

AGILE: YOU KEEP USING THAT WORD...

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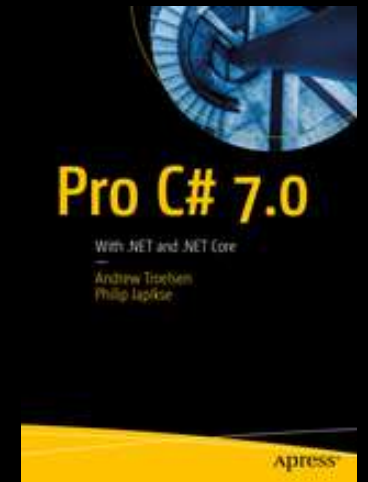
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Phil.About()

- Director of Consulting/Chief Architect
- Author: Apress.com (<http://bit.ly/apressbooks>)
- Speaker: <http://www.skimedic.com/blog/page/Abstracts.aspx>
- Microsoft MVP, ASPInsider, MCSD, MCDBA, CSM, PSM II, PSD
- Founder, Agile Conferences, Inc.
 - <http://www.cincydeliver.org>
- President, Cincinnati .NET User's Group



AGILE MANIFESTO

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.

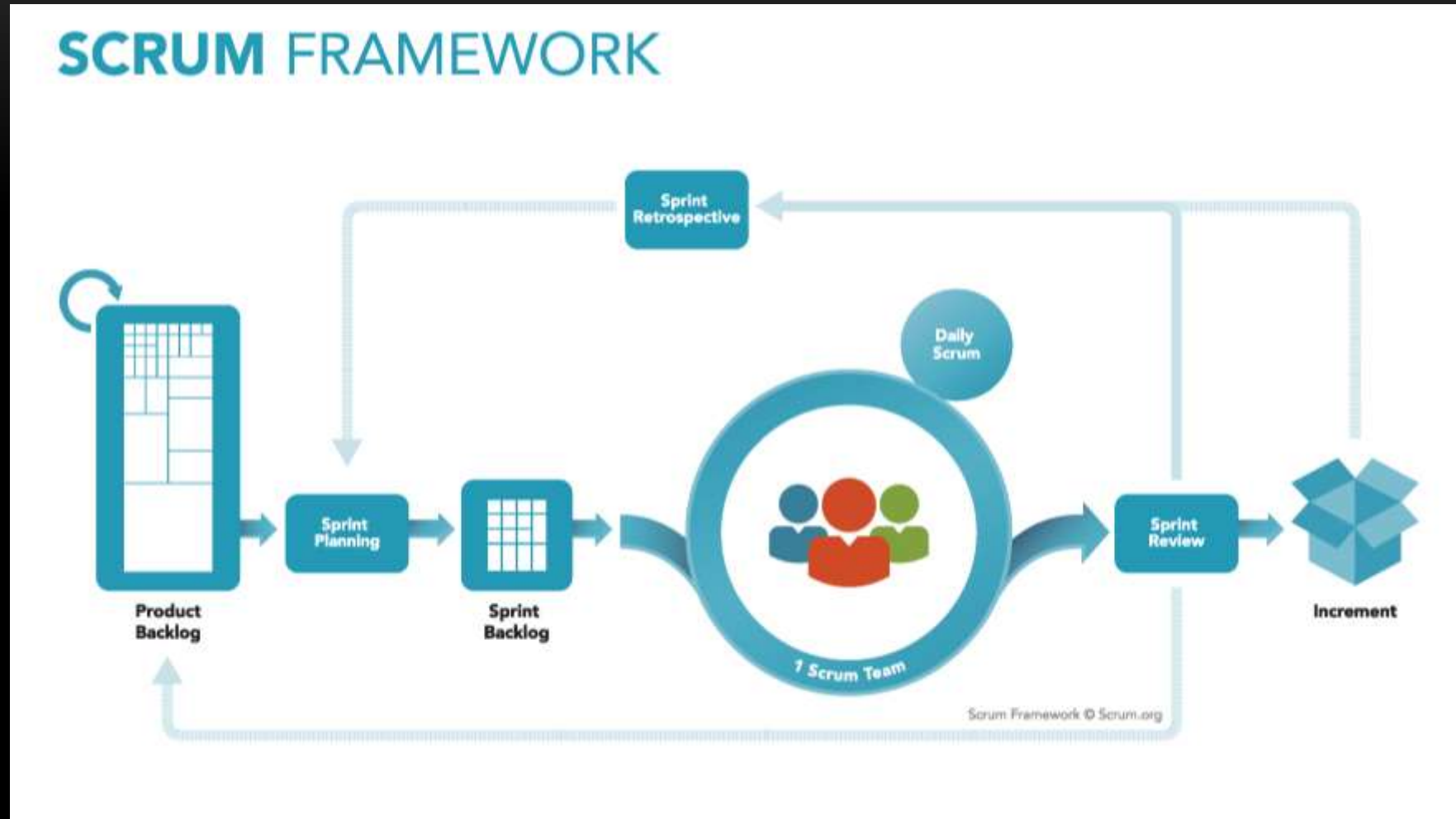
<http://agilemanifesto.org>

SCRUM

SCRUM

- Scrum is a framework for developing complex products and systems based on:
 - Transparency
 - Inspection
 - Adaption

THE SCRUM FRAMEWORK



ITERATIONS/SPRINTS



<http://www.3dshop.org.uk/images/tardis.jpg>

SCRUM EVENTS (4)

