

Grow Professionalism!

Olve Maudal



A key to succeed with high-tech product development is to create an environment where engineers are really treated as professionals. In return the engineers must 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 engineers first, be transparent, remove mechanisms for shifting responsibilities, optimize for your 80% best engineers, introduce slack, celebrate failures, and more...

45 minute presentation + Q&A , Demo Day @ Huddly, 6. November 2020

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



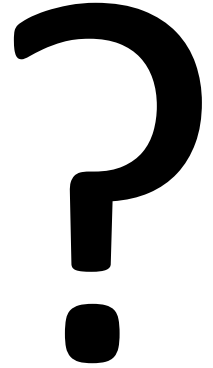
OLIVE OIL

fresh summer savory leaves and
garlic, bay, and lemon juice
the fish

pieces of roasted pepper in olive oil, minced
thyme. Serve over pasta or rice

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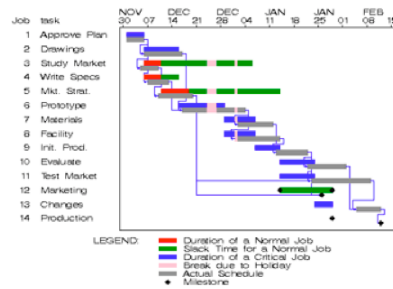
There used to be a time, when it was believed that anyone could do software development



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

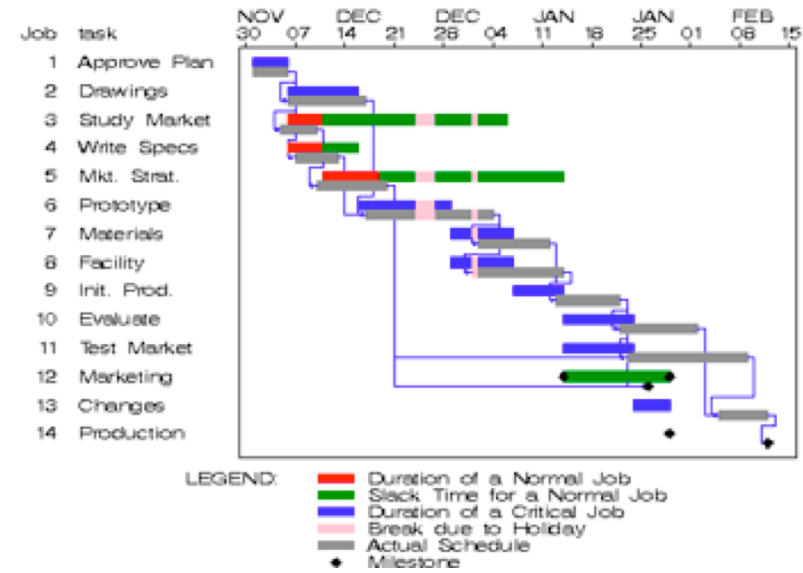


the respons was always:

