



In the problem solving business.

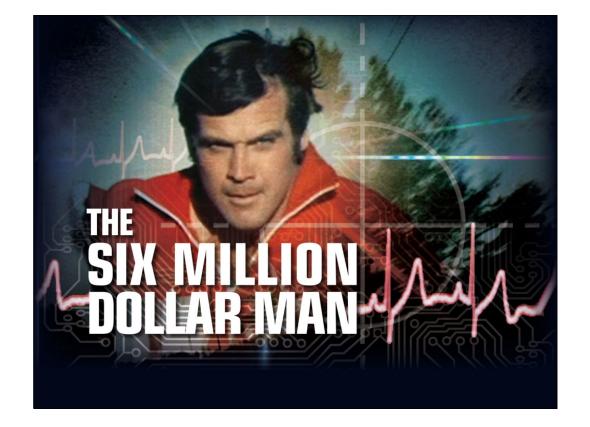
Don't know how our frameworks are implemented

- therefore we don't know when to go off the reservation
- if you write code and complexly as you can...
- sometimes the 'magic' behind the scenes makes me uncomfortable

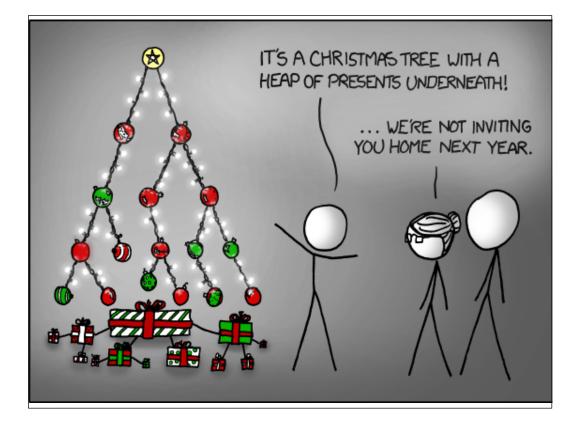
Machine Does not have a mind of it's own

- each application has its own personality
- solutions that work in one place, might not work in another
- know your data
- know your users





Know what you are implementing



SafeAuto Print Tool Queue example

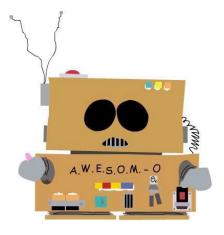
- need to understand our data structures
- List vs. Dictionary, Queue vs. Stack, Tree vs. Heap

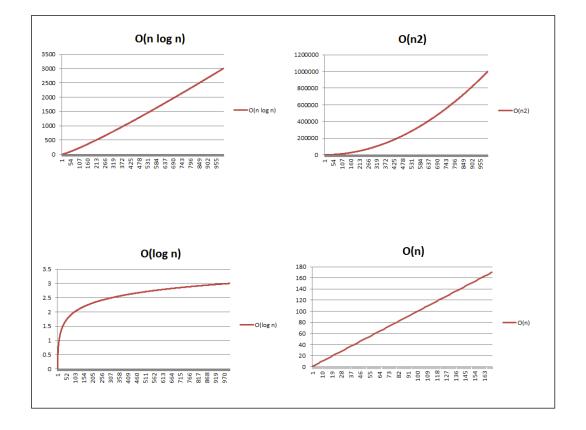
Simple Example

Know how to evaluate solutions

It's about finding the right solution for your customer

Big O Notation





$$F_n = F_{n-1} + F_{n-2}$$

$$where$$

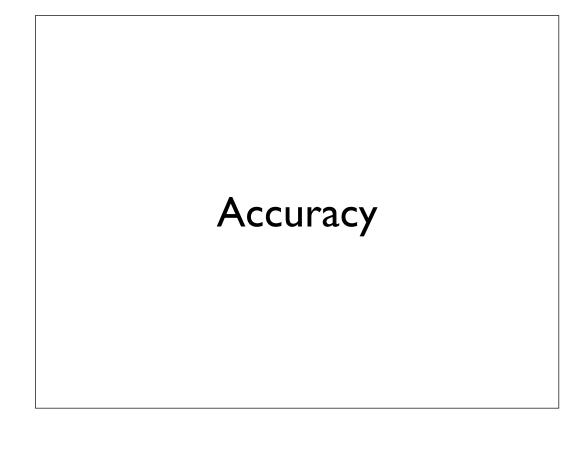
$$F_0 = 0, F_1 = 1$$

Iterative Methods

0(1)

$$Fibonacci(n) = \frac{\emptyset^n - (1 - \emptyset)^n}{\sqrt{5}}$$

$$\emptyset = \frac{1 + \sqrt{5}}{2}$$





Fibonacci (with a proof) - www.maths.surrey.ac.uk/hosted-sites/R.Knott/Fibonacci/fibFormula.html

Project Euler - www.projecteuler.net

Algorithms in a Nutshell, George T. Heineman, Gary Pollice, Stanley Selkow

Shawn Wallace

Source: https://github.com/shawnewallace/TheAlgorithmsStillCount

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