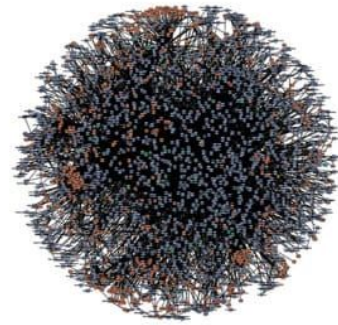


Dealing with Team Dependencies



amazon.com



NETFLIX

Diego Pacheco

About me...



- ☐ *Cat's Father*
- ☐ *Head of Software Architecture*
- ☐ *Agile Coach*
- ☐ *SOA/Microservices Expert*
- ☐ *DevOps Practitioner*
- ☐ *Speaker*
- ☐ *Author*



diegopacheco



@diego_pacheco



<http://diego-pacheco.blogspot.com.br/>



<https://diegopacheco.github.io/>

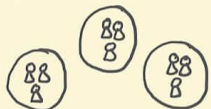
Accepting Conway's Law

PARAPHRASED

CONWAY'S LAW

THE STRUCTURE OF SOFTWARE WILL MIRROR THE STRUCTURE OF THE ORGANISATION THAT BUILT IT *for example*

ORGANISATION



SMALL DISTRIBUTED
TEAMS

are more likely
to produce



SOFTWARE



MODULAR, SERVICE
ARCHITECTURE



LARGE COLOCATED
TEAMS



MONOLITHIC
ARCHITECTURE

sketchplanations

1967



Kate has lived in Chinatown for over 40 years. She homebakes, sews, and photographs.

DECEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4 ☾ 3rd Quarter Moon	5	6	7
8	9	10	11	12 ● New Moon	13	14
15	16	17	18 ☾ 1st Quarter Moon	19	20	21
22	23	24	25	26 ○ Full Moon	27	28
29	30	31				
			Christmas Eve	Christmas Day		
			New Year's Eve			

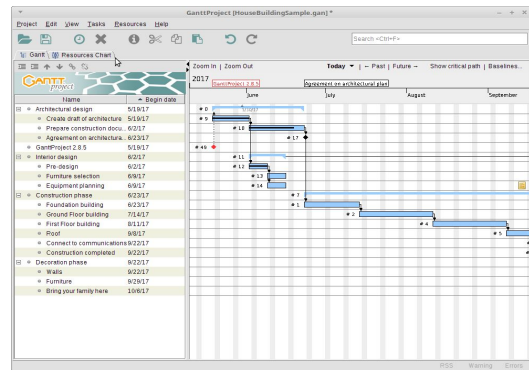
2019

EVIL GRANDMAS

A21

Release Calendar
/ Release Trains
(fixed 2 in 2 weeks
release)
ARE
EVIL !!!

Do nothing and Keep ignoring the problem.



Possible Solutions?

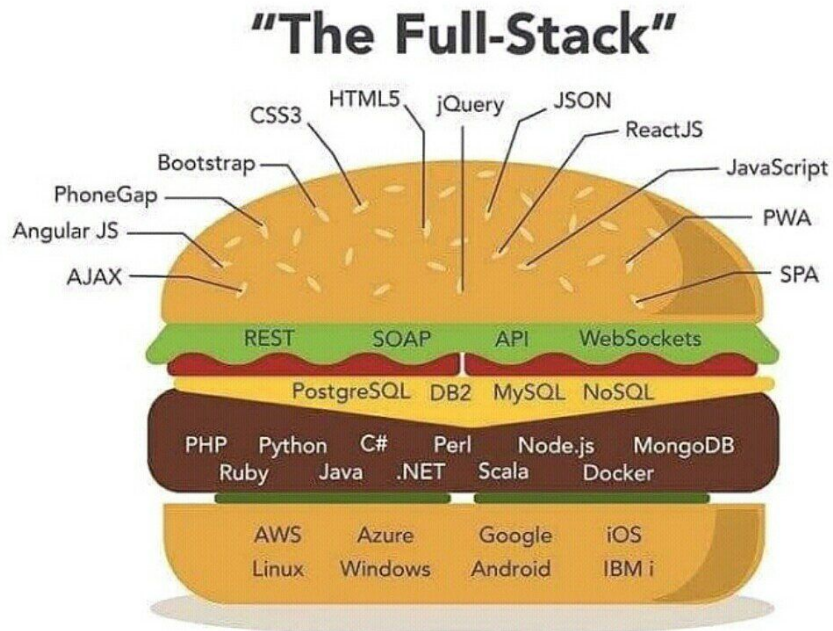
“There is nothing so useless as doing efficiently that which should not be done at all.”