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

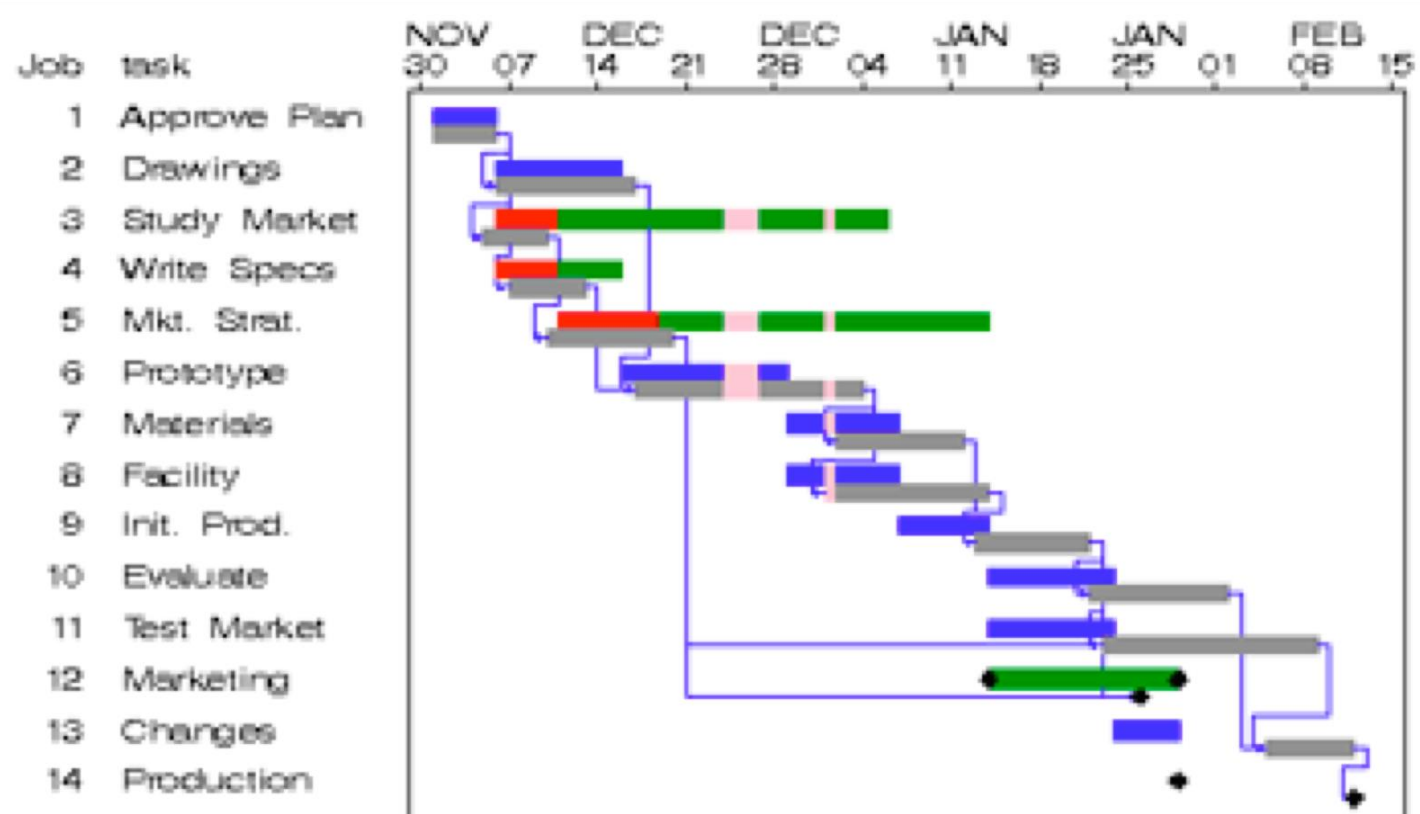


and the respons was, as always...









LEGEND:

- Duration of a Normal Job
- Slack Time for a Normal Job
- Duration of a Critical Job
- Break due to Holiday
- Actual Schedule
- Milestone

but of course...

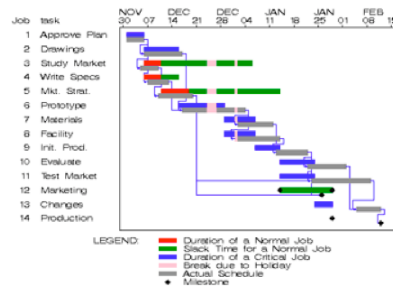


Dark ages of software development (early 80's to late 90's)





