What is **Software Architecture**… and **an overview**.

PV260 Software Quality

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"Perfection is not achieved when there is nothing to add, but when there is nothing to remove."

Antoine de Saint Exupéry

"Insanity is doing the same thing over and over and expecting different results."

(attributed to) Albert Einstein

"It has to work."

IETF RFC 1925

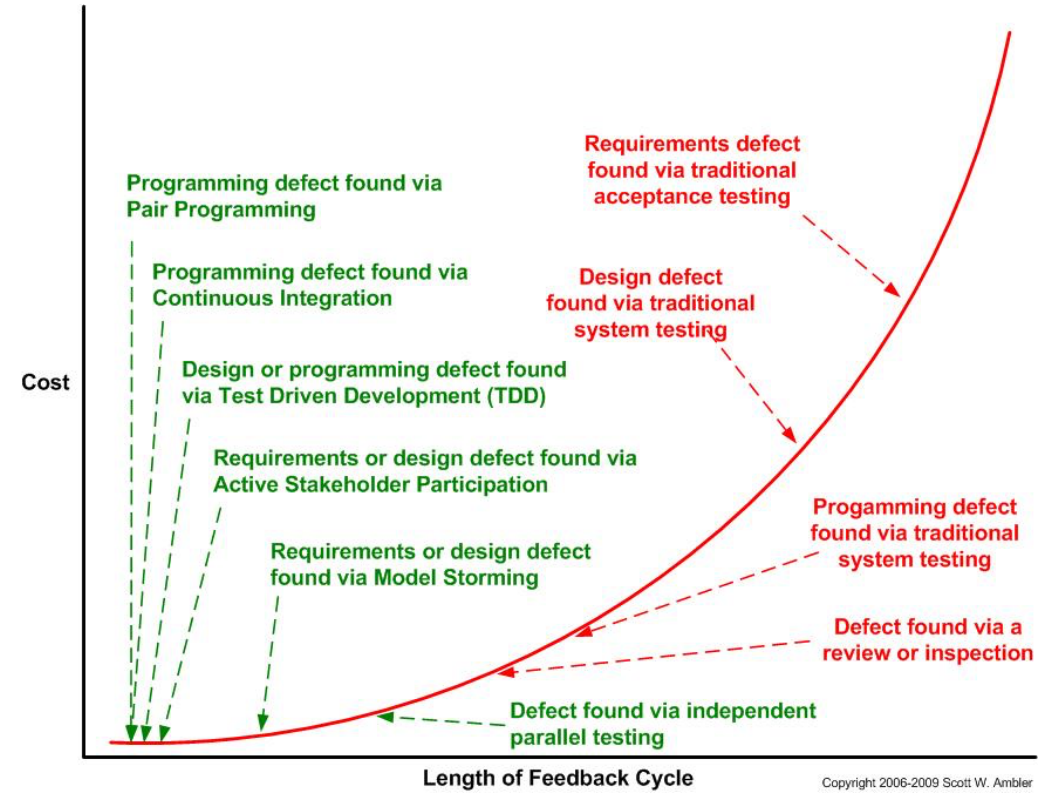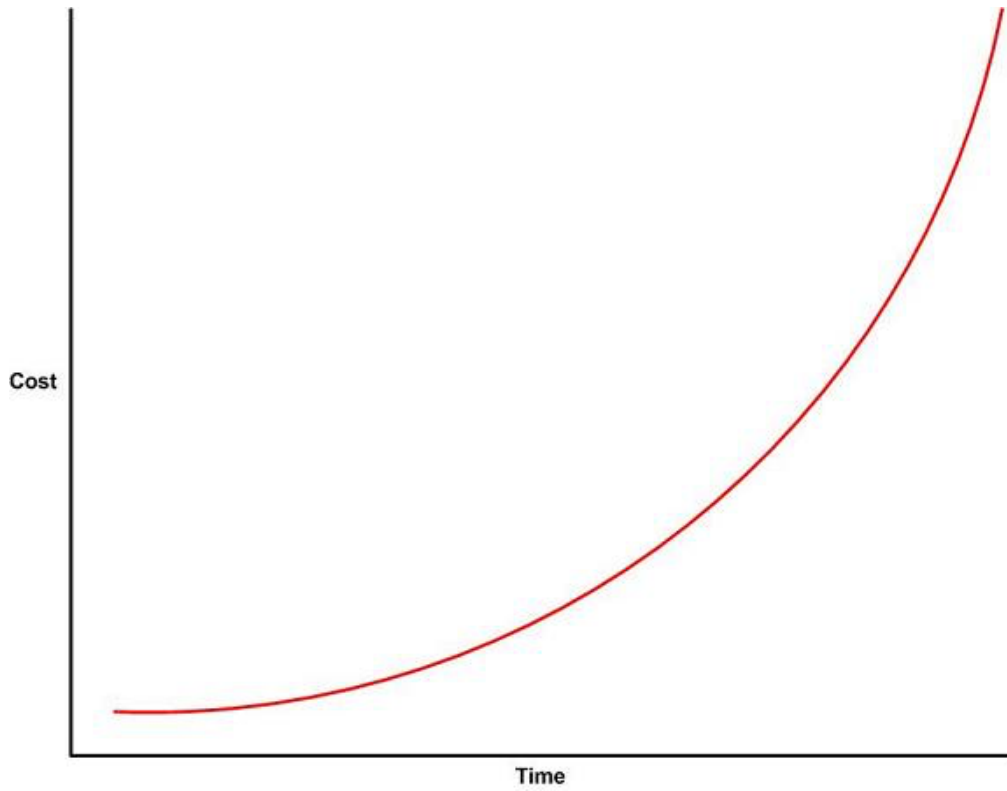Software Architecture is seldom about functional requirements.

