The Journey of Mobile Computing Anthony Yung

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My Experience



Product Marketing / Planning PCs, Devices



Market Research Consulting IT Markets



Design / Product Engineering Workstations, Servers



MBA



EECS

Today's Plan

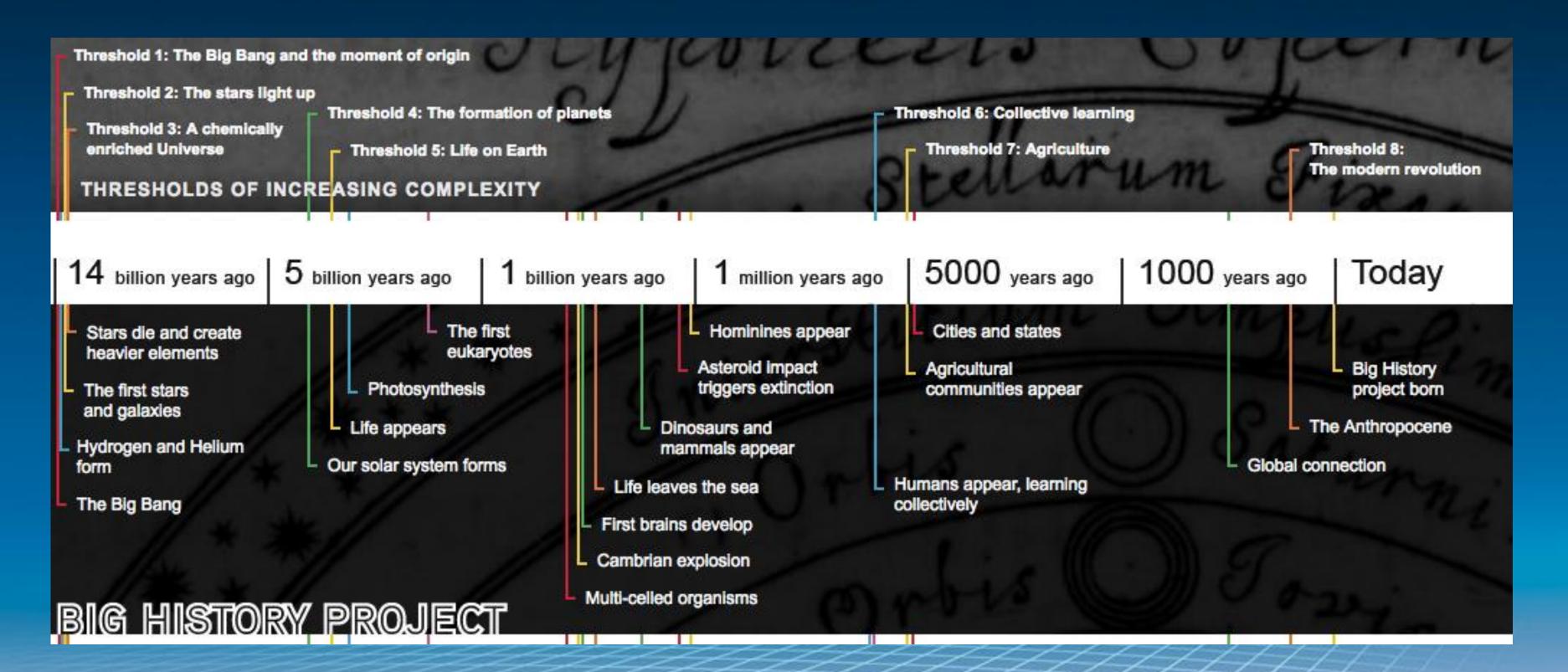
Share Observations

Look at Case Studies

Spot Common Themes

Consider Possibilities

"Big History"



"Big History" of Mobile Computing

2010 /2011

"Big History" of Mobile Computing

Computing in pocket 1971



Mass market computer toy 1978



1981

First portable computer



1983



Computer on-the-go

Handheld computer 1984



Palmtop computer 1991



Mass Market PDA 1996



Wi-Fi Consumer laptop 1999

2007



Early Smart phone

Convertible 2002



Ultraportable 2006



Netbook





Touch Smartphone 2010 /2011



Mass Market Tablet





Early TV = Radio with Visual



Radio Experience



Early TV Experience



Early Mobile Devices = Fixed Devices That Can Move

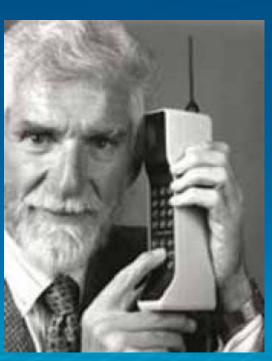












Same Basic Experience, with Compromises

Then What?

