“Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.”

– Albert Einstein
A LONG TIME AGO IN A GALAXY FAR, FAR AWAY...
1950s-1970s
EARLY ADVANCES
1950s-1970s
EARLY ADVANCES

1950s-1970s
EARLY ADVANCES
2001-2002
AGILE
MANIFESTO

1950s-1970s
EARLY
ADVANCES
1950s-1970s EARLY ADVANCES

2001-2002 AGILE MANIFESTO

2009 10+ DEPLOYS PER DAY
2001-2002: AGILE MANIFESTO

1950s-1970s: EARLY ADVANCES

WORKED FINE IN DEV

OPS PROBLEM NOW

2009

10+ DEPLYS PER DAY

WE SHOULD DO DEVOPS

#redhat #rhsummit
1950s-1970s
EARLY ADVANCES

2001-2002
AGILE MANIFESTO

2009
10+ DEPLOYS PER DAY

2011’ish’
AGILE IS A FAD

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WE'RE GOING TO TRY SOMETHING CALLED AGILE PROGRAMMING.

THAT MEANS NO MORE PLANNING AND NO MORE DOCUMENTATION. JUST START WRITING CODE AND COMPLAINING.

I'M GLAD IT HAS A NAME. THAT WAS YOUR TRAINING.
AGILE CHANGED HOW WE DEVELOP SOFTWARE
IT'S PEOPLE!!
“Fortunately, most human behavior is learned observationally through modeling from others.”

- Albert Bandura, Psychologist
1950s-1970s Early Advances

2001-2002 Agile Manifesto

2009 10+ Deploys Per Day

2011‘ish’ Agile is a Fad

2018+ Social Media is a Mainstay
2001-2002 Agile Manifesto

10+ Deploys per day

2011'ish Agile is a fad

1950s-1970s Early advances

2018+ Social media is a mainstay

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THE AGE OF INSTANT GRATIFICATION
The problems we are trying to solve become increasingly complex every day...
The workforce is training itself into increasingly shorter attention spans...
Solving complex problems requires **focus**, and we are losing the ability to focus.
Delayed gratification is a muscle strengthened through practice
Behavior is driven by two forces:

1. Driving forces
   Push you in a specific direction

2. Restraining forces
   Prevent you from going there
“First: Diminish restraining forces
Second: Increase the driving forces”

-Kurt Lewin
OPEN SOURCE PRACTICES
FOSTER DELAYED
GRATIFICATION
Open Source allows us to solve complex problems at a scale otherwise impossible.
Open Source development is asynchronous which forces self-control and delayed gratification
Automate the repetitive, dopamine laden, busy work
EFFECTIVE TEAMS ARE PART HUMAN, PART MACHINE
MACHINES OWN WORK
If automation is *siloed*, you’re doing it wrong
Tests teach machines what is right and wrong.
Does your automation self-validate?
Your automation will often be unique to the team.
Training machines must be as easy as training a human
LEADERSHIP TAKES AN ACTIVE ROLE IN CARE AND FEEDING OF HUMAN AND MACHINE TEAM MEMBERS
Managers must learn to move away from command and control.
Managers will need to ensure teams embrace new technology.
Moravec's Paradox

Automation is unintuitive
Even when you know it’s unintuitive
Delayed gratification is a muscle strengthened through practice
Self-control is a muscle strengthened through practice.
Focus is a muscle strengthened through practice
INTERESTED IN MORE?

The impact of AI on software development and IT operations
TODAY at 4:30pm - 5:15pm - Moscone West 2103

Cyborg teams: Training machines to be contributors
WEDNESDAY at 4:30pm - 5:15pm - Moscone West 2020

Who needs a manager on a self-organizing team?
THURSDAY at 1:00pm - 1:20pm - Moscone West 2010
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THANK YOU

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