SPRINT PLANNING



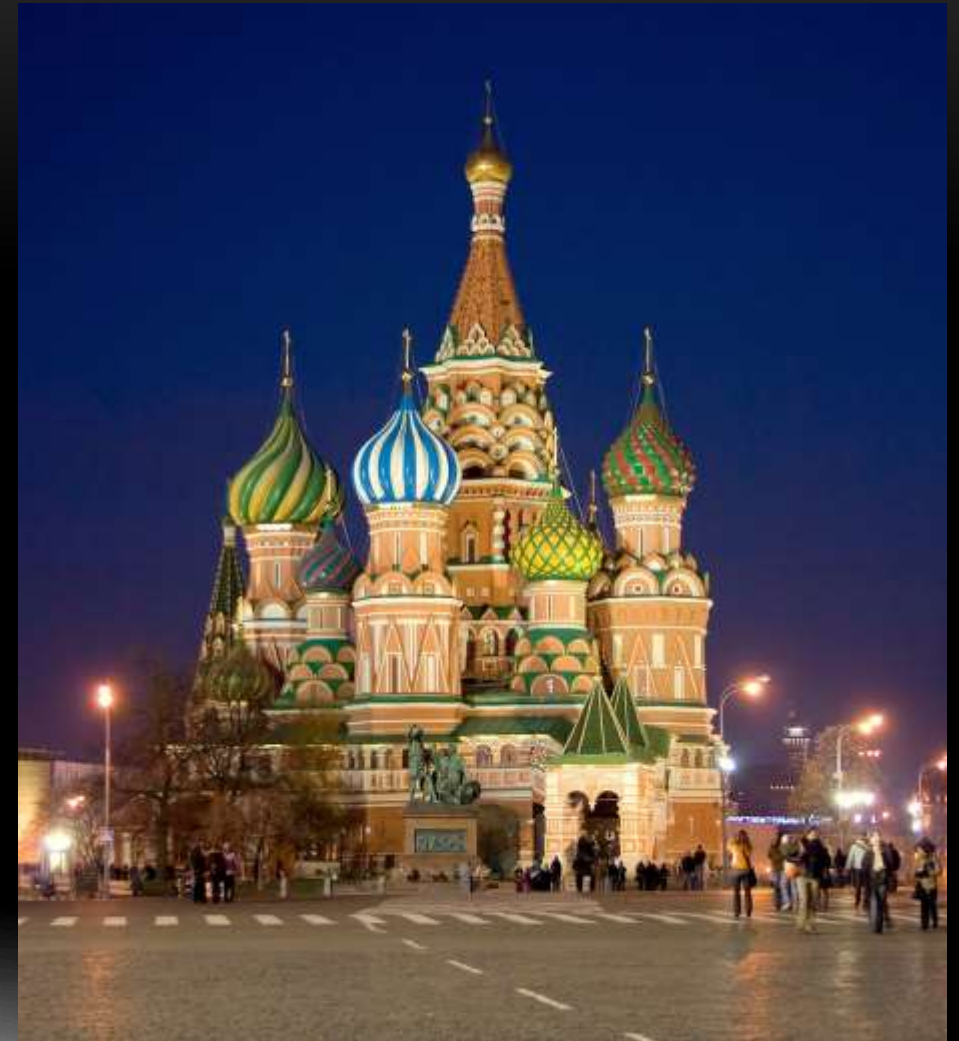
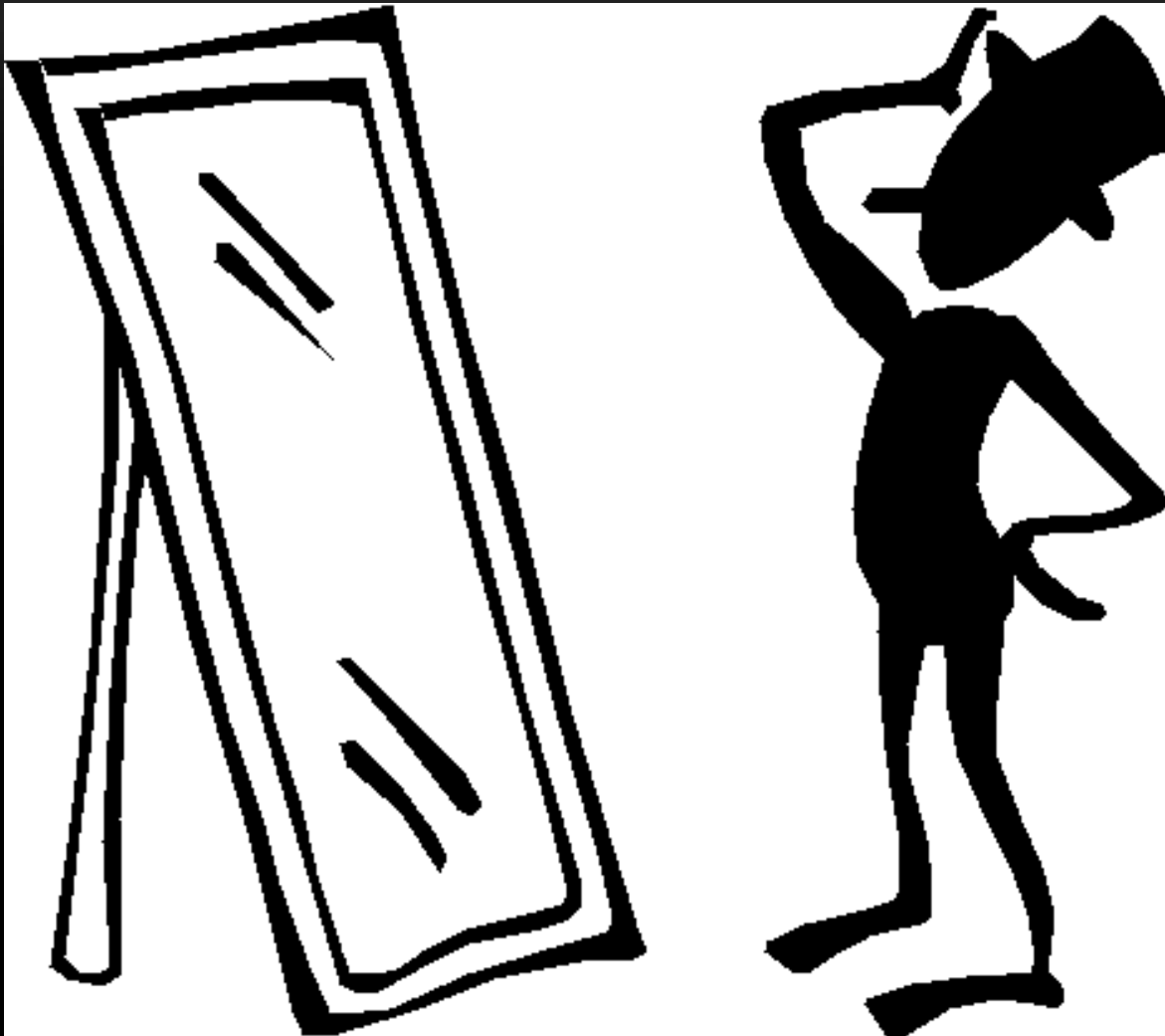
DAILY SCRUM



