

Software Craftsmanship

Crafting the Software

by Evren Tan

Who am I?



The background image shows a close-up of a person's hands working on a piece of brown leather. They are using a leather chisel and a hammer to work on the edge of the leather. The leather is held in place by several metal clamps. The scene is set on a wooden workbench with various leatherworking tools visible in the background.

What is Software Craftsmanship?

What Wikipedia says;

Software craftsmanship is an approach to software development that emphasizes the coding skills of the software developers. It is a response by software developers to the perceived ills of the mainstream software industry, including the prioritization of financial concerns over developer accountability.

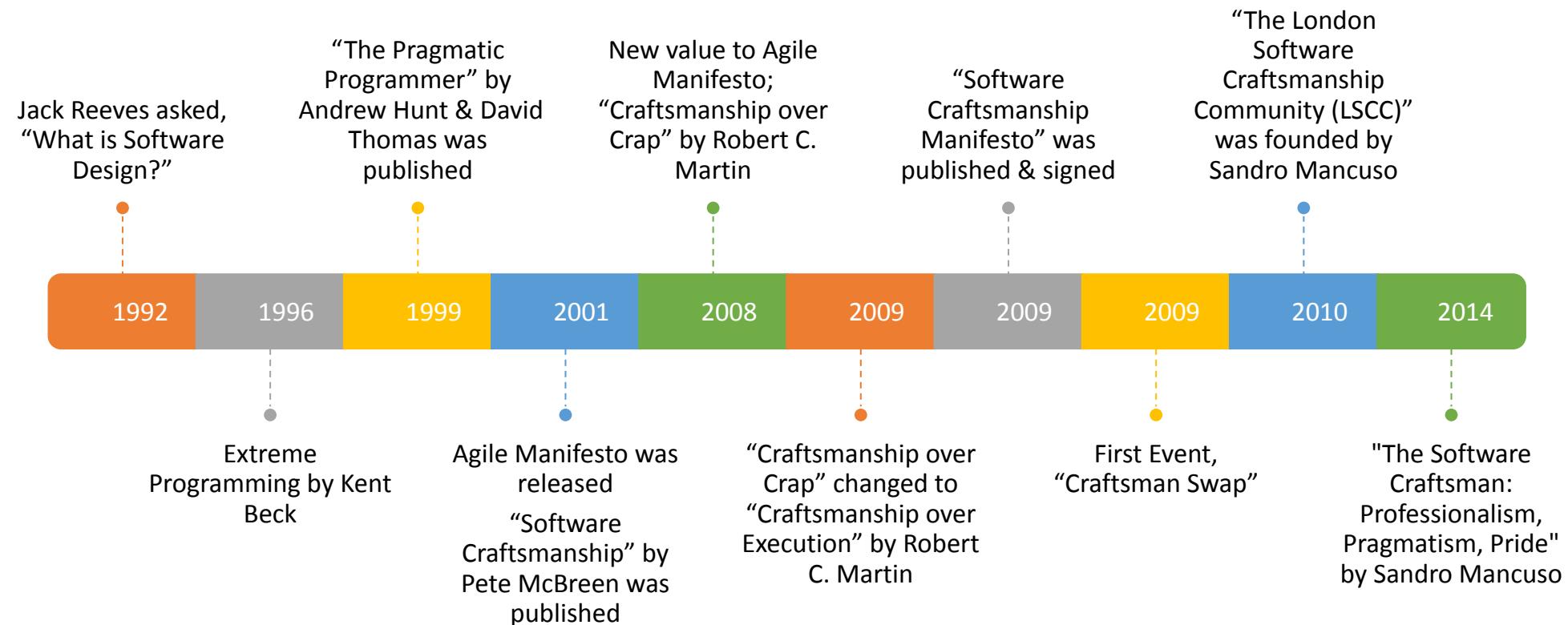
What Sandro Mancuso says;

Software craftsmanship is about professionalism in software development.

What Evren Tan says;

Software crafting is all about adding continuous value to oneself and to the community with continuous improvement.