THE SOFTWARE

THE SOFTWARE IN DEMO

IN REALITY

TO THE CUSTOMERS

Software Architecture is the important stuff
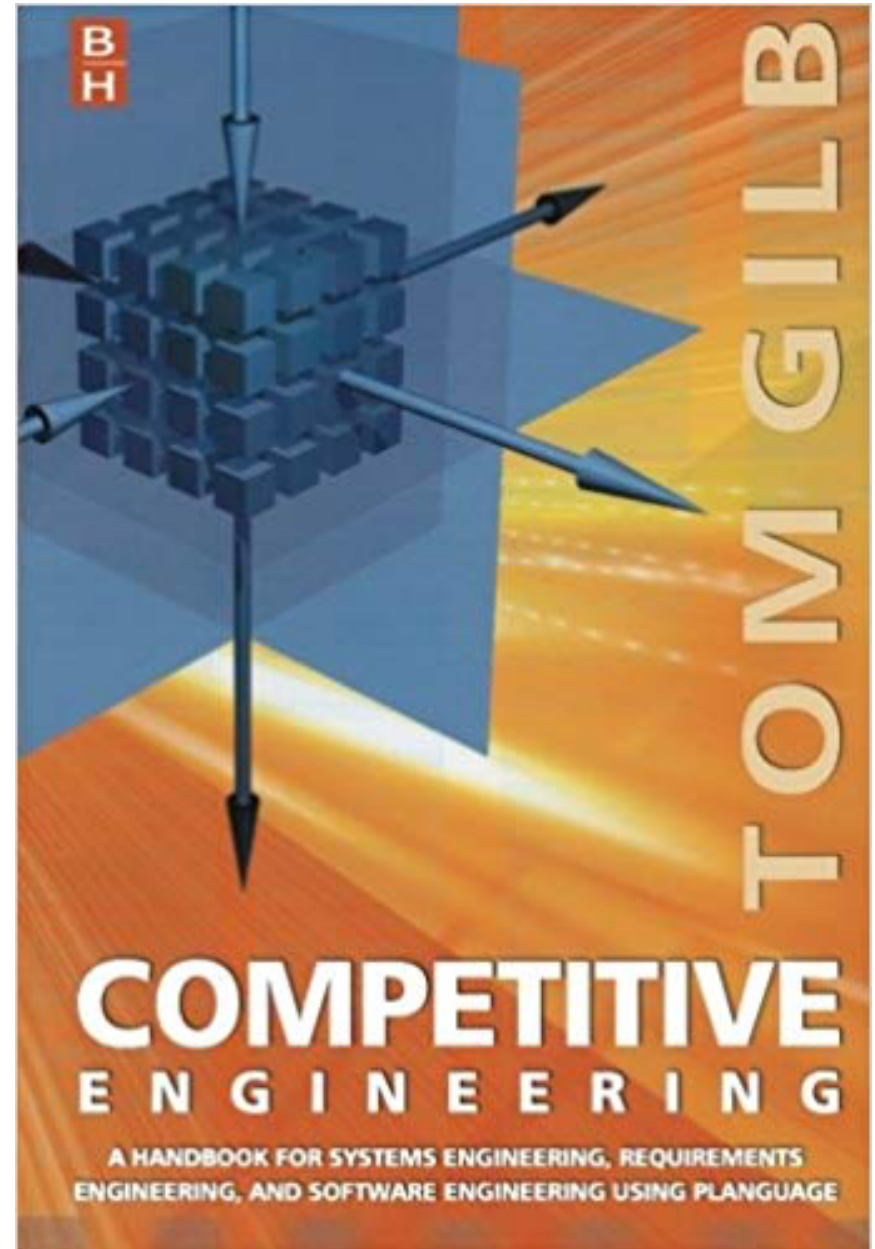(whatever that is).

Ralph Johnson

Cost of Change Curve | Copyright (c) 2006-2009 Scott W Ambler

SOFTWARE ARCHITECTURE **IS THE SERVANT OF HIGH-PRIORITY STAKEHOLDER VALUES**.

IS AS SIMPLE AS POSSIBLE, BUT NOT SIMPLER AND IS DESIGNED TO BE REPLACEABLE.

Tom Gilb (Architecture Manifesto)

COMPETITIVE
ENGINEERING

A HANDBOOK FOR SYSTEMS ENGINEERING, REQUIREMENTS ENGINEERING, AND SOFTWARE ENGINEERING USING PLANGUAGE

TOM GILB

SERVANT

HIGH-PRIORITY

STAKEHOLDER

VALUES

AS SIMPLE AS POSSIBLE

NOT SIMPLER

REPLACEABLE

Software Architecture is **Strategy**

Strategy is a plan how to deliver on your goals. Your goals are defined by high-priority stakeholders.

SOFTWARE ARCHITECTURE **IS THE STRATEGY HOW TO DELIVER HIGH-PRIORITY STAKEHOLDER VALUES**.

It is still important to **accept change** because no battle plan survives the first contact with the enemy.

Software Architecture is **Risk Mitigation**

What happens when things go wrong? Is it important?

Software Architecture is **Communication**

What does it mean? How to deliver and protect stakeholder values?

Software Architect is a **Teacher**

Who **does** software architecture then?

Software Architecture is done by **everyone**.

Key Takeaways

Architecture is a servant of high priority stakeholder values.

Is as simple as possible, but not simpler.

Is designed to be replaceable.

Software Architecture is a Strategy.

Software Architecture is Communication.

Software Architect is a Teacher.