SPRINT REVIEW IT'S NOT JUST A MEETING



SPRINT RETROSPECTIVE



SCRUM ROLES (3)

THE TEAM



SCRUM MASTER



PRODUCT OWNER



SCRUM ARTIFACTS (3)

PRODUCT BACKLOG – THINK REQUESTMENTS



SPRINT BACKLOG



INCREMENT OF DONE WORKING SOFTWARE



EXTREME PROGRAMMING (XP)

EXTREME PROGRAMMING

- eXtreme Programming improves software development through:
 - Communication
 - Simplicity
 - Feedback
 - Respect
 - Courage

THE TECHNICAL SIDE OF SCRUM

- Four core Activities

- Coding, Testing, Listening, and Designing

- Four core Values

- Communication, Simplicity, Feedback, Courage, and Respect

- Three core Principles

- Feedback, Assume simplicity, Embrace change,

- Twelve core Practices

XP PRACTICES

- Fine scale feedback
 - Pair Programming
 - Planning game
 - Test driven development
 - Whole team includes customer
- Continuous Process
 - Continuous Integration
 - Design improvement - Refactoring
 - Small releases
- Shared Understanding
 - Coding standards
 - Collective code ownership
 - Simple design
 - System metaphor
- Programmer Welfare
 - Maintain a sustainable pace

AGILE SOFTWARE ENGINEERING



WHEN YOU DON'T PAIR

It makes pandas sad

w.skimedic.com

THE PLANNING GAME

➤ Release Planning

- Exploration – List all of the requestaments (stories)
- Commitment – Commit to “big rocks” and release date
- Steering – adjusting the release plan through the life of the project

➤ Iteration Planning

- Exploration – Requestaments distilled into tasks
- Commitment – Estimates determined
- Steering – adjusting to match the original story

TDD/BDD



<http://icanhascheezburger.com/2008/10/22/funny-pictures-safety-blanket-ai-has-one>

CONTINUOUS INTEGRATION / CONTINUOUS DEPLOYMENT

- Code
- Integrate
- Build
- Test
- [Deploy]



LEAN / KANBAN

KANBAN

- Translated means “signboard” or “billboard”
- Inspired by Lean and the Toyota Production System
- Leverages Work In Progress (WIP) limited pull system
- Four basic principles
 - Start with existing process
 - Agree to pursue incremental, evolutionary change
 - Respect the current process, roles, responsibilities, and titles
 - Leadership at all levels

PRINCIPLES

Lean

- Eliminate Waste
- Amplify Learning
- Decide Late
- Deliver Early
- Team Empowerment
- Build Quality In
- See the whole

Kanban

- Start with existing process
- Pursue Incremental, Evolutionary change
- Respect the current process, roles, responsibilities, titles
- Leadership at all Levels

