

THE 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.

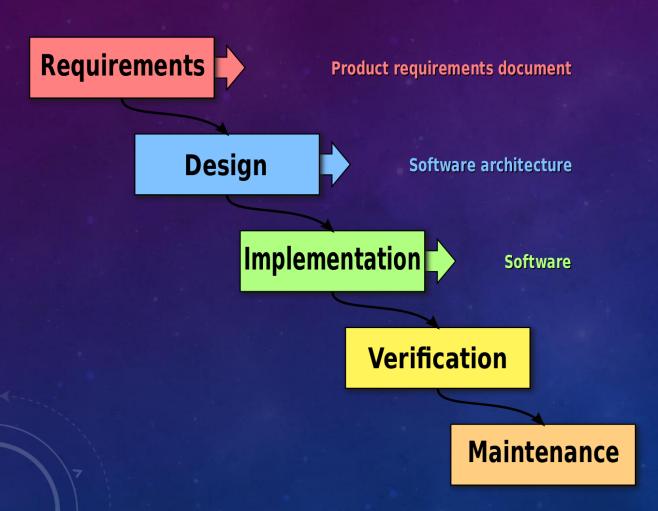
from http://agilemanifesto.org/

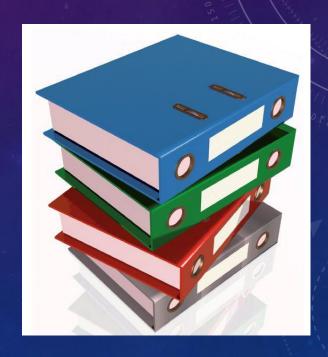
Kent Beck Mike Beedle Arie van Bennekum Alistair Cockburn Ward Cunningham Martin Fowler **James Grenning** Jim Highsmith Andrew Hunt Ron Jeffries Jon Kern **Brian Marick** Robert C. Martin Steve Mellor Ken Schwaber Jeff Sutherland Dave Thomas

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Agile and XP

THE DARK TIMES





ADOPTING XP: WHY?

- Have Production/Process critical applications?
- Knowledge silos?
- Want reduced defect rates?
- Want deployed/released software?
- Changing Requirements?
- Customer Satisfaction?
- Developer Satisfaction?



EXTREME PROGRAMMING



- The first Extreme Programming project was started March 6, 1996.
- Kent Beck Project Leader
- Ron Jeffries
- Don Wells
- Martin Fowler
- Chet Hendrickson

EXTREME PROGRAMMING 1E VS 2E

1e

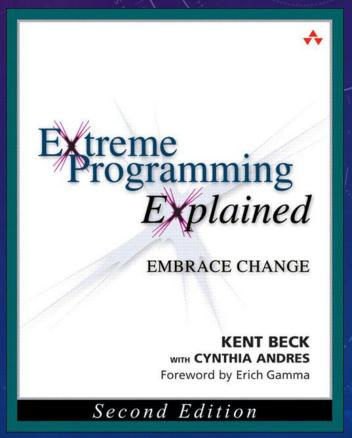
- October 1999
- 12 practices
- Coding Standard
- Metaphor

2e

- November 2004
- the 5 values
- Principles
- Corollary practices







VALUES: COMMUNICATION

- Maximize communication within team
- With customers
- Documents easily readable & up to date
- Common Vocabulary

