Grow Professionalism!

Olve Maudal



A key to succeed with software development is to create an environment where software engineers are really treated as professionals. In return software engineers should use the opportunity to always reach for new levels of professionalism. Allow professionalism to thrive within your organization.

In this talk I will discuss a cocktail of ideas like: burn your corporate coding standards, stay close to the value stream, get rid of metrics, prefer collective ownership, always train your strongest developers first, be transparent, remove mechanisms for shifting responsibilities, optimize for your 80% best developers, introduce slack, celebrate failures, and more...

Safety moment

The importance of a clean and functioning work environment

Suppose you are just going to make something nice for yourself...



then, really, anything will do. Even...



but, software development is usually about more than just making something nice for yourself.

It is usually about making something really fancy...









寿司 **sushi**

which one do you like best?









together with a large team of professionals...



for some demanding customer ...



You need a clean and functional work environment



Your codebase is like a kitchen.

Keep it clean and functional so that you can create spectacular solutions for your demanding customers!

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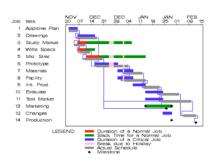
There used to be a time, when it was believed that anyone could do software development



after all, how hard could it be, it was just about programming a computer...



1) get some smart people to analyze the problem



2) create a plan



3) find resources



4) execute according to the plan

and when projects failed

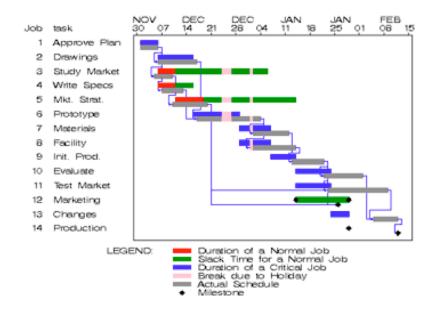


the respons was always:

do more up-front analysis



create a more detailed plan



find more resources



and make sure that everyone followed the plan



but the projects still failed

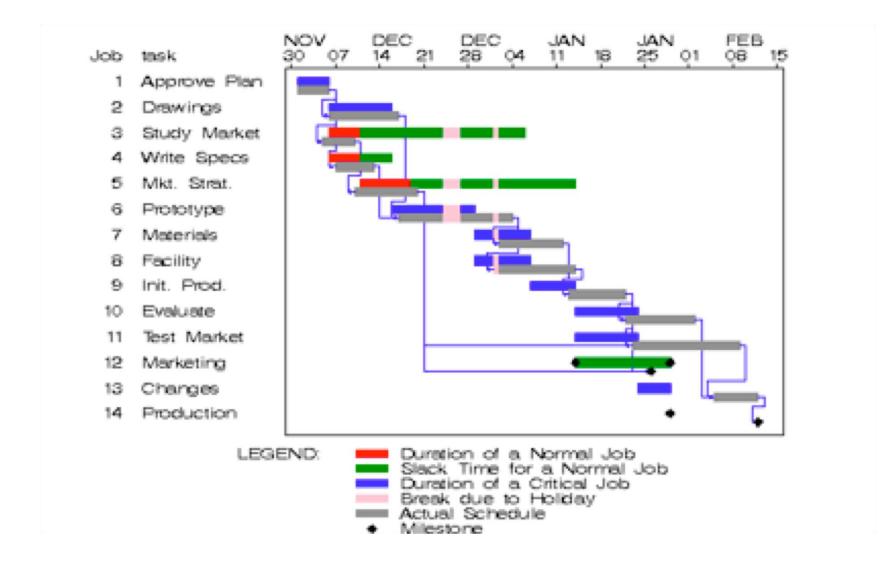


and the respons was, as always...









but of course...