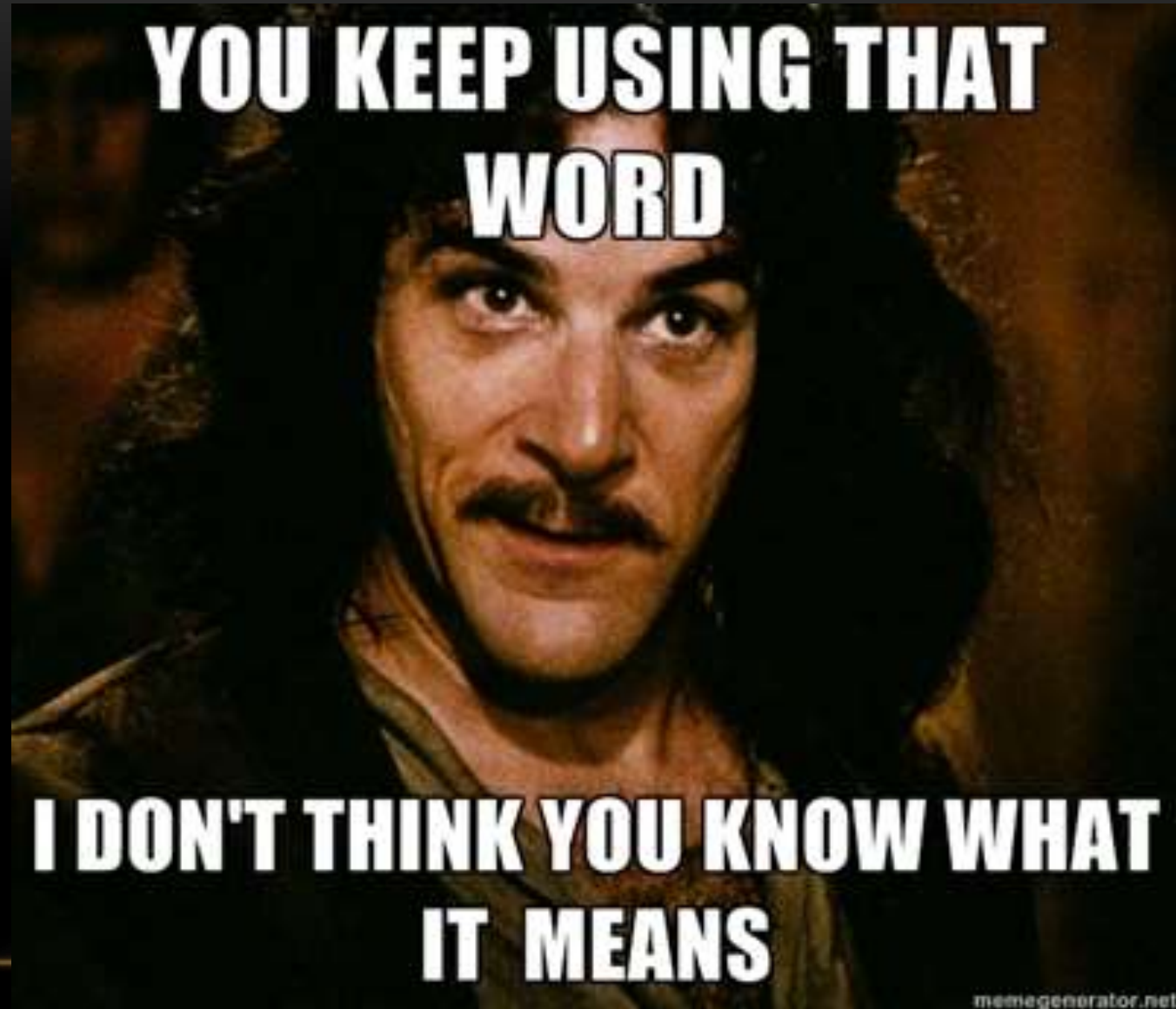
KEY TERMS

Work In Progress (WIP) Limits

- Max number of items in any one column
 - E.g. Testing
- When column is full
 - Team swarms to clear road blocks
- Limits can be adjusted

Lead/Cycle Time

- Lead time
 - Time from request to delivery
- Cycle time
 - Time from work started to deployment



WHAT IS AGILE REALLY?

- Transparency
- Collaboration
- Rapid feedback
- Continuous improvement/Eliminating Waste

TRANSPARENCY

A close-up portrait of the Dalai Lama. He is wearing glasses and has his hands pressed together in a prayer position (Anjali Mudra) near his face. The lighting is warm and focused on his face and hands.