1) get some smart people to analyze the problem



2) create a plan



3) find resources

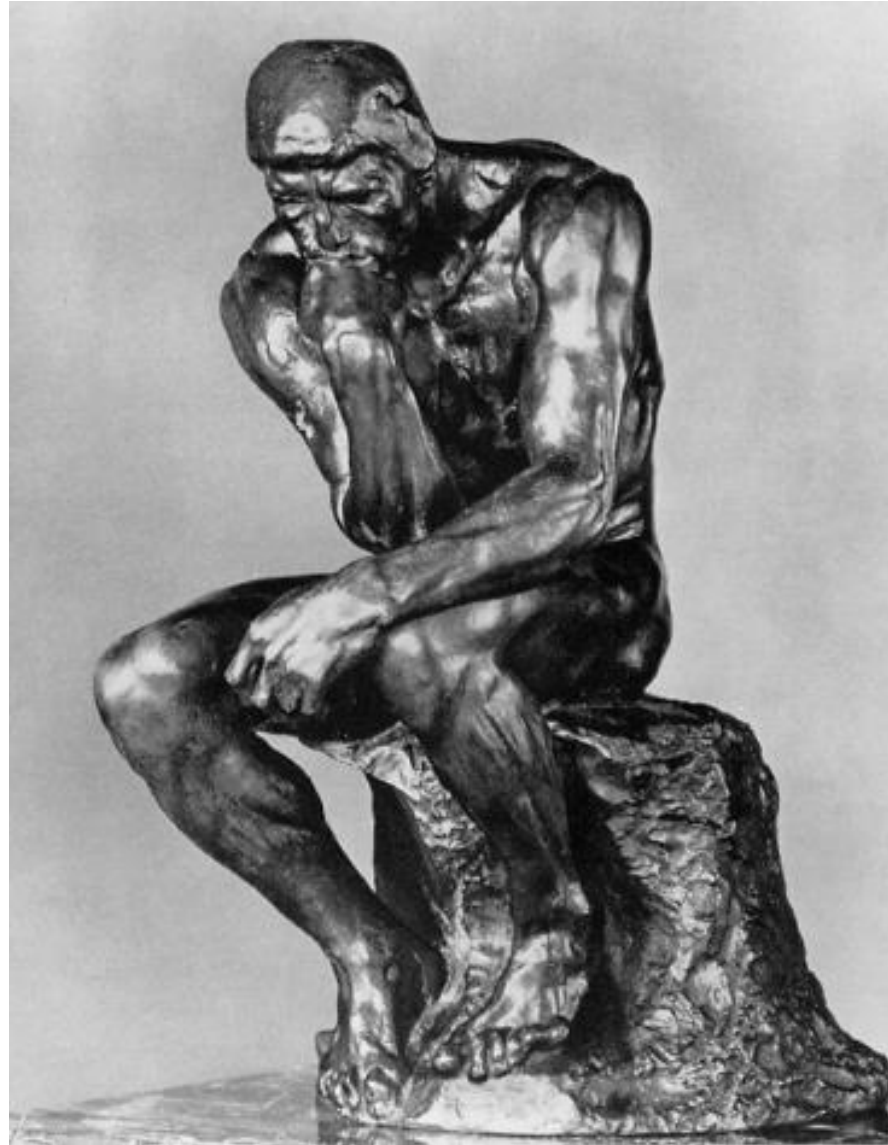


4) execute according to the plan

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)

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.
Through this work we have come to value:

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

That is, while there is value in the items on the right, we value the items on the left more.

Kent Beck
Mike Beedle
Arie van Bennekum
Alistair Cockburn
Ward Cunningham
Martin Fowler

James Grenning
Jim Highsmith
Andrew Hunt
Ron Jeffries
Jon Kern
Brian Marick

Robert C. Martin
Steve Mellor
Ken Schwaber
Jeff Sutherland
Dave Thomas

Individuals and interactions over processes and tools
Working software over comprehensive documentation
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Individuals and interactions over **processes and tools**
Working software over **comprehensive documentation**
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Individuals and interactions over processes and tools
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The agile manifesto started a huge awakening process in the software industry...



(picture from the 1990 film Awakenings)

Grow Professionalism!

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Make your team a strong unit

Encourage team members to work and spend time together

Establish a strong reputation, show your commitment and support a flexible

approach to the team effort, go out of your way to support others

Show your skills, show those responsible "how to do it"

Get into the act of a project, do not just

watch the business or company succeed

Don't believe the negative rumors

Be an honest open and confident, do "what you preach"

Support the culture development in a strong manner

Monitor development and support using methods

Monitor the team's progress and commitment

Get the best out of each team member, do not let the team

fall apart but develop the

spirit of each team member, taking responsibility around

Don't let your employees be divided

Work on your own, make sure, focus on effectiveness

Show knowledge, confidence, competence and sound team leadership

Help your efforts and make sure you do your part in the team effort

Make sure you have enough time to focus when you are going

understand the business, take overall responsibility for what you do

When you are busy and then, understand support

Be clear in what the team is doing, avoid the confusion

Work in a consistent way, build quality in, understand your role

Be willing to be honest with the company, when you

cannot see and what the best way, understand others

Be up to date with current industry methods and team progress

Monitor what is being achieved, do not stop or change direction

When you are busy and then, without compromising the overall team

Show your knowledge, work, encourage others to follow you when

it is necessary, practice effective leadership and responsibility

Work in the right way, work with others, always in a strong

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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