• Mitigate / Eliminate Compromises

Add Functionalities that Exists in (and Cannibalize?) Other Devices

Add New Functionalities

Evolve / Revolutionize

A Better and Broader Experience

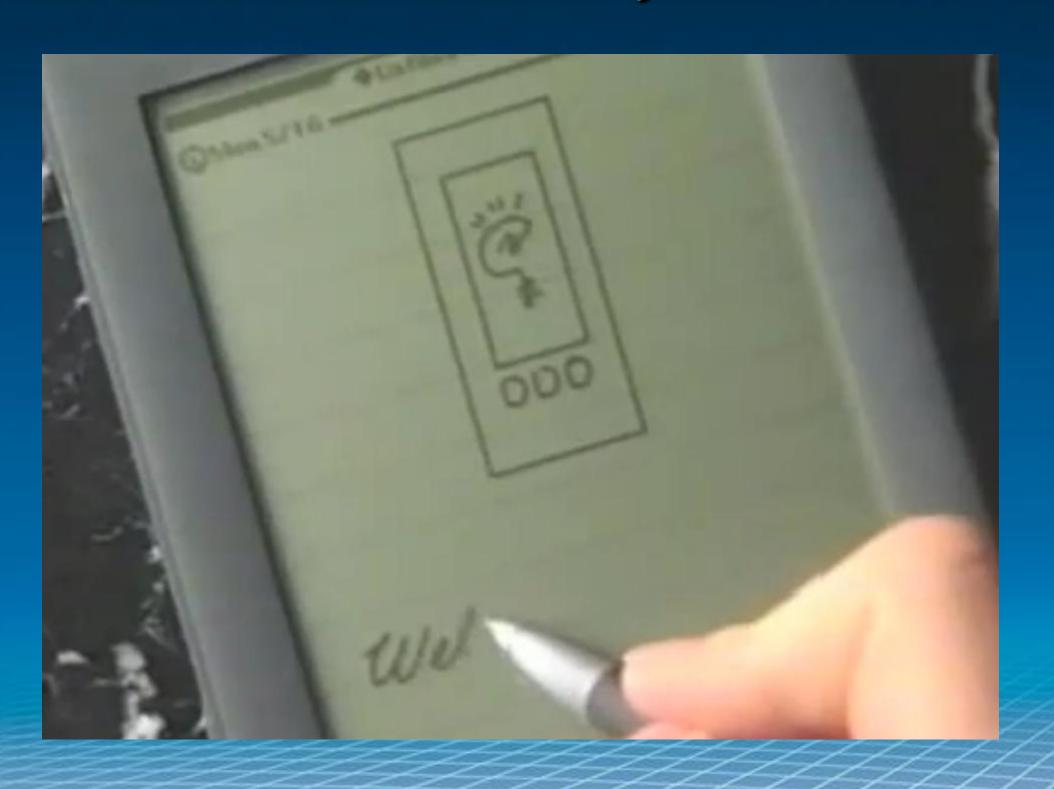
Case Studies

• Focus = Mobile Computing Devices

• Experiences that the device aspires to deliver

An analysis of the experience

Case Study 1



Baseline Experience Mitigate /
Eliminate
Compromises

Add Functionalities that Exist

Add New Functionalities

Evolve /
Revolutionize

Baseline Experience	Mitigate / Eliminate Compromises	Add Functionalities that Exist	Add New Functionalities	Evolve / Revolutionize
Paper Notepad	Tethered	Send fax / email	Handwrite	Feel style
Paper & Pencil	Form Factor	Peer-to-Peer (IR)	Draw / Sketch	
"Capture, Organize, Communicate"			Universal inbox / outbox	
"Keep in touch"			Connect to PC and Macintosh	

Case Study 2



Baseline Experience Mitigate /
Eliminate
Compromises

Add Functionalities that Exist

Add New Functionalities

Evolve /
Revolutionize

Baseline Experience	Mitigate / Eliminate Compromises	Add Functionalities that Exist	Add New Functionalities	Evolve / Revolutionize
Voice Call (Mentioned Last!)	Instant On Form Factor	Music Email Full Web Movie GPS Photos	None?!	Integration

Possibilities for Future -- Tops down

What we think people want
 (How often do we get that right?)

I have seen the future,

Possibilities for Future -- Bottoms Up

How "stuff" gets into devices

Baseline Experience	Mitigate / Eliminate Compromises	Add Functionalities that Exist	Add New Functionalities	Evolve / Revolutionize
Smartphone	Form Factor	Mobile Health	Stereoscopic 3D	SoLoMo
Laptop	HMI	Holographic Display /	E-Wallet	Gamificaition
	Performance	Keyboard	Context Aware	Phone Cluster
		Console Games	Augmented Reality	

Summary

- Mobile devices start with a baseline experience, with compromise
- Deliver a better and broader experience
 - Mitigate / Eliminate Compromises
 - Add Functionalities that Exists in (and Cannibalize?) Other Devices
 - Add New Functionalities
 - Evolve / Revolutionize
- Good Execution / Good Timing, or Redo