**“A LACK OF TRANSPARENCY RESULTS IN
DISTRUST AND A DEEP SENSE OF INSECURITY.”**

DALAI LAMA

© Lifehack Quotes

BE BRUTALLY HONEST



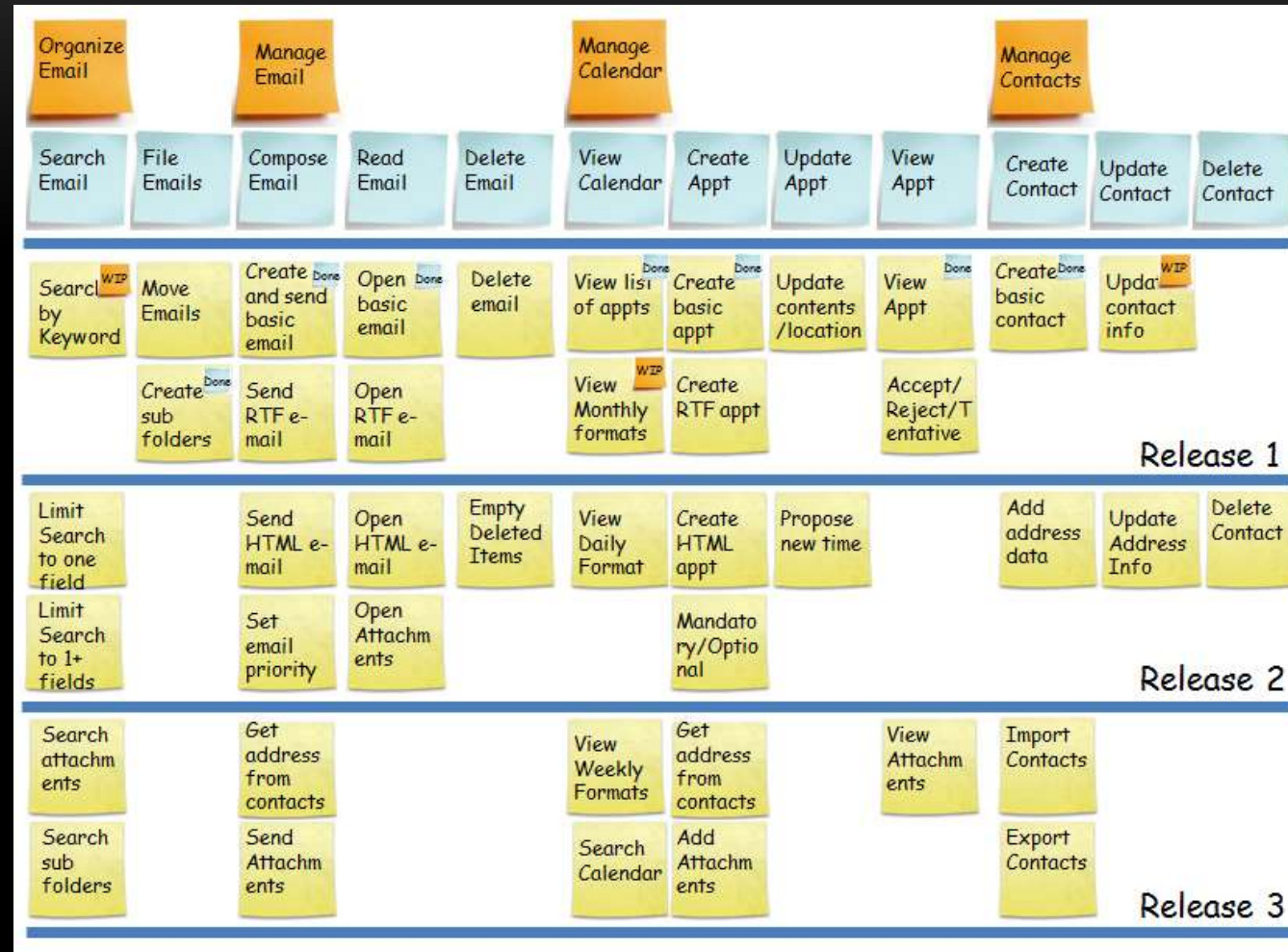
PROVIDE FULL DISCLOSURE WHENEVER POSSIBLE



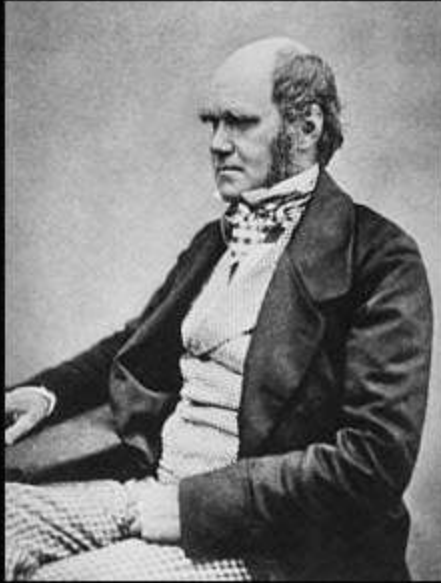
MAKE WORK, STATUS, RESULTS VISIBLE AT ALL TIMES



USER STORY MAPPING



COLLABORATION



In the long history of humankind (and animal kind, too) those who learned to collaborate and improvise most effectively have prevailed.

(Charles Darwin)

