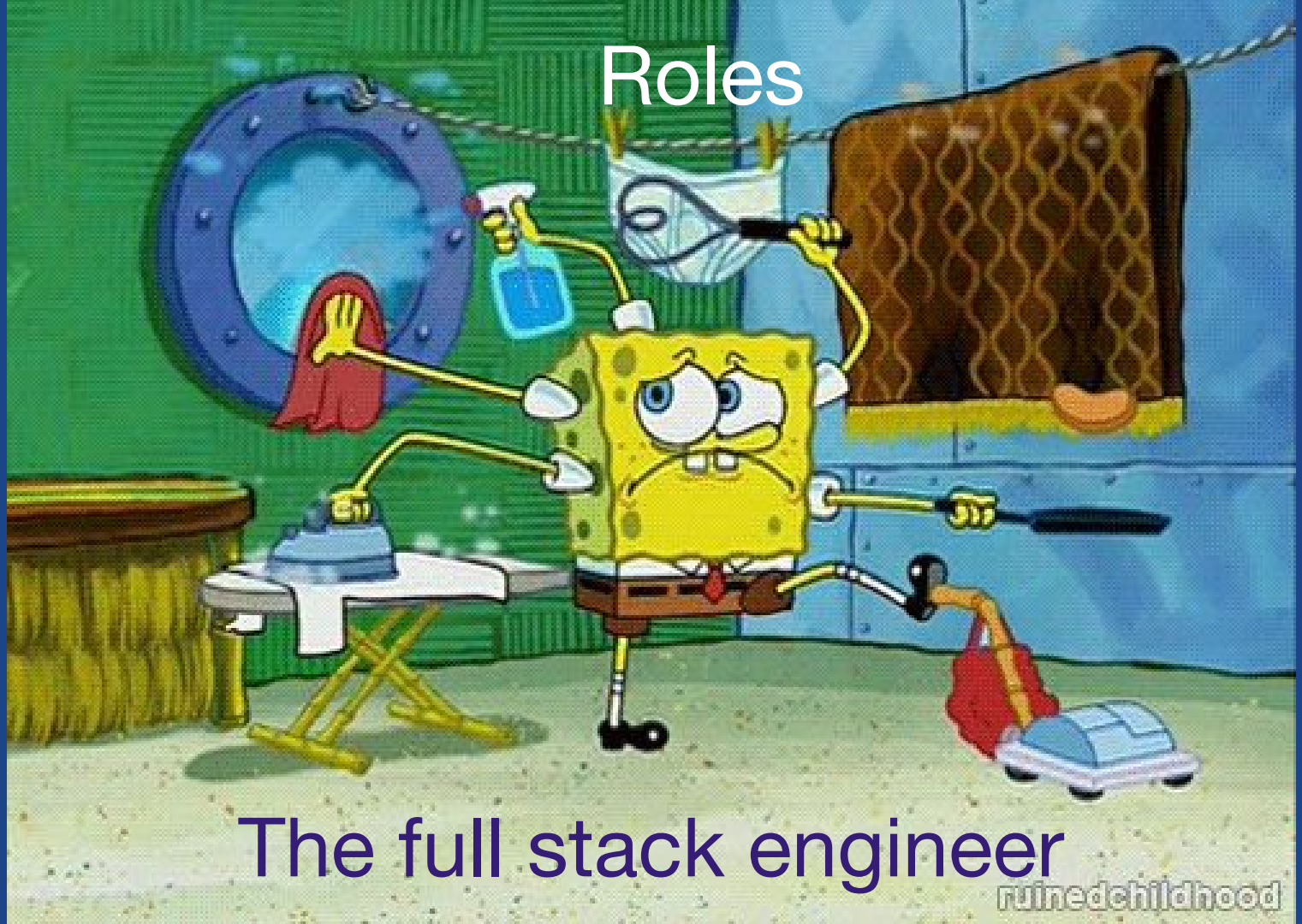
Technology

(Organised with process)

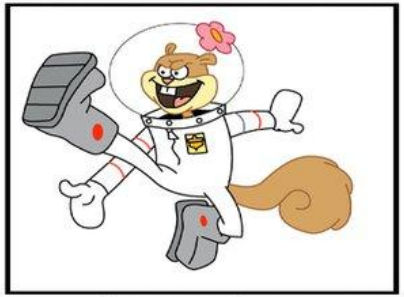
OK, so tech & role diversification was good during the Industrial Revolution.

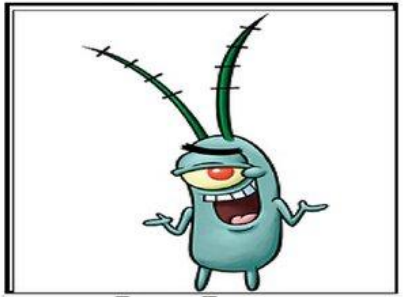
But what about the Software Revolution?