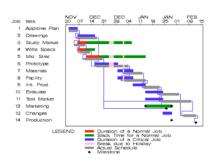


Dark ages of software development (early 80's to late 90's)





1) get some smart people to analyze the problem



2) create a plan



3) find resources



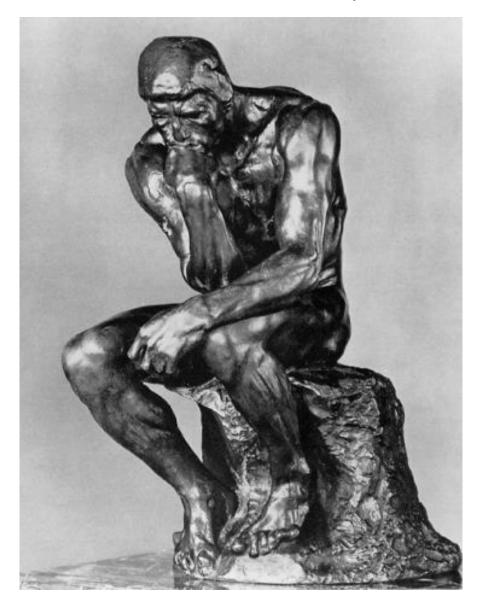
4) execute according to the plan

We had only discovered a fancy way of playing the "scabby queen" game, also known as the "Old Maid" or "Svarte Per", always try to "save your ass" by delegating responsibility to someone else.

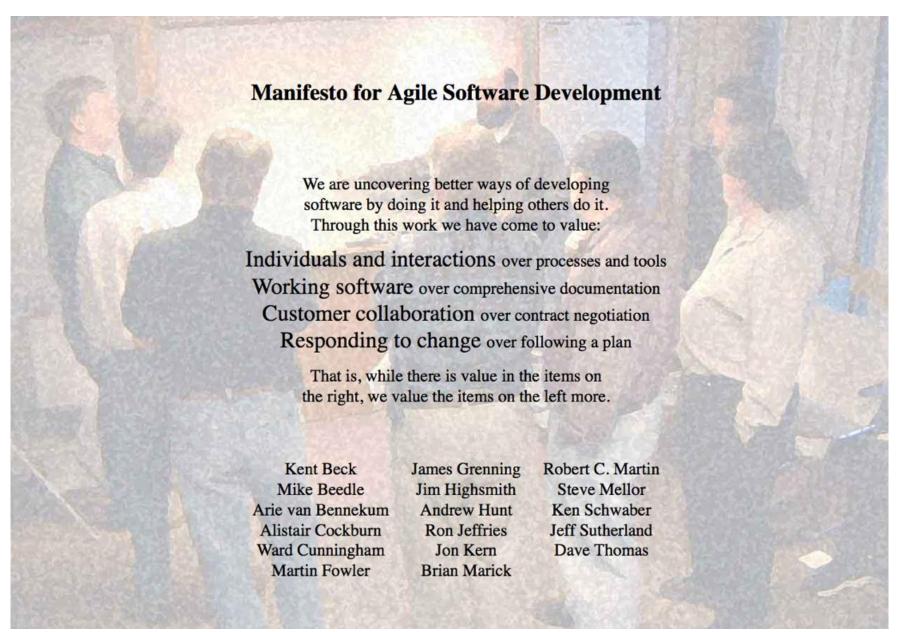




There must be a better way...



The Agile Manifesto (2001)



Individuals and interactions over processes and tools Working software over comprehensive documentation Customer collaboration over contract negotiation Responding to change over following a plan

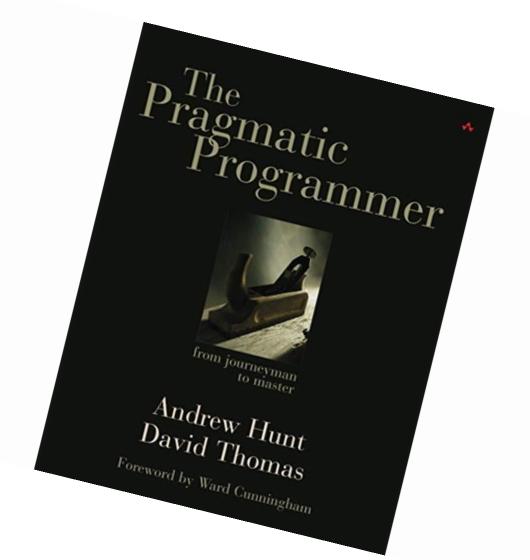
Individuals and interactions over **processes and tools**Working software over **comprehensive documentation**Customer collaboration over **contract negotiation**Responding to change over **following a plan**