IT'S NOT HUMAN BATTLE CHESS



BE AGILE IN YOUR COMMUNICATIONS



DAILY STANDUP



PAIRING



<http://blogofpaul.merecomplexities.com/articles/165>

CROSS TRAINING IS KEY



GET RID OF THE TABLE



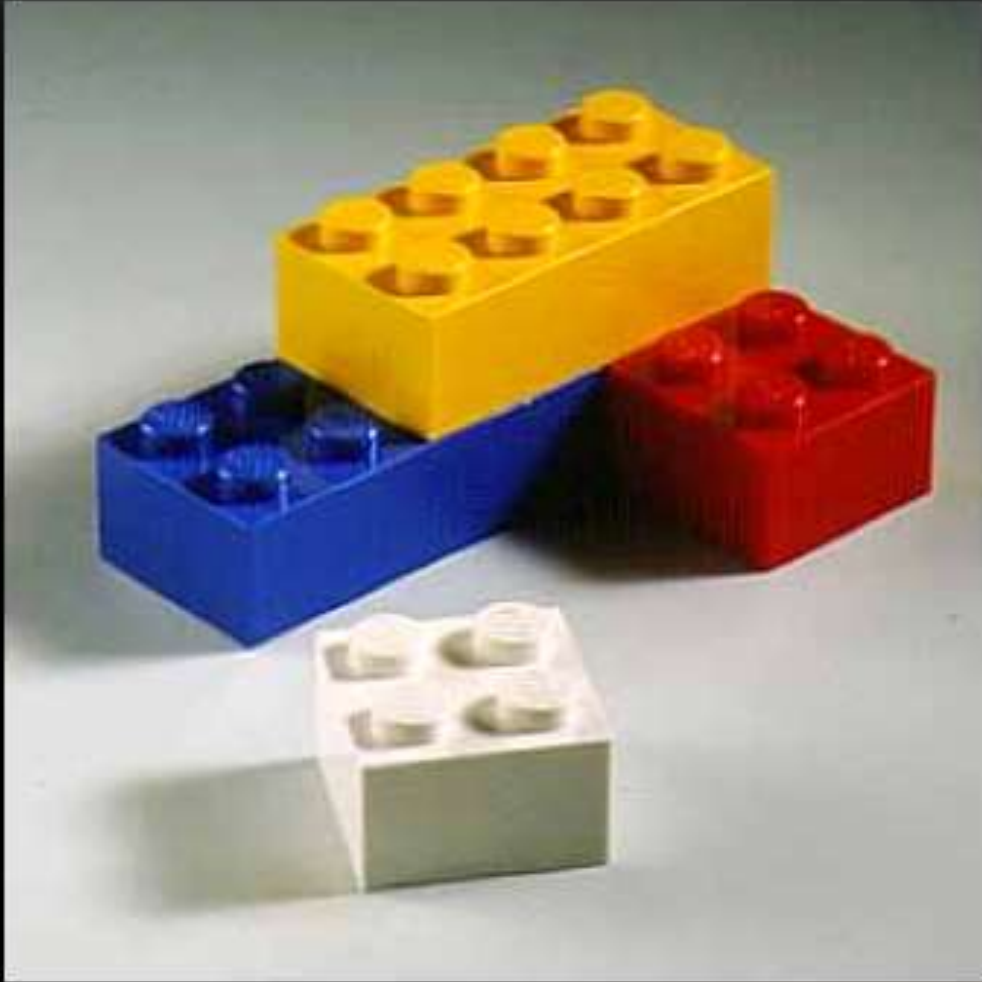
RAPID FEEDBACK



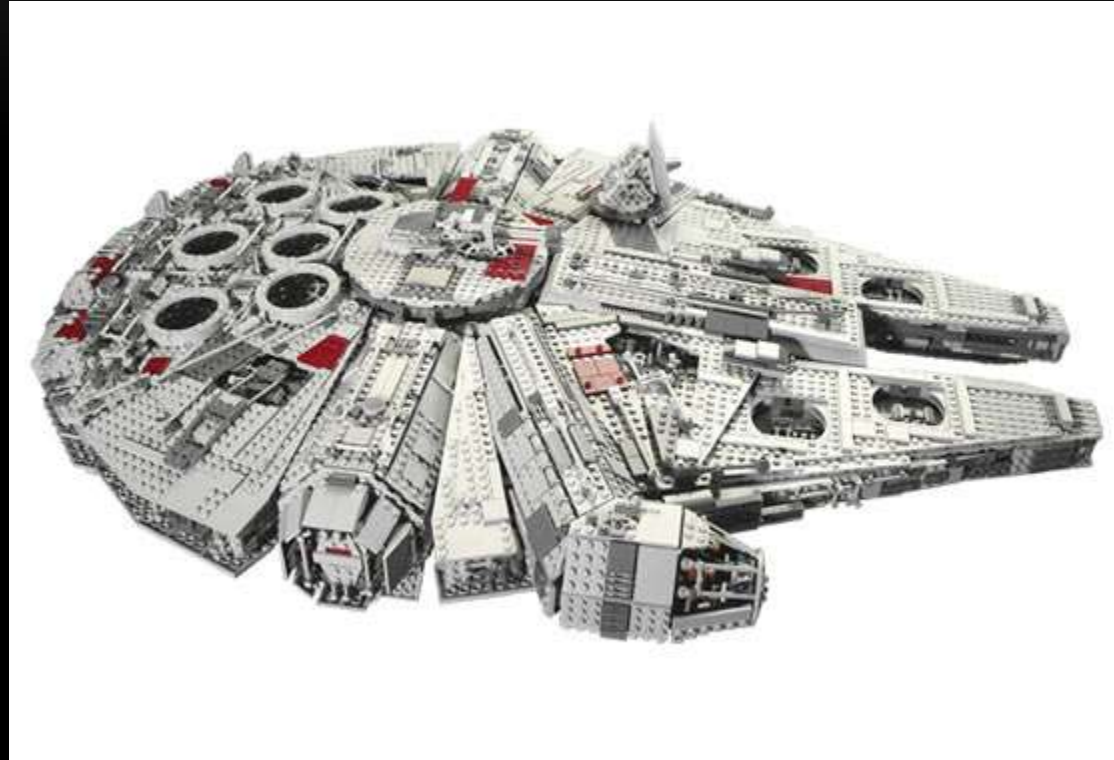
There are no failures - only
feedback.

— *Richard Bandler* —

TEST DRIVEN DEVELOPMENT



BEHAVIOR DRIVEN DEVELOPMENT



DEVELOPERS – UNIT TESTING/CONTINUOUS INTEGRATION



QA - IN-SPRINT TESTING



STAKEHOLDERS, USERS - SPRINT REVIEW



www.severestcs.com/secure/images/Presentations8.jpg

CONTINUOUS IMPROVEMENT



To improve is to change;
to be perfect is to change often.