VALUES: SIMPLICITY

- Simple but not simplistic
- YAGNI

VALUES: FEEDBACK

- People
- Systems
- Team

VALUES: RESPECT

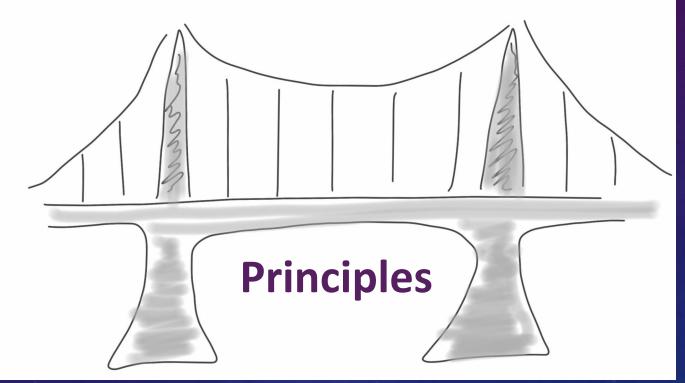
- Self
- Others
- Others work



In combination with other values is powerful

14 PRINCIPLES

Values



- Failure
- Quality
- Baby Steps
- Accepted Responsibility

Practices

- Humanity
- Economics
- Mutual Benefit
- Self-similarity
- Improvement

- Diversity
- Reflection
- Flow
- Opportunity
- Redundancy

TEAM AND HUMAN FACTORS PRACTICES

- Sit Together
- Whole Team
- Informative Workspace
- Energized Work sustainable pace
- Pair Programming







