



http://commons.wikimedia.org/wiki/File:Space\_Invader\_Cabinet.jpg

### Universities and big businesses have a computer

and international criminal masterminds

Architects wear lab coats or tee-shirts

and have big beards and sandals

They care deeply about algorithms and big-O

– Computer Science is a science!

Design out anything that could fail

Understand your computational requirements

Develop (invent!) the algorithms you need



http://commons.wikimedia.org/wiki/File:ZX\_Spectrum.jpg

Universities all have big computers

IBM has a PS/2 on a few corporate desks

Architects have smart suits and short hair

They care deeply about modularisation

Some of them have noticed user experience

Model your data

Data consistency, referential integrity

The UI is simply a form on a screen



http://flickr.com/photos/8399025@N07/2189564453/

### Universities have all the supercomputers

- Everyone has a PC at home
- and most people have dial-up

### Architects wear jeans and tee-shirts

and have goatee beards and stock options

#### They care about distributed computing

and scalability, flexibility and reuse

Layering!

Distributed computing

Process is based on engineering principles

the rise of the Enterprise Architect

# It's 2009 (ok, 2010)



http://www.yorkblog.com/biz/img/iphone.jpg

# It's 2009 (ok, 2010)

Google and Amazon have all the computers

Storage is cheap, machine time is cheap

Architects look just like everyone else!

They care about SOA, the Web and the Cloud

oh, and CPUs aren't getting any faster, just wider

Realising the Internet is everywhere

Computers are either Very Big or Very Small

The Web has changed everything

and is itself about to change

The "pure functional" λ-nerds were right!

Concurrency and data sharing are an issue

Admitting we were wrong!

We were wrong about the relational model

We were wrong about object-orientation

We were wrong about distributed computing

We were wrong about software process

### How about irresponsible architecture?



http://www.flickr.com/photos/zigazou76/3702501888/

### How about irresponsible architecture?

#### Inconsistent data!

Eventually Consistent is good enough

Storing your data on other people's servers

or even running your apps!

Exposing your privates

Polling for updates

Using fancy academic FP languages

and clever persistent data structures

### How about irresponsible architecture?

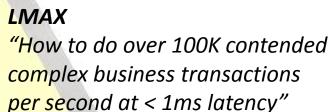


The Counterintuitive Web
"If the Web wasn't so
successful, it'd be dismissed
as an architectural clown."

Patterns for the People
"...sharing design and bridging
rather than barricading
different levels of expertise."



Simplicity
"for architects who think that
ESBs and even J2EE might have
been a massive fraud."









Command-Query Responsibility
Segregation
"Many are surprised by the
added complexity of messaging
patterns"