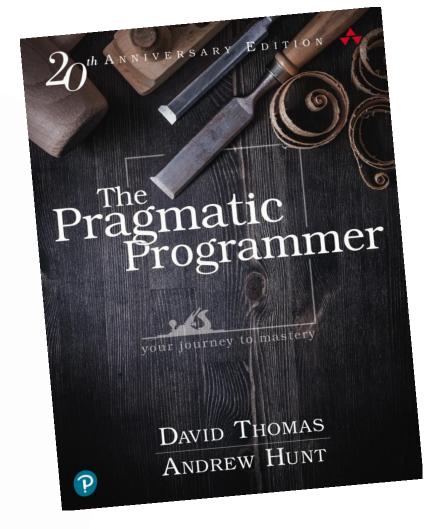
Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

The agile manifesto started a huge awakening process in the software industry...



(picture from the 1990 film Awakenings)





1999 2019

Grow Professionalism!

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get all of manhateness for stalling responsibilities according

a cocktail of topics related to Professionalism

Effectiveness

VS

Efficiency









Introduce slack to become more effective!



100% full = high efficiency, very low effectiveness 50% full = high effectiveness, moderate efficiency

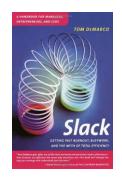


The more difficult tasks you need to solve, the more slack you need



Taking breaks to "sharpen your saw" is often very effective

If your company's goal is to become fast, responsive, and agile, more efficiency is not the answer--you need more **slack**. (Tom DeMarco)

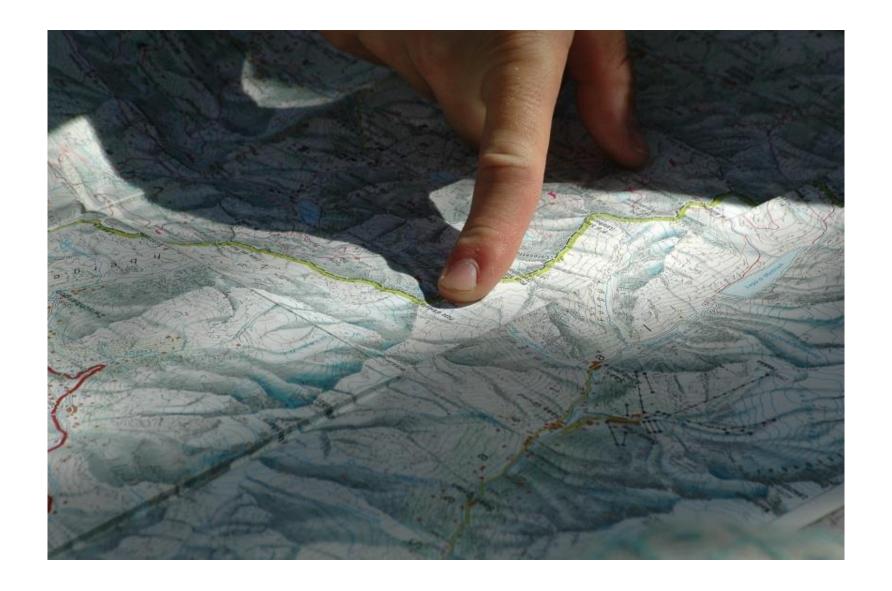


Trust









Management by objectives is... a disaster!



Deming states unequivocally that merit reviews, by whatever name, including management by objectives, are the single most destructive force in American management today.

Constraints and direction



The observer effect



When observing a programmer, he/she is much more likely to add code than to delete code. Also, you can nearly guarantee that they will not shut their eyes and think carefully about things.