History





Software
Craftsmanship
Manifesto

Software Craftsmanship Manifesto

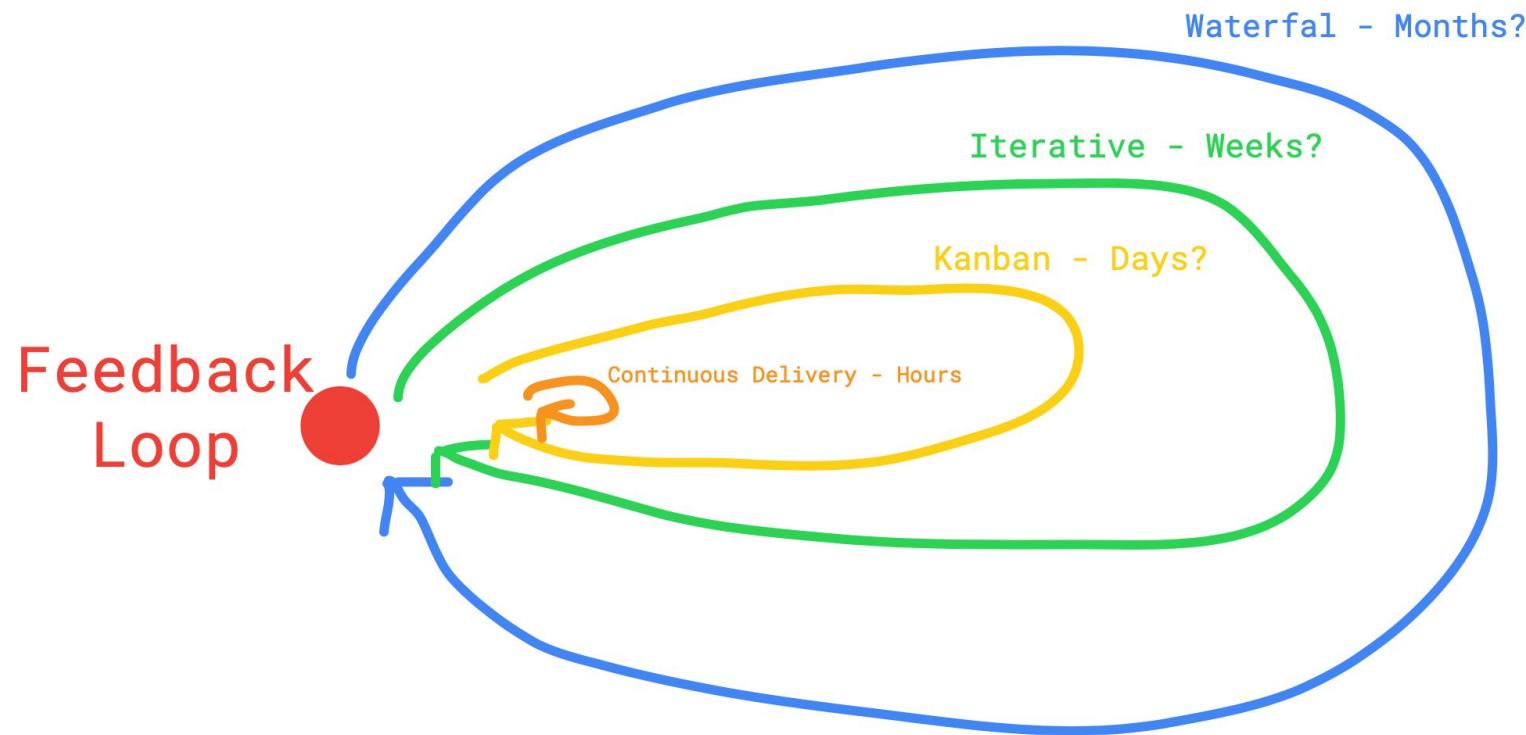
Not only working software, but also **well-crafted software**

Not only responding to change, but also **steadily adding value**

Not only individuals and interactions, but also **a community of professionals**

Not only customer collaboration, but also **productive partnerships**

The Keyword – Feedback Loop



Techniques for Crafting the Software

Test Automation

Pair Programming

Code Reviews

Refactoring

Continuous Integration

Pragmatic Programming

What is the Goal?



Improve Know-How 



Maintainable & Readable Code 



Scalable Architecture 



Reliable Application 



Improve Quality / Reduced # of Bugs 



Minimize OPEX 



What Attributes should a Software Crafter Have?



Professionalism

Owning Your Career
Express Yourself
Be Pragmatic
Leadership



Continuous Improvement

Read
Practice
Follow



Be a Social Crafter

Join Communities
Contribute



Balance Your Life

Pomodoro Technique

Working Software? Well-Crafted Software



Doing the Right Thing vs Doing the Thing Right? 🤔



Technical Debts? 🖌



Accountability – “Programming is more like gardening” from “The Pragmatic Programmer” 🌱



Legacy Code? 😱



Time Management? 🕒

Right Thing / Management



Thing Right / Leadership



Product Development



USER RESEARCH



SPRINT BACKBLOG

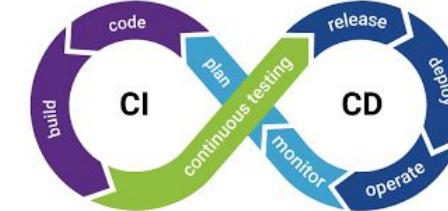


SPRINT PLANNING

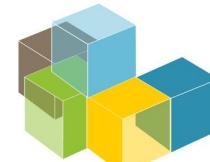


RETROSPECTIVE
how do YOU
think we did?

XP
Extreme
Programming



SecOps



SOFTWARE
ARCHITECTURE

What is NOT Software Crafting?

Software Engineering

Anti-Agile Pattern

Forcing Every Developer for Crafting

Not Writing Crap Code



PYPL –
Popularity of
Programming
Language



Reading Suggestions

Software Craftsman, The: Professionalism, Pragmatism, Pride by Sandro Mancuso

Clean Architecture: A Craftsman's Guide to Software Structure and Design by Robert C. Martin

Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin

Refactoring: Improving the Design of Existing Code by Martin Fowler

The Pragmatic Programmer: From Journeyman to Master by Andy Hunt & Dave Thomas