THE TEAM ROOM

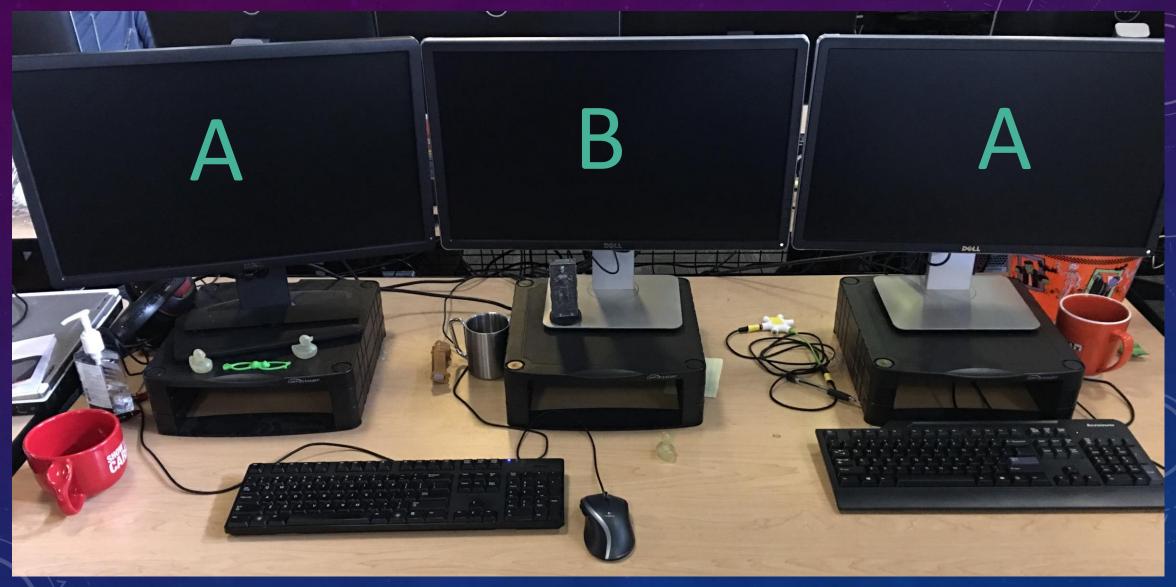


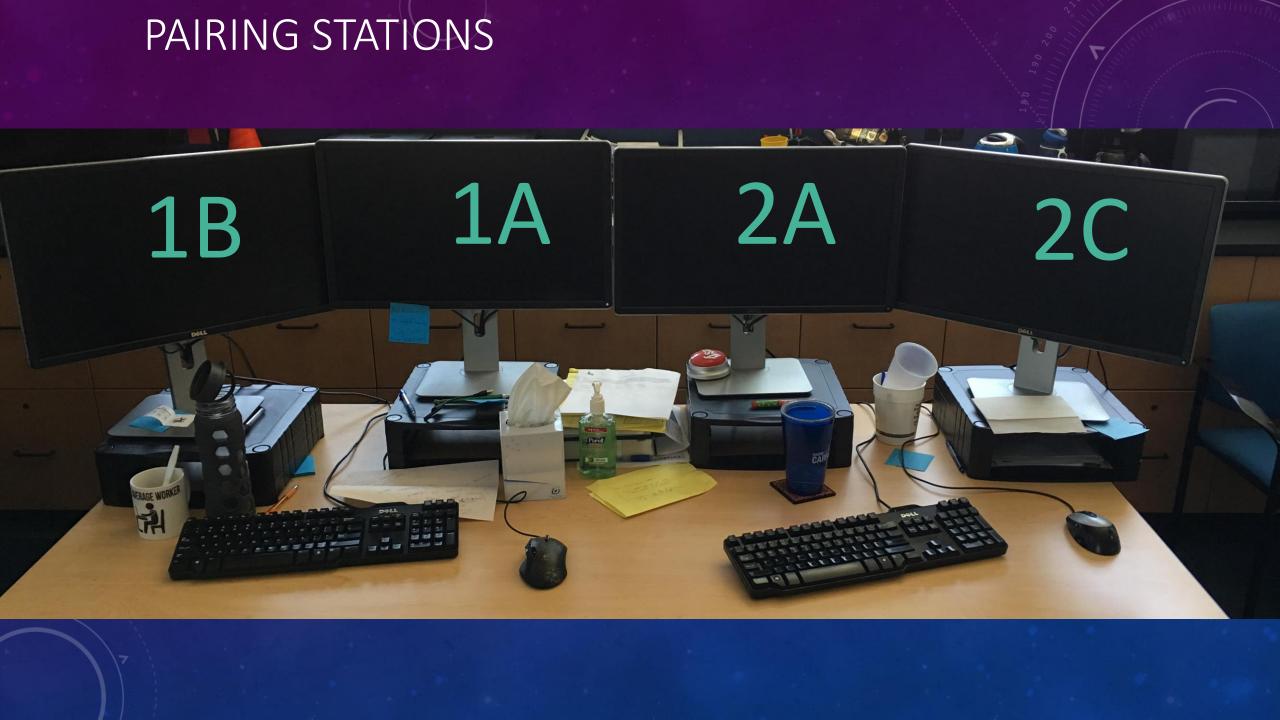


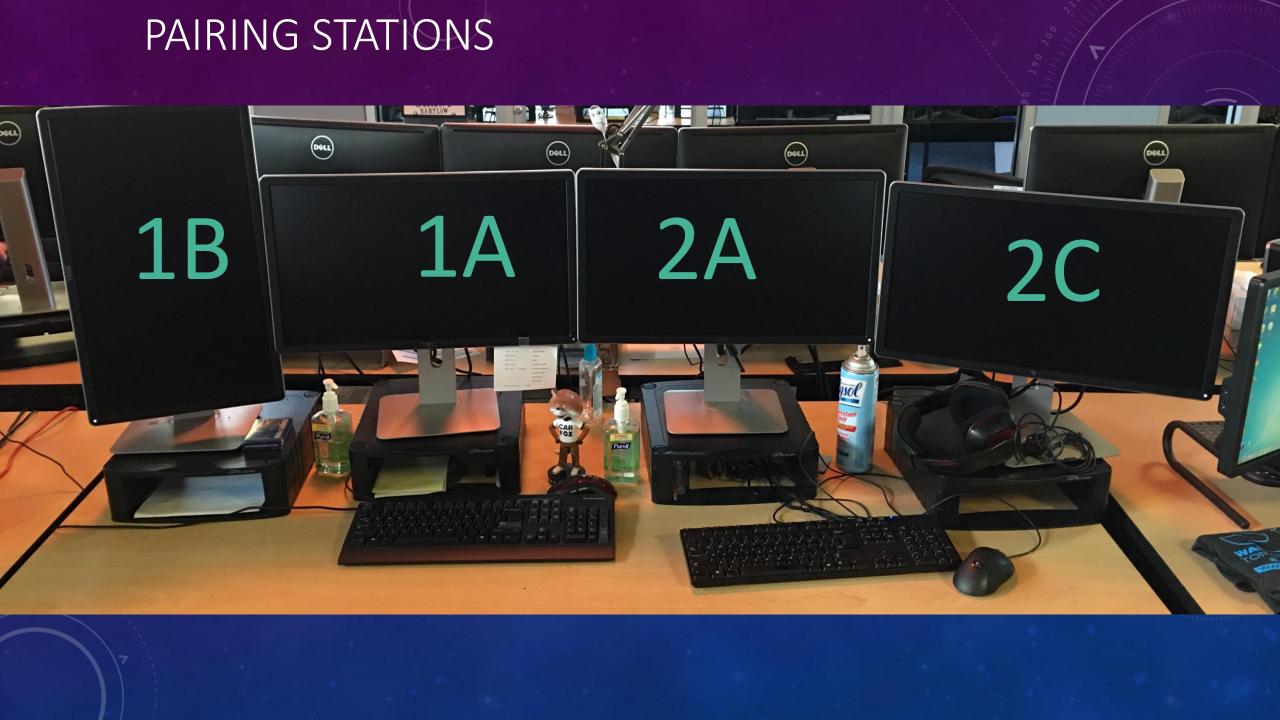


http://xp123.com/xplor/room-gallery/

PAIRING STATIONS