Peter Drucker



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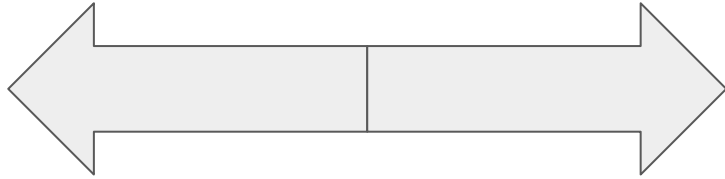
The Myth of Full Stack Engineer



Extremes create issues




Monolith



*Distributed
Monolith*

Real Solutions

A photograph of a man walking on a stage. He is wearing a dark long-sleeved shirt and light-colored trousers. He is walking from left to right. In the background, a large screen displays the text "It just works" in white. The stage is dark, and there are blue spotlights illuminating the man and the screen. The text "It just works" is written in a bold, sans-serif font.

"It just works"

Inner source at Microsoft

High-performing teams thrive when the culture enables inner sourcing - the sharing of knowledge, skills and code inside the organization.

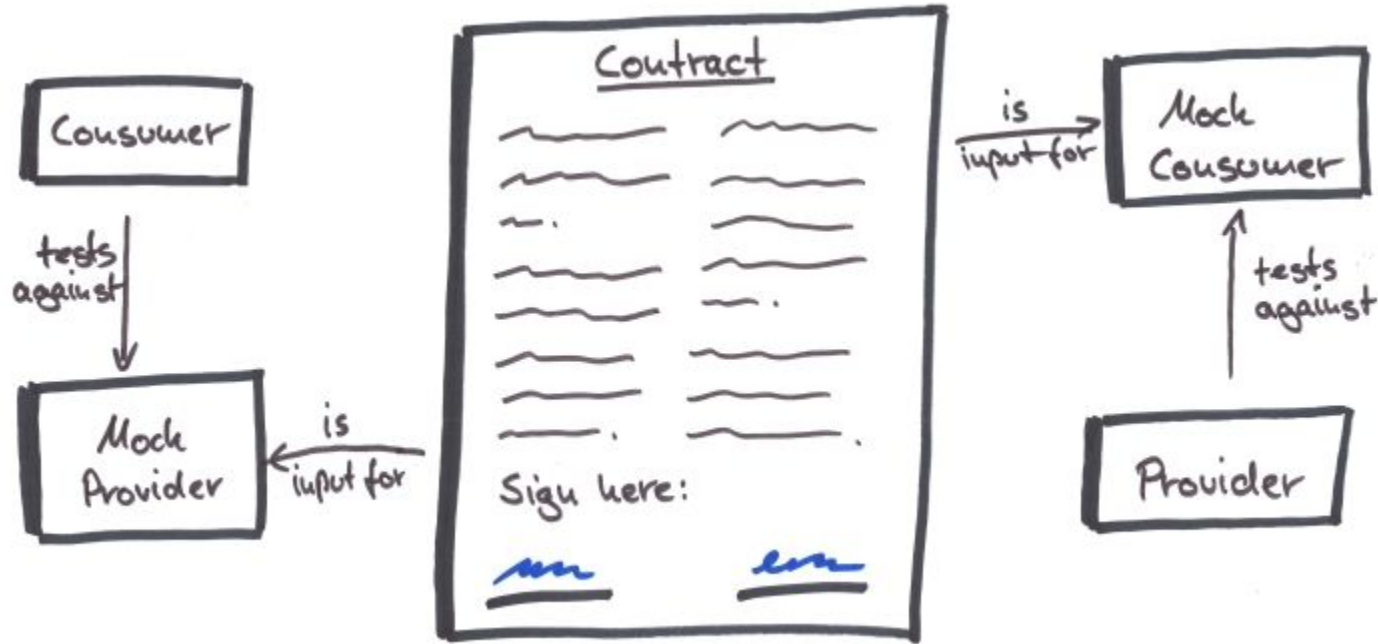
- Changed incentives to encourage sharing
- Made sharing with the org the default
- Support cross-org fork and pull request workflows