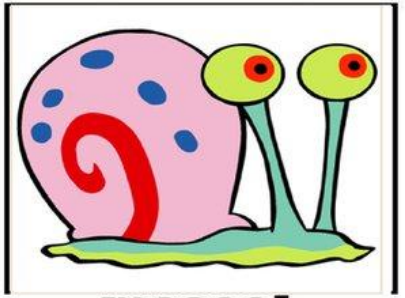
Roles



MY ZOMBIE APOCALYPSE TEAM







Or is the the full stack engineer required?

Technology

Specialist tech?
or
One stop shop?

In Search of the Killer Technology

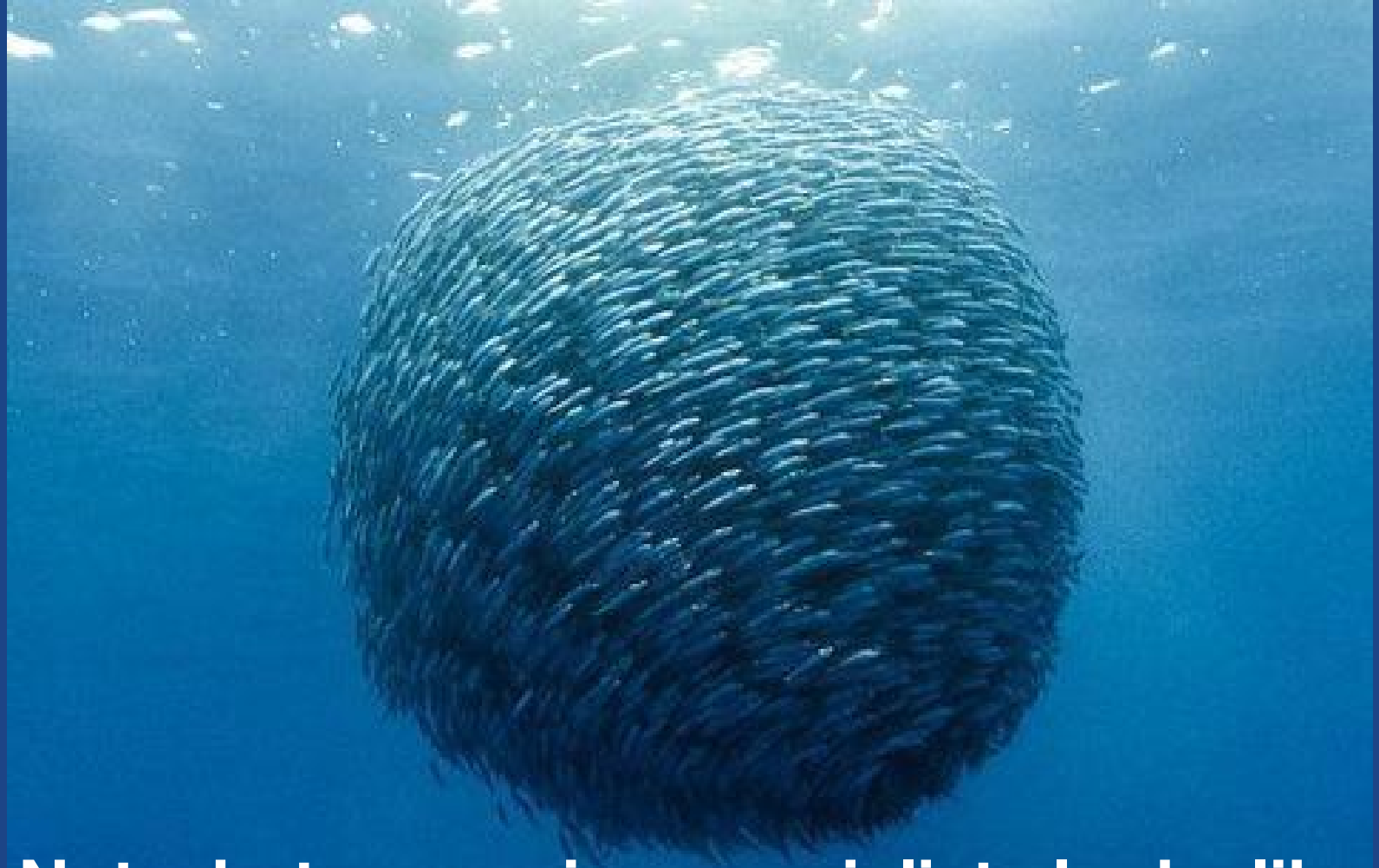

Conference speakers are professional enthusiasts
@anne_e_currie

Containers
Microservices
Unikernels
Serverless

Container Specialism

- Common packaging format & interface -> deployment speed, iterability, testability, team onboarding
- Fast instantiation/shutdown -> ops automation

There is no perfect technology for everything



Not what managing specialists looks like

Are cloud services our industrial revolution specialists?

Lock-in is not always the scariest option

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Tech diversity key to industrial revolution -> +1000x productivity thru specialisation

Hard with evolving requirements or small companies

Q: Is modern equivalent cloud services?

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