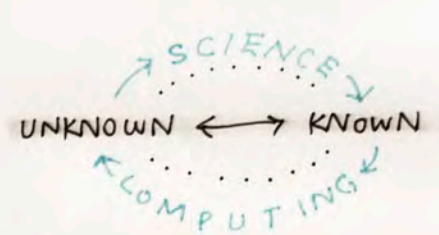


THE CODE IS THE TRUTH
but NOT THE WHOLE TRUTH

Saturn16
MAY
2-6
2016

SATURN 2016
12th ANNUAL SEI
Software Engineering Institute
ARCHITECTURE TECHNOLOGY USER NETWORK CONFERENCE
San Diego, CA USA

SKETCHNOTES @ mjbroadbent



Opening Keynote

GRADY BOOCH



IBM FELLOW
@Grady_Booch

Architecting the unknown

We have the privilege and the responsibility to change the world

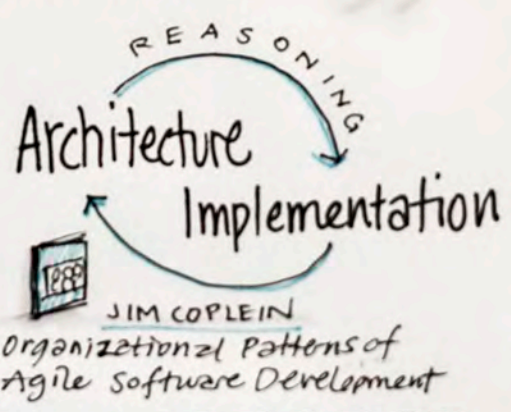
The Sciences of the Artificial
HERBERT A. SIMON
Recommended



All architecture does not fit all risk profiles; there is NO ONE TRUE WAY

ORGANIZATIONAL ARCHITECTURE is also key: sometimes you have to blow up the village in order to save it.

I'm a great believer in the **4+1** view model.



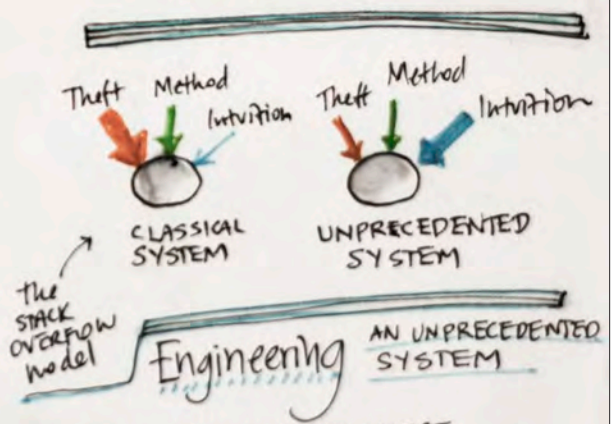
IoT • COMPLEXITY
• POSSIBILITIES
• CHALLENGES

Evolution of ART over time
REPRESENTATION
• Symbolism
• Realism
• Hyper Realism
• Imagination
with SCIENCE as influence

PARALLEL in COMPUTING
PIXELS to MAPPING HYPER REALITY



- 1 IS THERE A BUILD & RELEASE RHYTHM?
- 2 WHAT IS THE HEALTH OF THE UNDERLYING ARCHITECTURE?



I focus on ABSTRACTIONS and PATTERNS. The rest is detail

CODING IS OK but **COMPUTATIONAL THINKING** will TEACH THE NEXT GEN.

ARCHITECTING the unknown

- Allow yourself to FAIL
 - FAIL early.
 - FAIL often.
 - FAIL safely
 - Fill your tool bag
 - Get out of your comfort zone
 - Be inspired by the REAL WORLD
- look at nature!

- ▶ DO THE HARD PART FIRST
- ▶ IF IT WORKS, THEN IT'S USEFUL
- ▶ ALL DESIGN DOMAINS CONTAIN AN IRREDUCIBLE KERNEL OF PROBLEMS THAT ARE BEST ADDRESSED THROUGH CREATIVE AND HEURISTIC APPROACHES THAT COMBINE ART AND SCIENCE
- ▶ ALL SERIOUS MISTAKES ARE MADE IN THE FIRST DAY
- ▶ NO COMPLEX SYSTEM CAN BE OPTIMUM TO ALL PARTIES CONCERNED, NOR ALL FUNCTIONS OPTIMIZED.