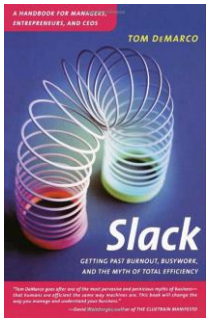


The more difficult tasks you need to solve, the more slack you need



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



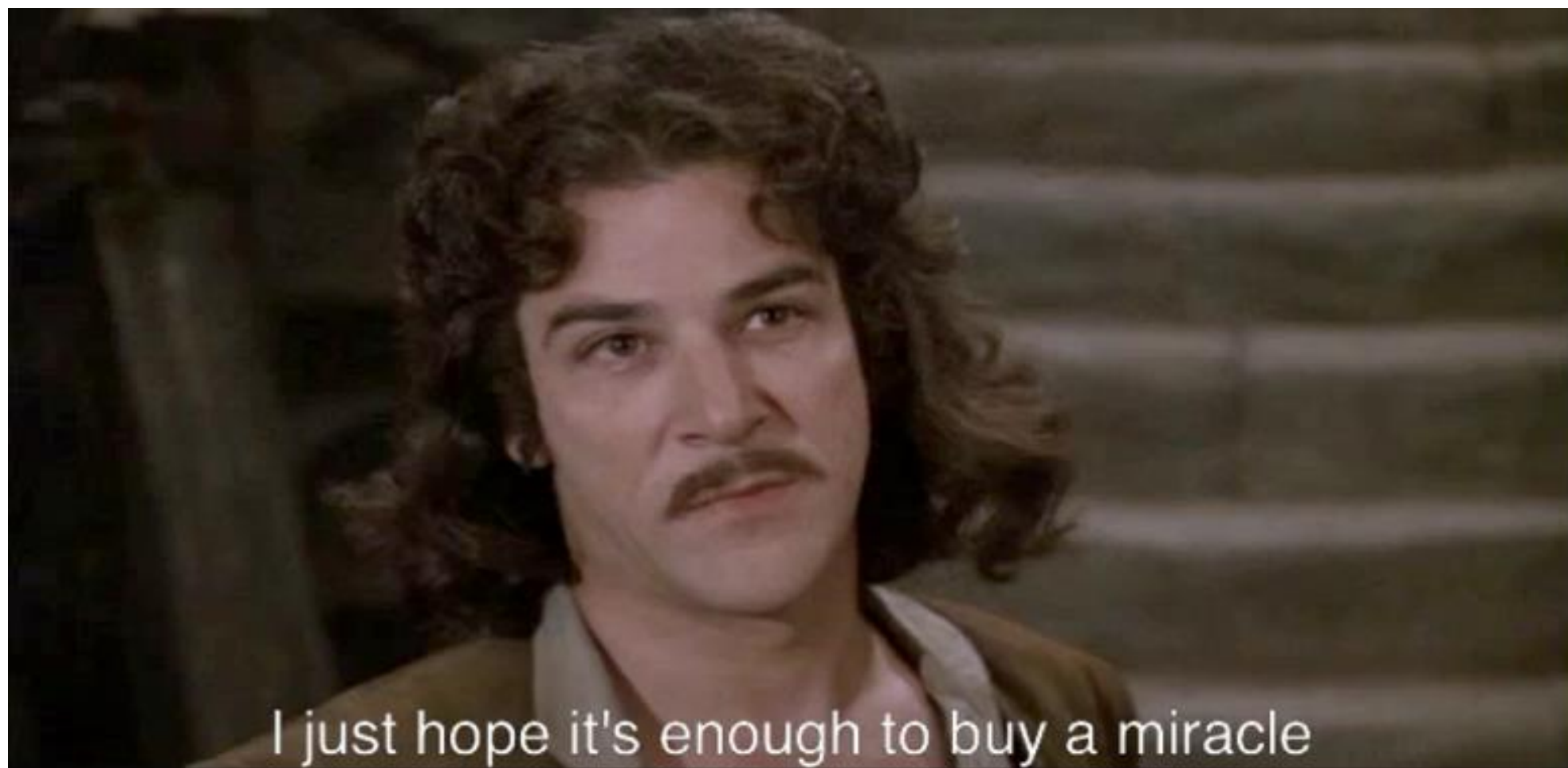
Midnight cowboys and sustainable pace



Do not rush miracles



Inigo Montoya



I just hope it's enough to buy a miracle



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]

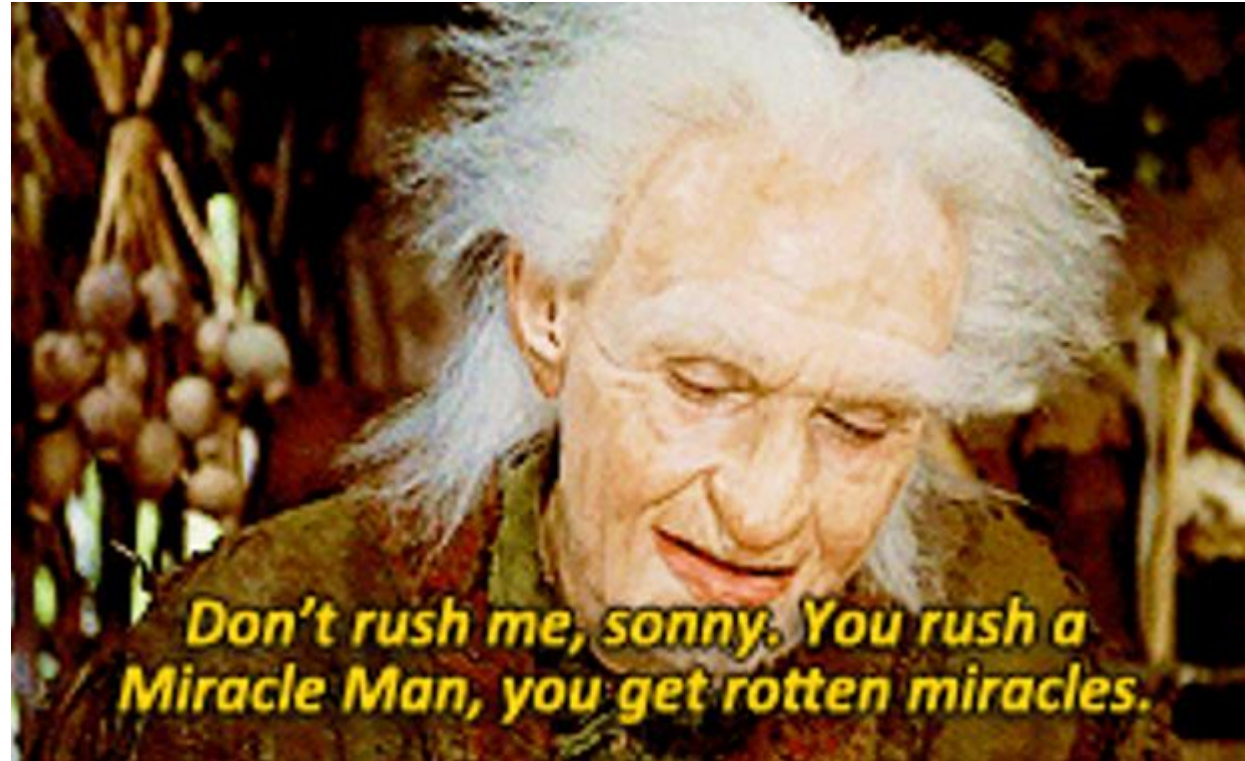
Inigo: Sir...sir??