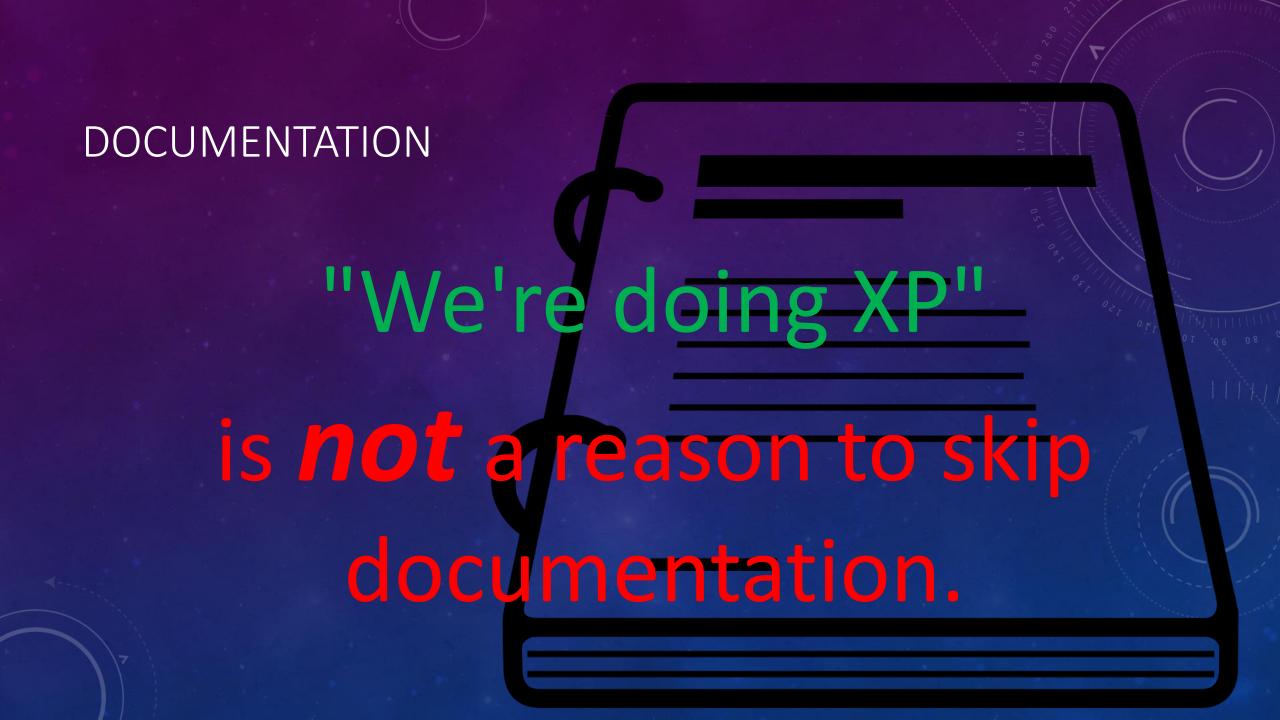






REQUIREMENTS ANALYSIS AND PLANNING PRACTICES

- Stories
 - Cards
 - Role
 - Feature
 - Acceptance criteria
 - Sizing
 - Conversation