GitHub

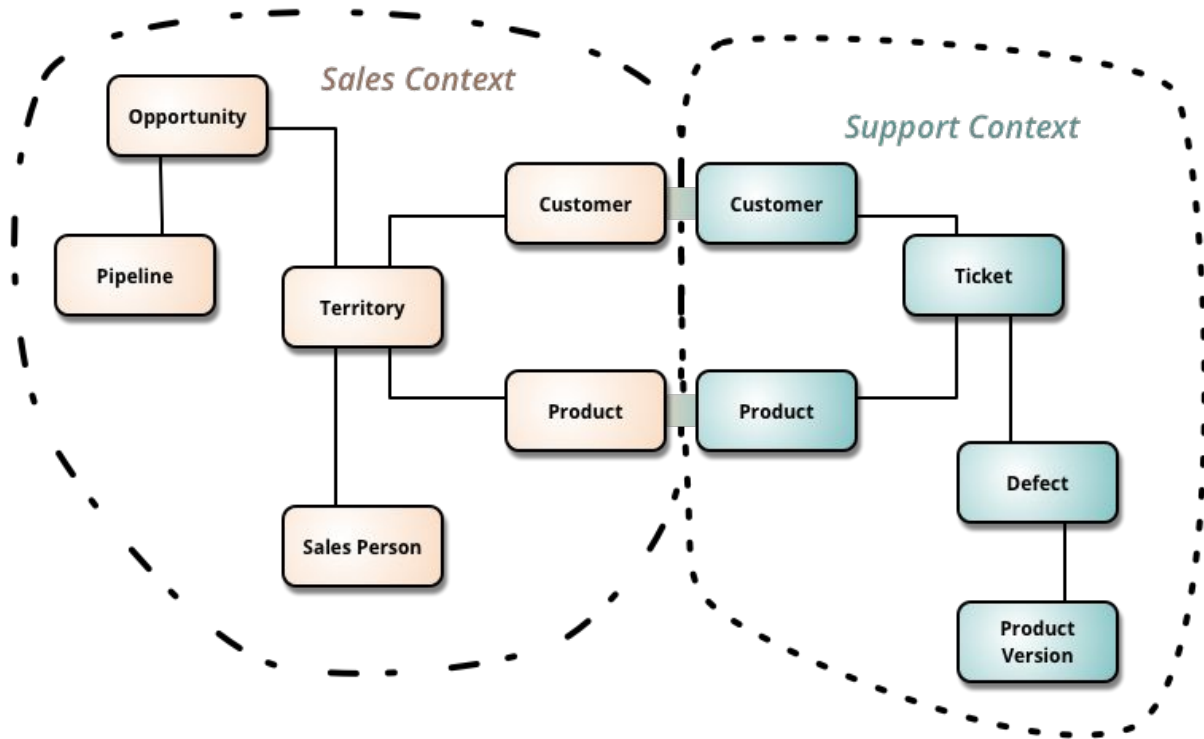


Measuring Impact at Microsoft

Contracts and Mocks



Re-Structure and DDD



Step 4

Two-pizza team

Teams of 8 to 10



Applications



Infrastructure



Leadership



Security



Operations



Achieve speed and agility
with **two-pizza teams**, while retaining
reporting structures

Lean Shared Libs



DEPENDENCY



Duplication is fine

Self-Service Platforms



Amazon Aurora

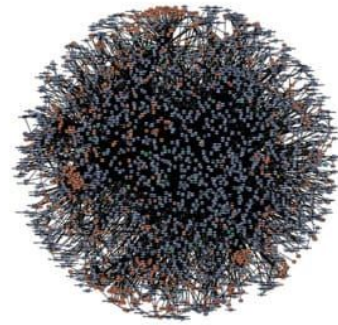


Jenkins



AWS Lambda

Dealing with Team Dependencies



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