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

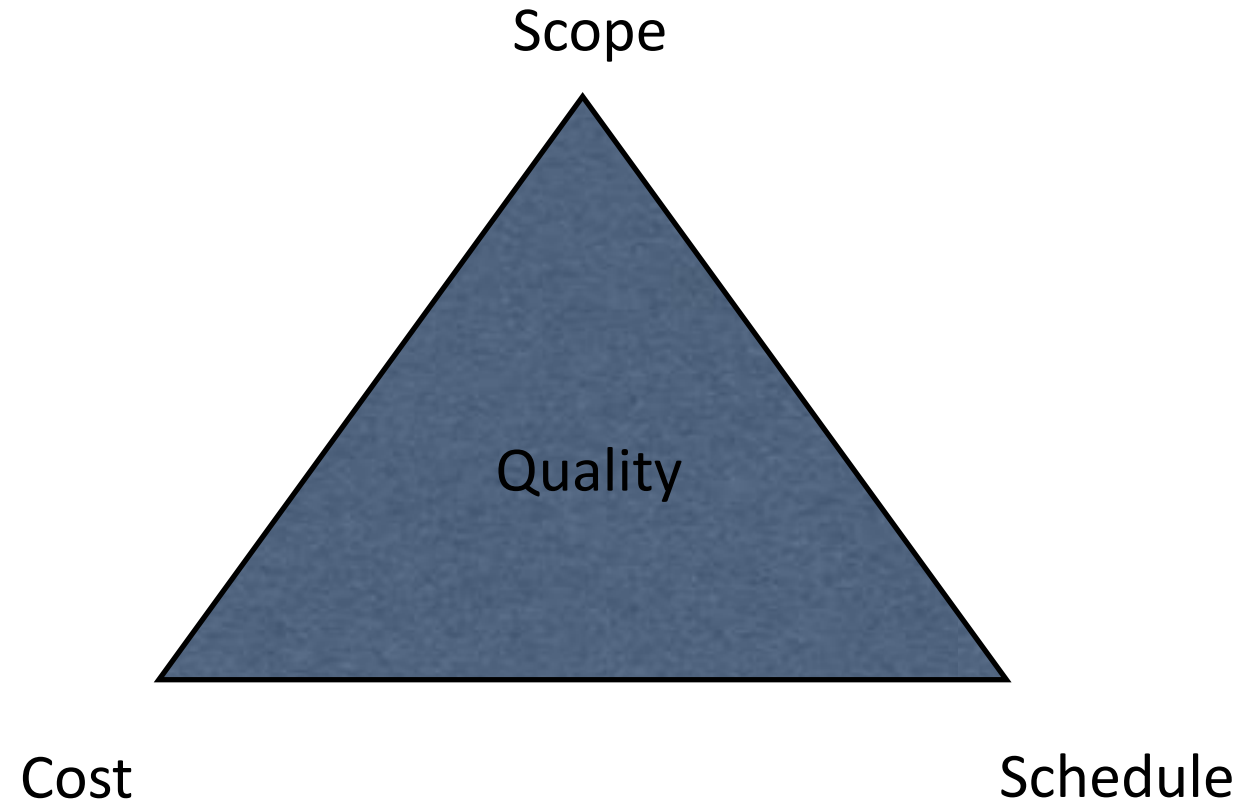


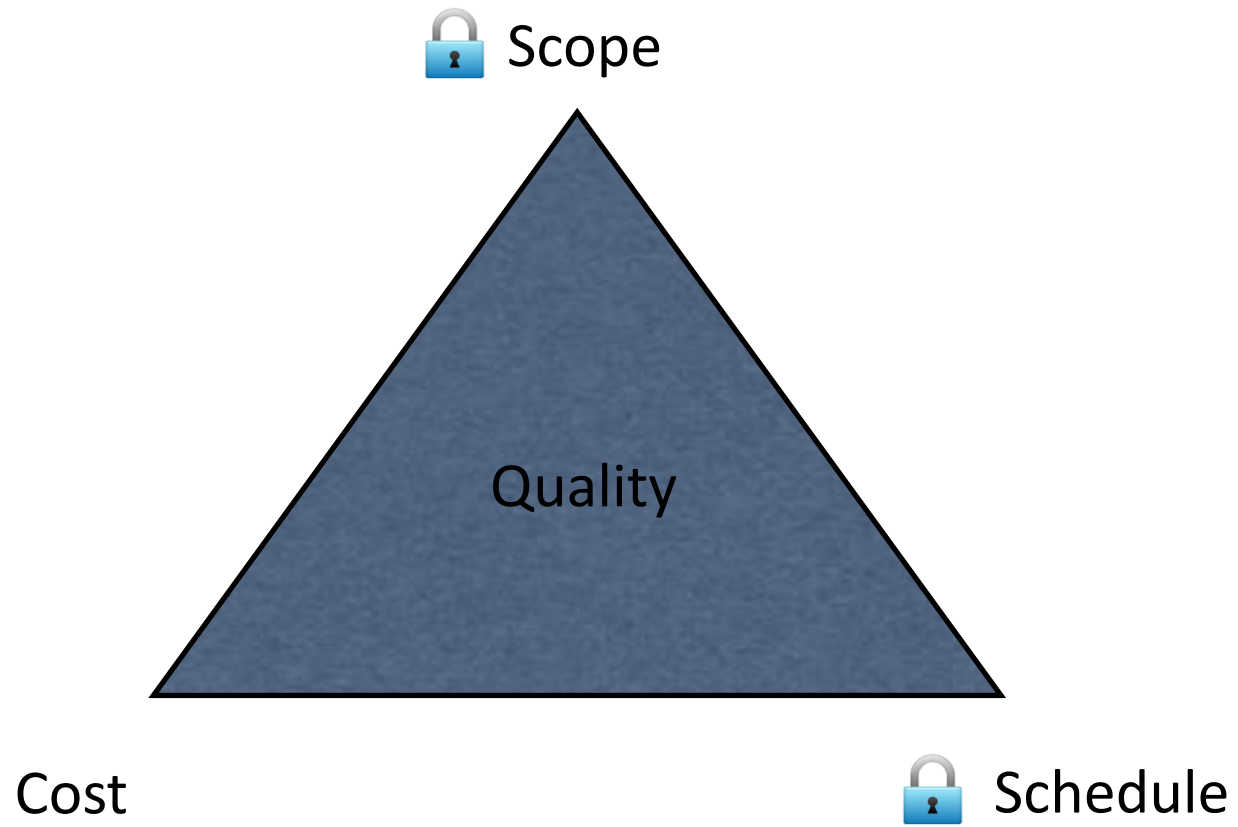