REQUIREMENTS ANALYSIS AND PLANNING PRACTICES

- Weekly Cycle
 - Yesterday's weather
- Quarterly Cycle
 - Theme
 - Process improvement
 - Big picture
- Slack
- Flow based management

DESIGN PRACTICES

- Incremental Design
 - As you code
 - EDUF

DESIGN PRACTICES

- Test-First Programming
 - What is it?
 - Simple test
 - Simple code (DTSTTCPW)
 - Refactor
 - repeat
 - Arrange-Act-Assert
 - TETTCPB



RED - GREEN - REFACTOR

DESIGN PRACTICES

Test-First Programming addresses:

- Scope creep / cowboy coding
- Coupling and cohesion -- testability
- Trust (the code & tests)
- Rhythm focus
 - Red-Green-Refactor

CODING AND RELEASE PRACTICES

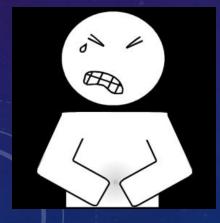
- Continuous Integration
 - Git
- Ten Minute Build
- Continuous Deployment
 - Automation Servers



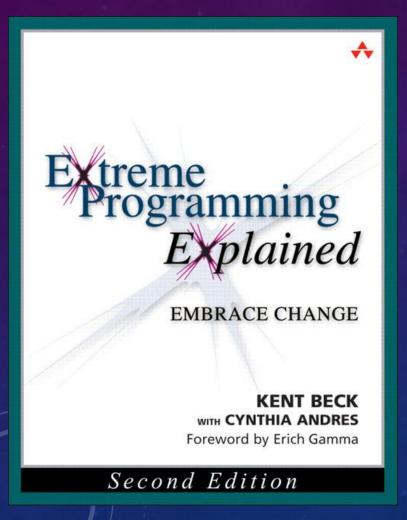


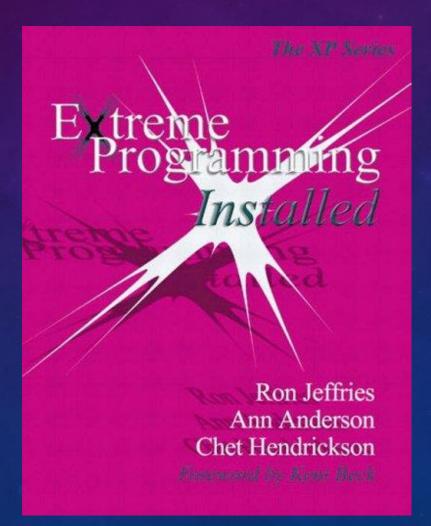
ADOPTING XP: HOW?

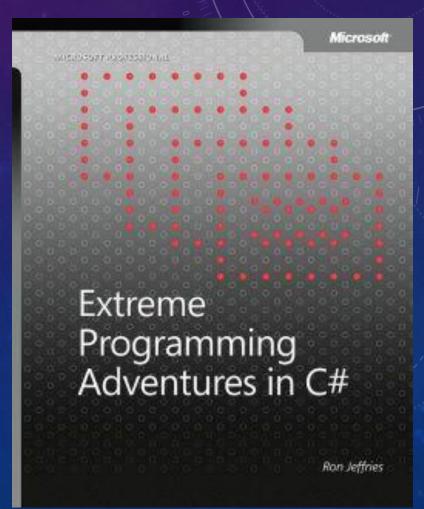




WHERE DO I GO FROM HERE?







WEB RESOURCES

- 1. http://www.extremeprogramming.org/
- 2. http://www.extremeprogramming.org/more.html
- 3. http://c2.com/cgi/wiki?ExtremeProgramming
- 4. http://ronjeffries.com/xprog/what-is-extreme-programming/
- 5. http://xp123.com/xplor/
- 6. http://www.xp123.com/xplor/xp0202/xp-one-page.PDF



finished

Bryan Nehl-@k0emt -dbBear.com

https://github.com/k0emt/Presentations