Pull vs Push





Money flow and turbulence





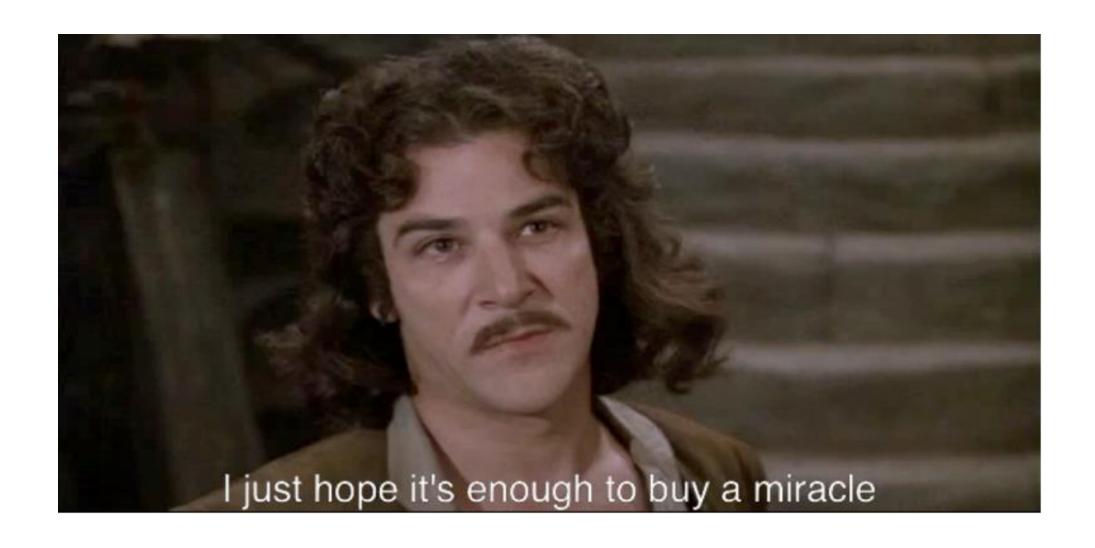
Midnight cowboys and sustainable pace





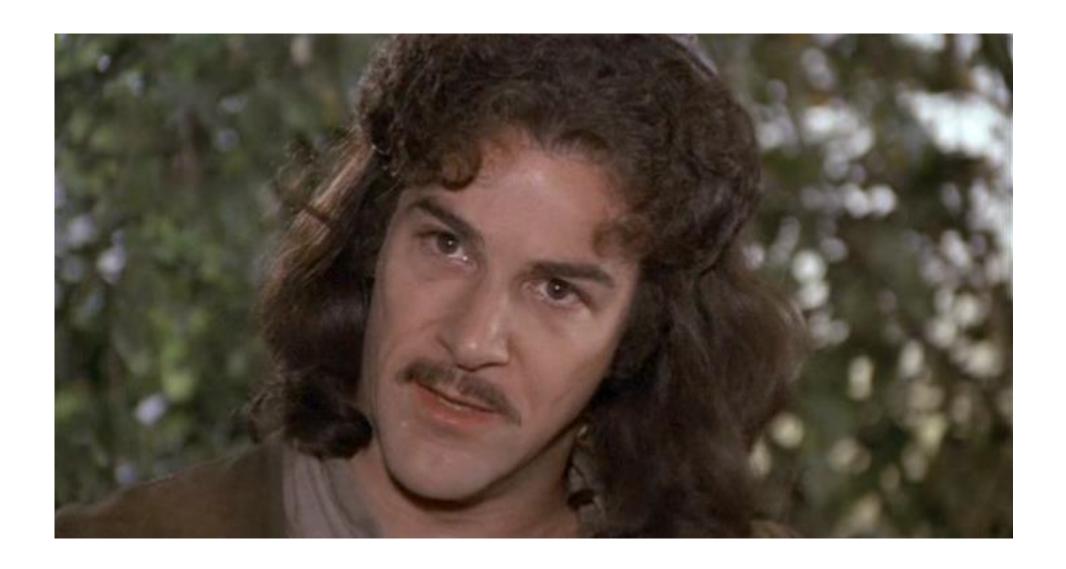


Inigo Montoya





Miracle Max



Inigo: We need a miracle. It's very important.



Inigo: We're in a terrible rush.

Miracle Max: Don't rush me, sonny.

You rush a miracle man, you get rotten miracles.



http://www.youtube.com/watch?v=1oWAtAWat4E

Inigo: I just hope it's enough to buy a miracle, that's all.

[Inigo knocks on the door. A face appears]

Inigo: Are you the Miracle Max who worked for the king all those years?

Inigo: We need a miracle. It's very important.

[after a while]

Inigo: Sir...sir??

Miracle Max: Huh?

Inigo: We're in a terrible rush.

Miracle Max: Don't rush me, sonny. You rush a miracle man, you get rotten miracles.