The corporate coding standard is usually written by some old-school developers that are not coding anymore.

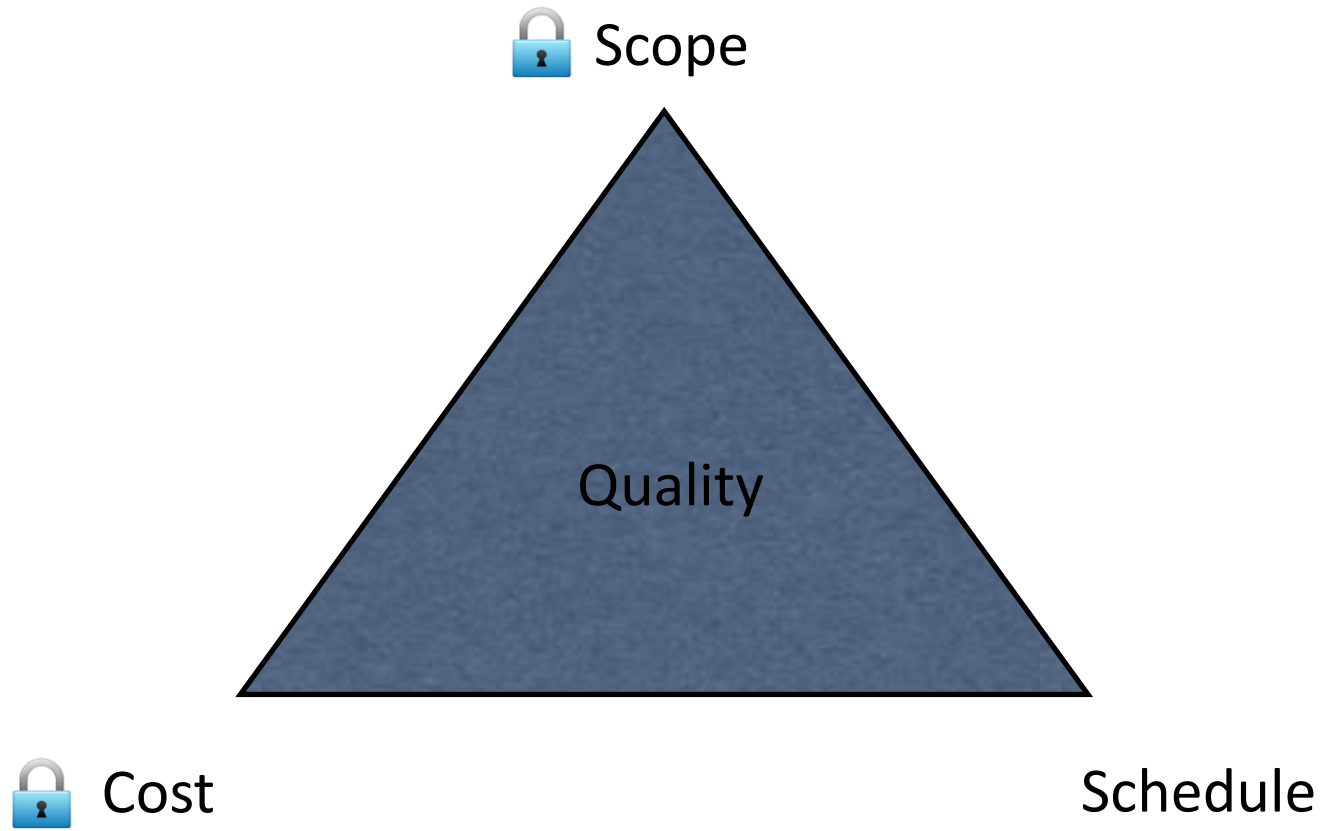
Why do car have breaks?