-Winston Churchill

FOCUS ON SIMPLICITY



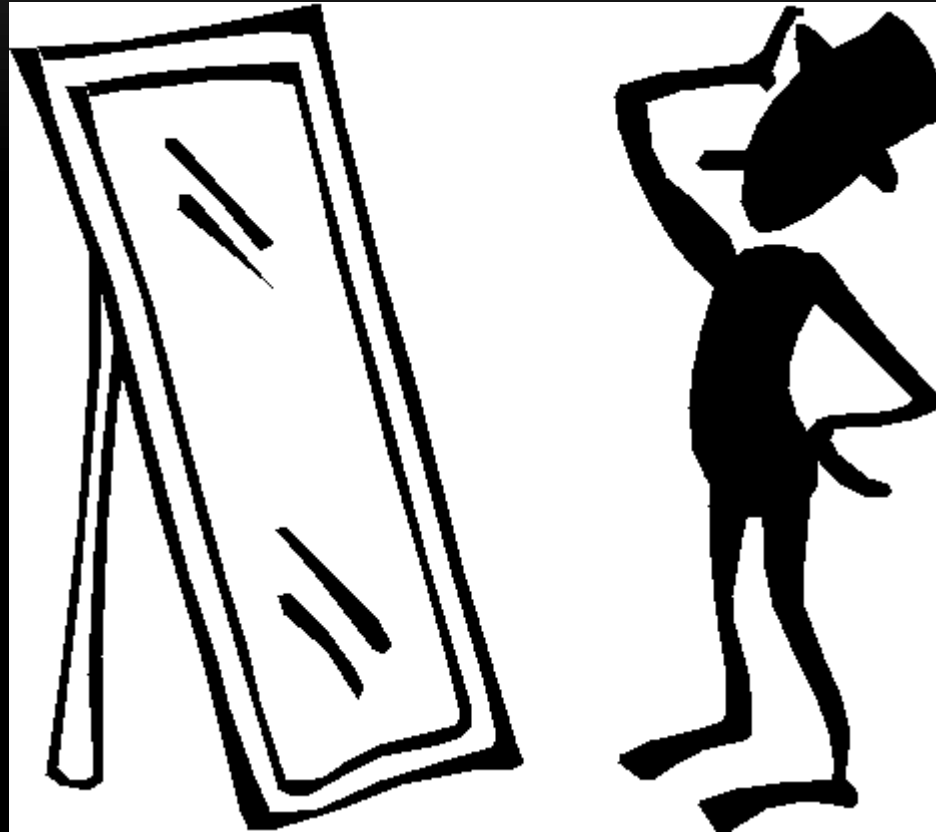
CAN AN 8 YEAR OLD UNDERSTAND IT?



ELIMINATE WASTE



HAVE REGULAR RETROSPECTIVES



MAKING THE TRANSITION

CHANGE HAPPENS



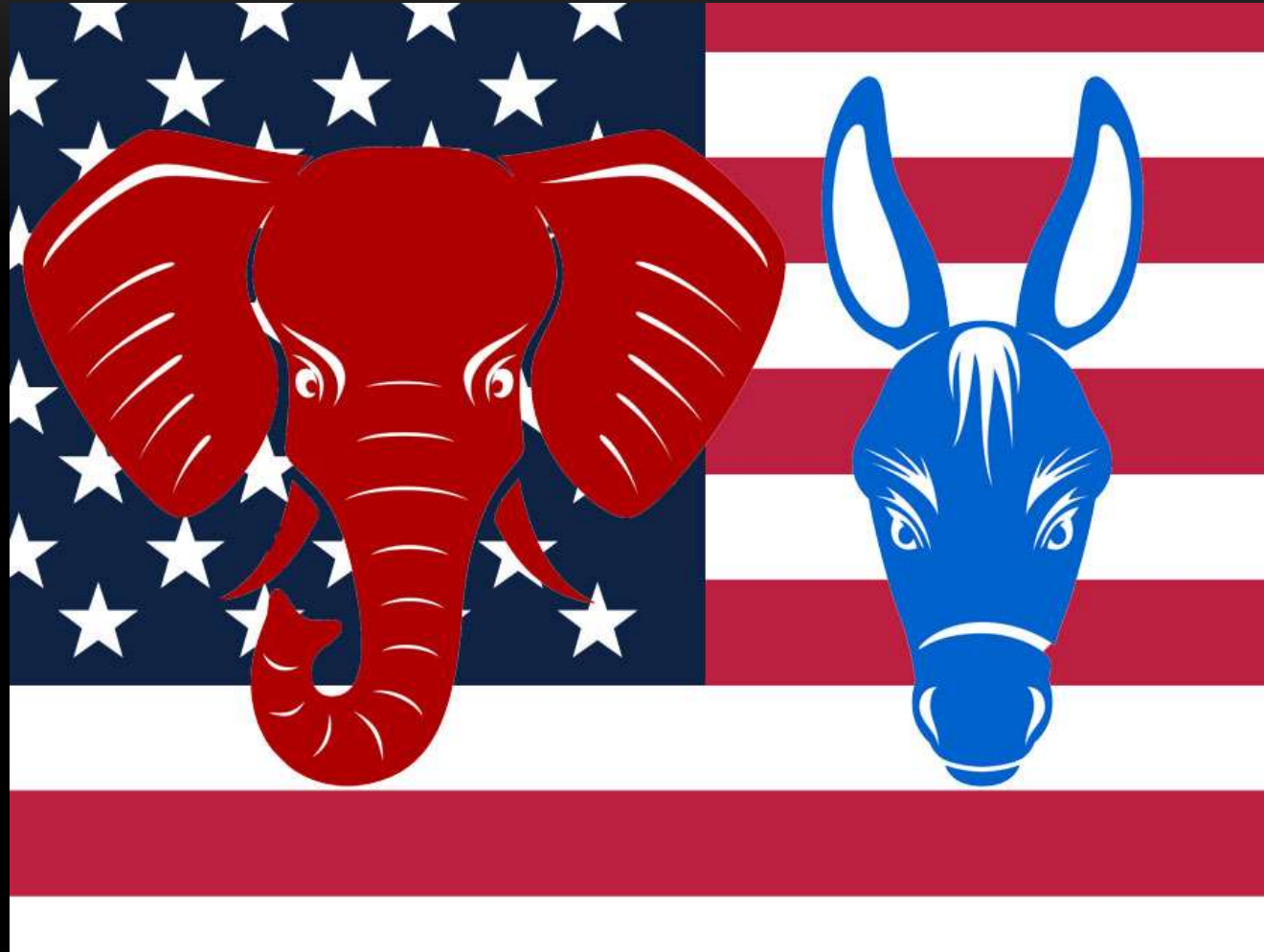
IT CAN BE MADDENING



SO WHAT SHOULD YOU DO?