Do not rush miracles



Any sufficiently advanced technology is indistinguishable from magic.

Arthur C. Clark (third law)

Be open, transparent and honest



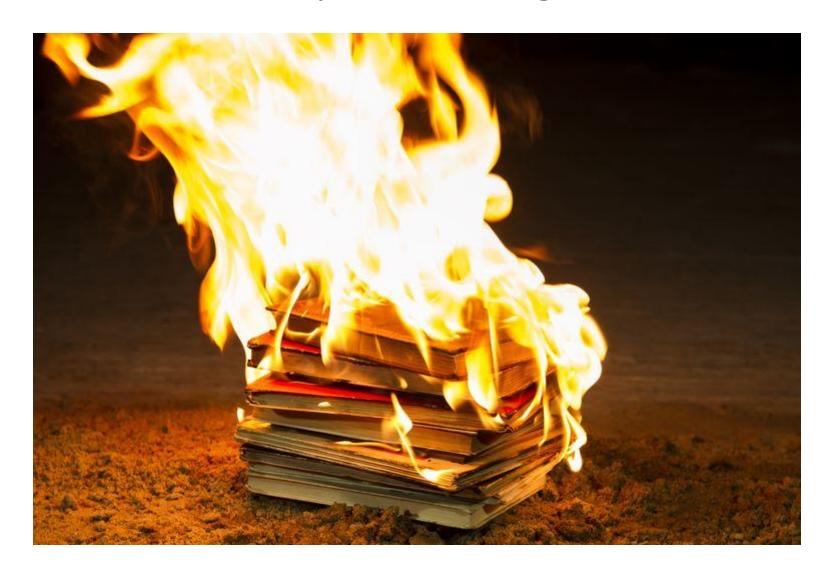


Celebrate learning



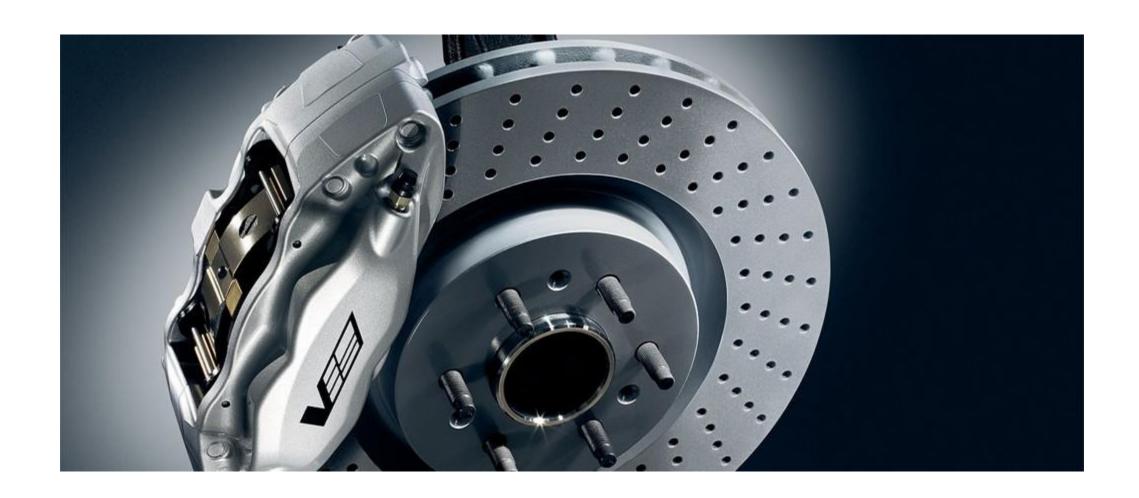


Burn the corporate coding standards

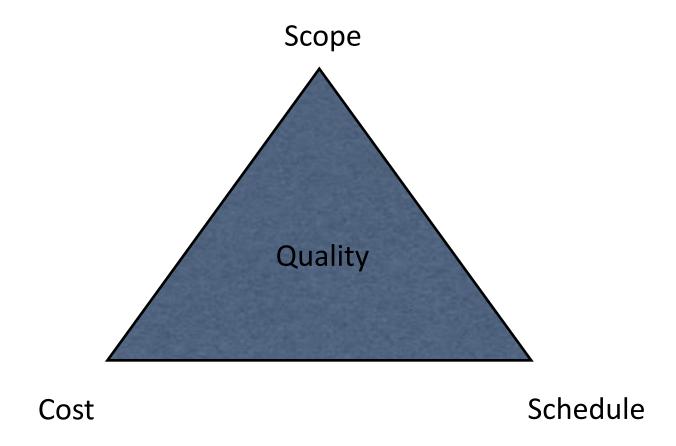


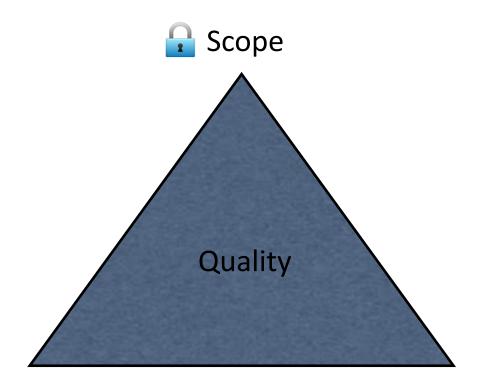
The corporate coding standard is usually written by some old-school developers that are not coding anymore.

Why do car have breaks?



"Fast, Good, Cheap. Pick two!"