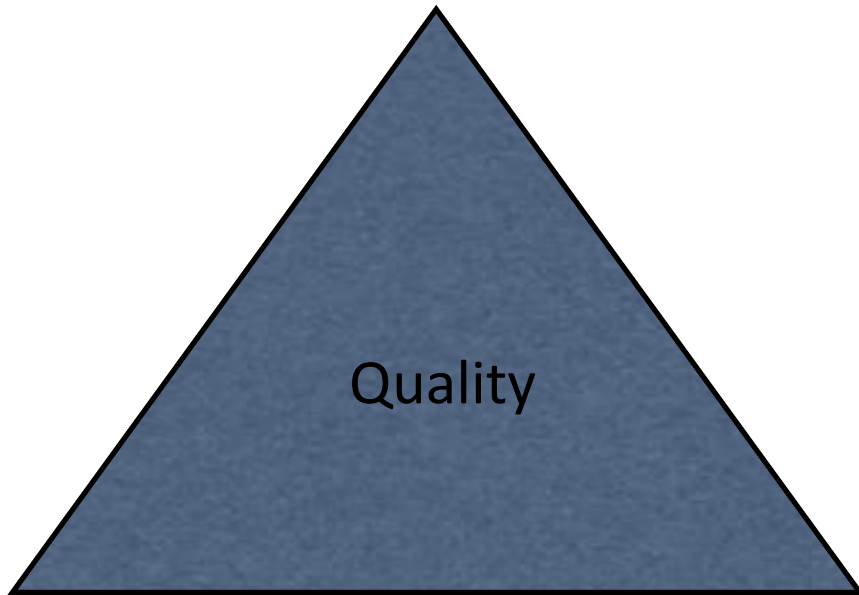
“Fast, Good, Cheap. Pick two!”