DON'T UNDERESTIMATE THE POLITICS



DON'T FORCE IT



THERE'S NO SILVER BULLET – IT TAKES TIME

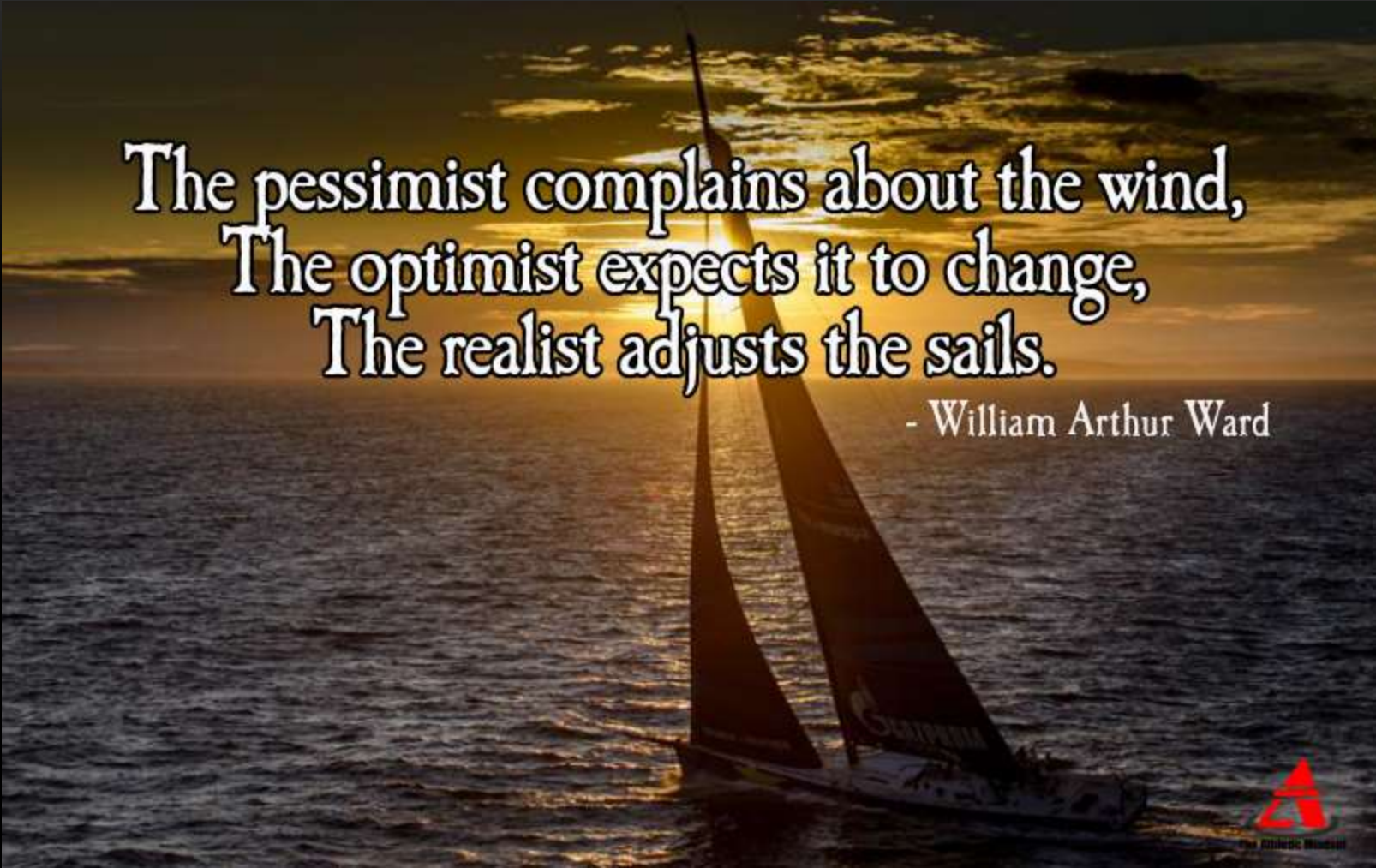


YOU NEED TO “BE” AGILE, NOT “DO” AGILE



IT'S A JOURNEY, NOT A DESTINATION



A sailboat is shown on the ocean at sunset. The sun is low on the horizon, creating a golden glow across the sky and reflecting on the water. The sailboat's sails are dark, and the overall scene is serene and contemplative. The quote is overlaid in a stylized, outlined font.

The pessimist complains about the wind,
The optimist expects it to change,
The realist adjusts the sails.

- William Arthur Ward



SURVIVE THE WATERFALL



CHANGE YOUR JOB OR CHANGE YOUR JOB



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<http://bit.ly/apressbooks>

www.hallwayconversations.com

Questions?



Thank You!