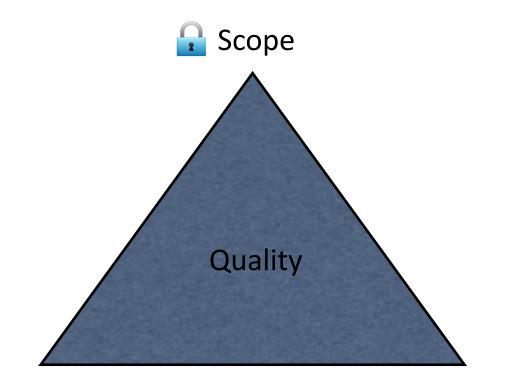




Cost



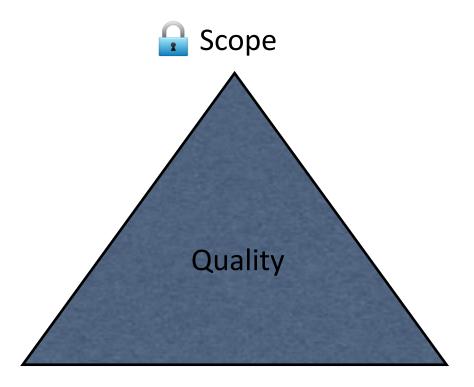








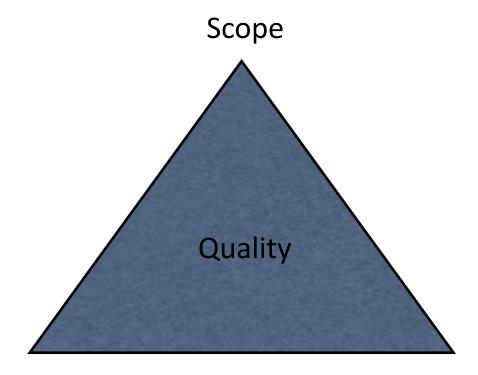












Cost



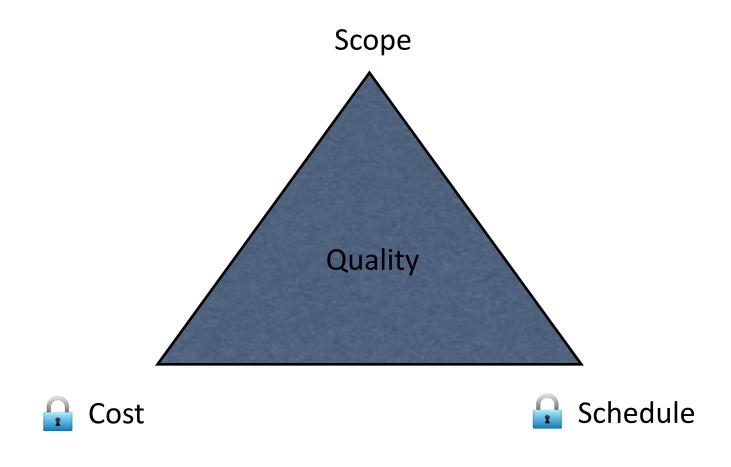
Schedule





IBM 5150 PC with <u>IBM 5151</u> monitor

Lock cost and schedule, but not scope



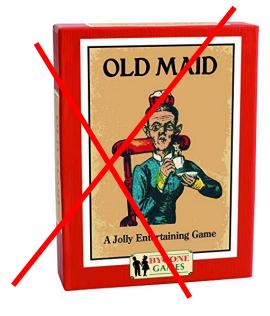
Training



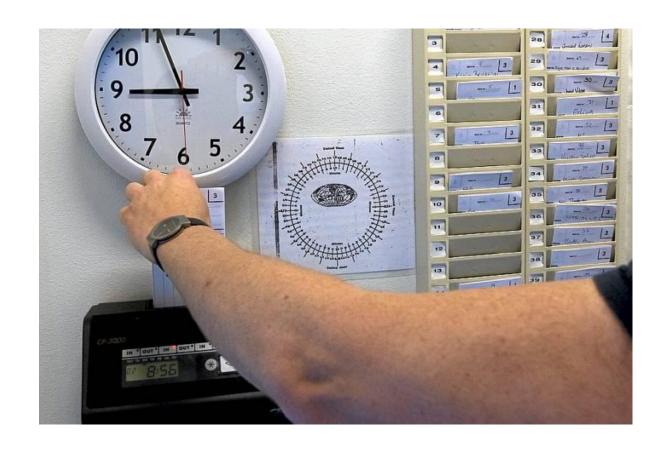
Always train your best developers first. The others will follow.

Remove mechanisms for shifting responsibility around



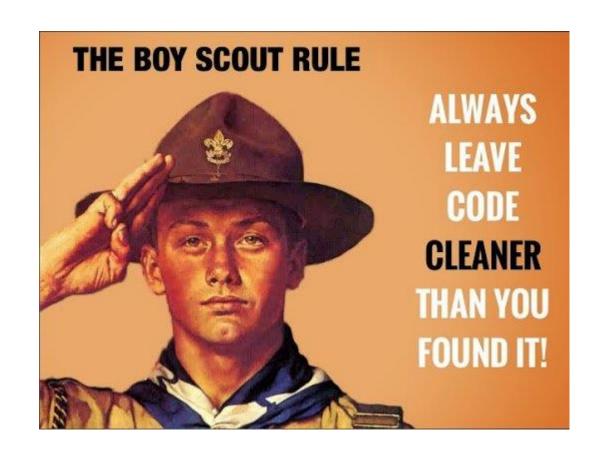






"What we don't do is treat our employees like they're all, you know, criminals,"

(Jenn Mann, SAS Institute)



Grow Professionalism!

make sure there is enough slack encourage teams and individuals to meet and spend time together instead of setting objectives, show your constraints and suggest a direction respect the observer effect, get rid of externally imposed metrics share your vision, never throw requirements "over the wall" pull value out of a system, do not push explain the business to everyone involved don't celebrate the midnight cowboys do not demand dates and estimates, aka "do not rush miracles" respect that software development is a learning process beware of governance and corporate coding standards abandon decision gates and commitments you may lock time and cost, but do not lock the scope train your best developers first

get rid of mechanisms for shifting responsibilities around

don't treat your employees as criminals

what *successful* organization need to do

think, use tools, create tools, focus on effectiveness share knowledge, collaborate, fremsnakke and extend trust boundaries align your efforts and make sure you all pull in the same direction make sure you have enough data to know where you are going understand the business, take overall responsibility for what you create deliver value early and often, continuously improve stay close to where the money is flowing, avoid the turbulence work in a sustainable pace, build quality in, celebrate your vision no sandbagging, be honest and be transparent, deliver magic establish fast and reliable feedback loops, celebrate failures stay up to date with current industry standards and best practice establish reliable breaking mechanisms, fail fast, stop or change direction deliver value early and often, without compromising the overall vision share your knowledge, teach, encourage others to follow your ideas be trustworthy, practice collective ownership and responsibility always do the right things

Grow Professionalism!

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