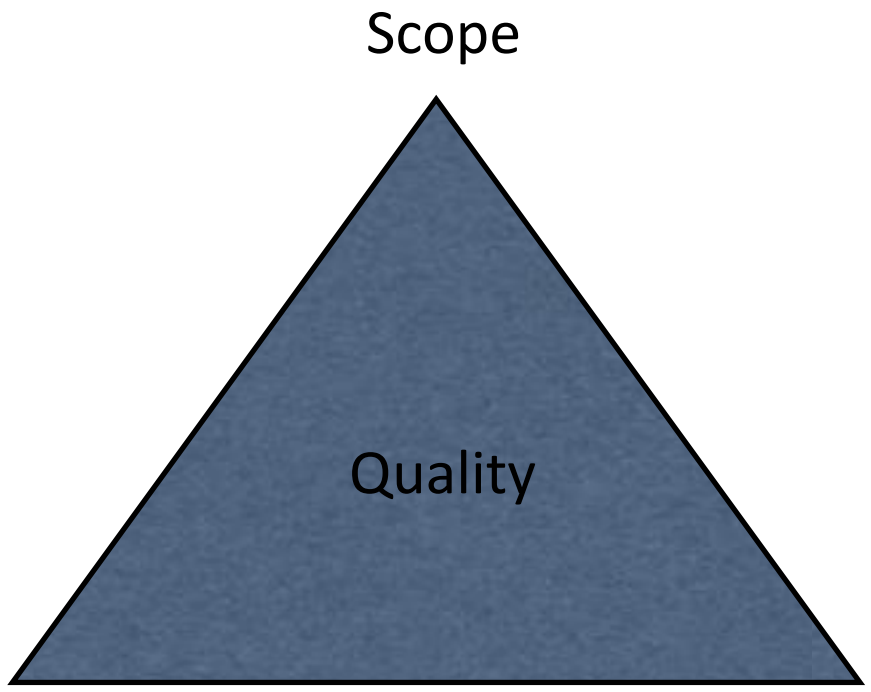
🔒 Scope



🔒 Cost

🔒 Schedule





IBM 5150 PC with [IBM 5151](#) monitor

Lock cost and schedule, but not scope

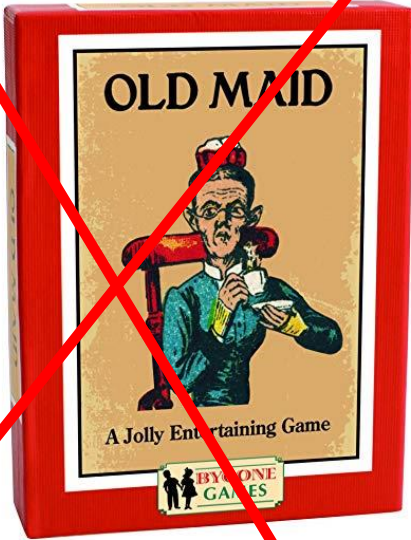


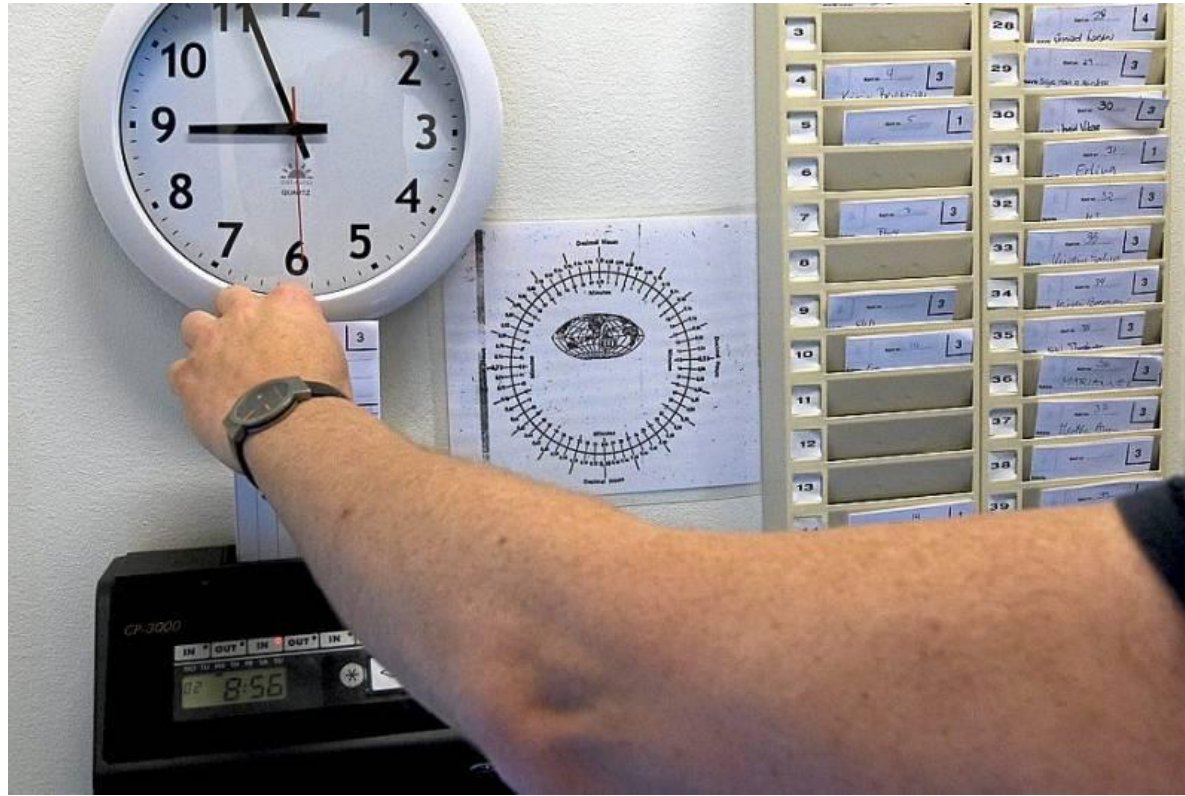
Training



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)

THE BOY SCOUT RULE



**ALWAYS
LEAVE
CODE
CLEANER
THAN YOU
FOUND IT!**

Grow Professionalism!

what successful organization need to do

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

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

what aspiring software craftsmen need do

Grow Professionalism!

what successful organization need to do

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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 (even when nobody is looking)

what aspiring software craftsmen need do