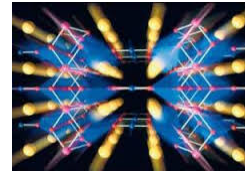


SHARE, Summer 2013



Disruptive Technology: Let's *Upset* Your Quiet Mainframe Life



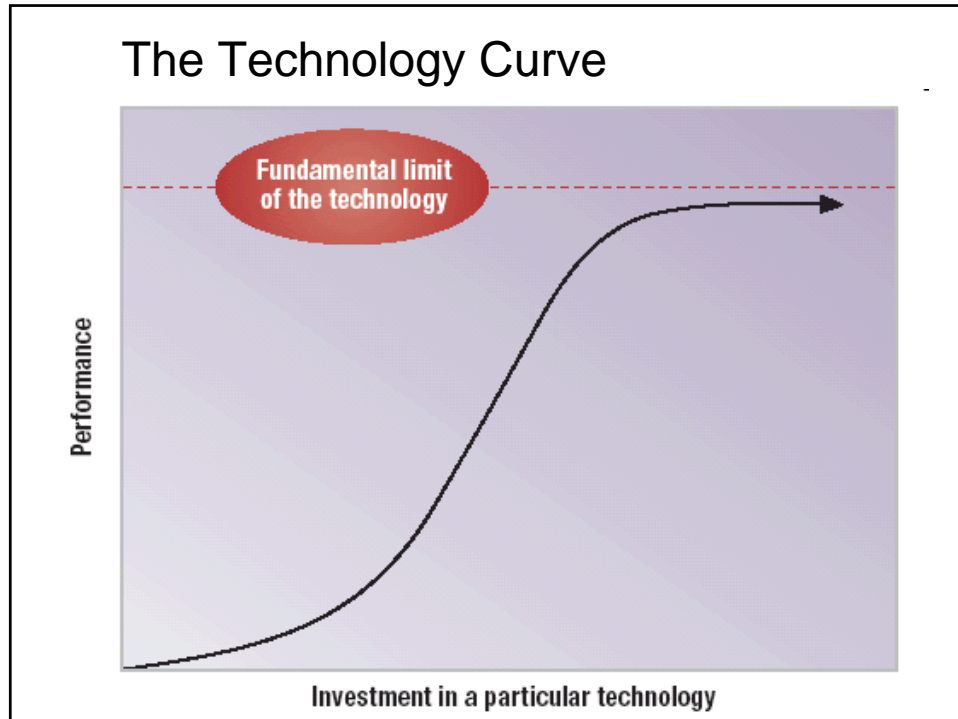
Glenn Anderson
IBM Lab Services and Training

SHARE Session 14277



SHARE Member Survey

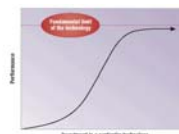
- Employers want well-rounded, business-savvy employees
- “People need to understand the ‘big picture’ of how computers work, from the deep level programming to how it affects – and interconnects with – applications, servers, and other things in the data center”



The Technology Curve Implications

- The extent and nature of payoff from technologies depends on their position on the curve
- Payoff and performance of new technologies can actually be lower than the payoff and performance of the technologies they are meant to replace

From *The IT Payoff*, by Sarv Devaraj and Rajiv Kohli

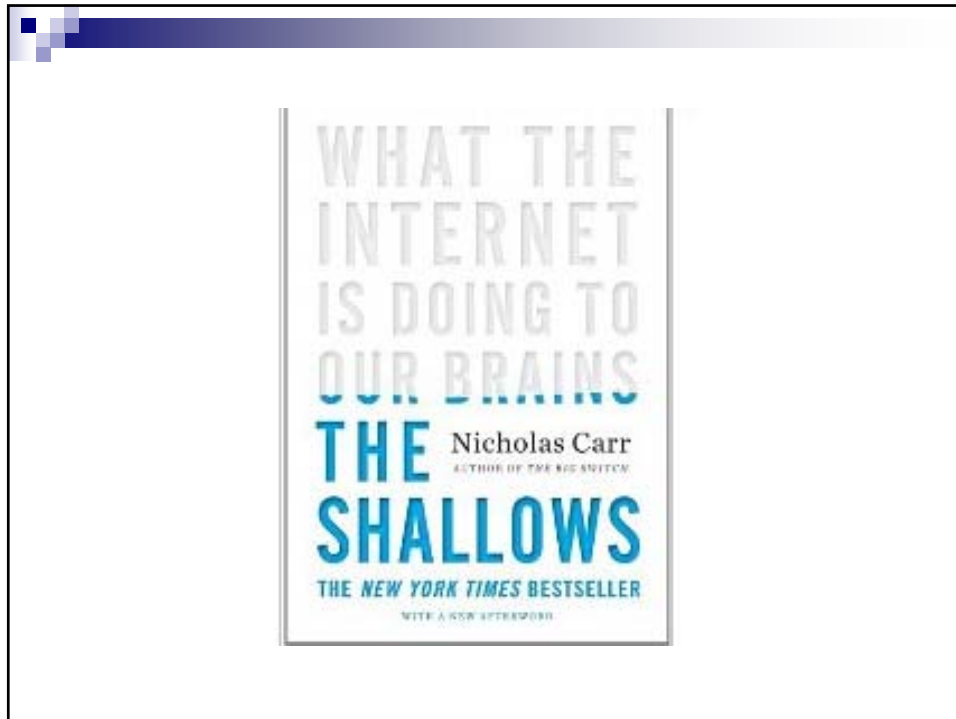


Disruptive Technology

- New way of doing things that disrupts or overturns traditional business methods and practices
- Attributes initially not valued by customers
- May look financially unattractive to established companies



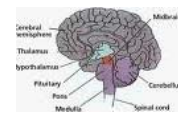
Customers find little use for disruptive products ... at first



We find ourselves between two technological worlds.....

- After 550 years, the printing press and its products are being pushed from the center
- First wave of electronic media – radio, cinema, phonograph, television
 - They could displace but not replace the book
- Today's electronic revolution – desktop, laptop, handheld – become constant companion and the Internet becomes medium of choice for information

From The Shallows, by Nicholas Carr



The effects of the net.....

- The time we spend reading print publications is decreasing
- The multimedia Net fragments content and disrupts our concentration

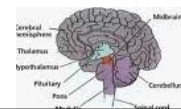
From *The Shallows*, by Nicholas Carr



The effects of the net.....

- The time we spend reading print publications is decreasing
- The multimedia Net fragments content and disrupts our concentration
- Media companies adapt to the audience's new expectations
- Publication becomes an ongoing process rather than a discrete event
- The Net seizes our attention only to scatter it

From *The Shallows*, by Nicholas Carr



“The world of the screen is a very different place from the world of the page. A new intellectual ethic is taking hold. The pathways in our brains are once again being rerouted.”

From *The Shallows*, by Nicholas Carr



IBM Watson



IBM zEnterprise System

zEnterprise Unified Resource Manager


- Provides platform, hardware and workload management

IBM zEnterprise™ zEC12

- Most efficient platform Capable of massive scale up, over 50 Billion Instructions per Second (BIPS)

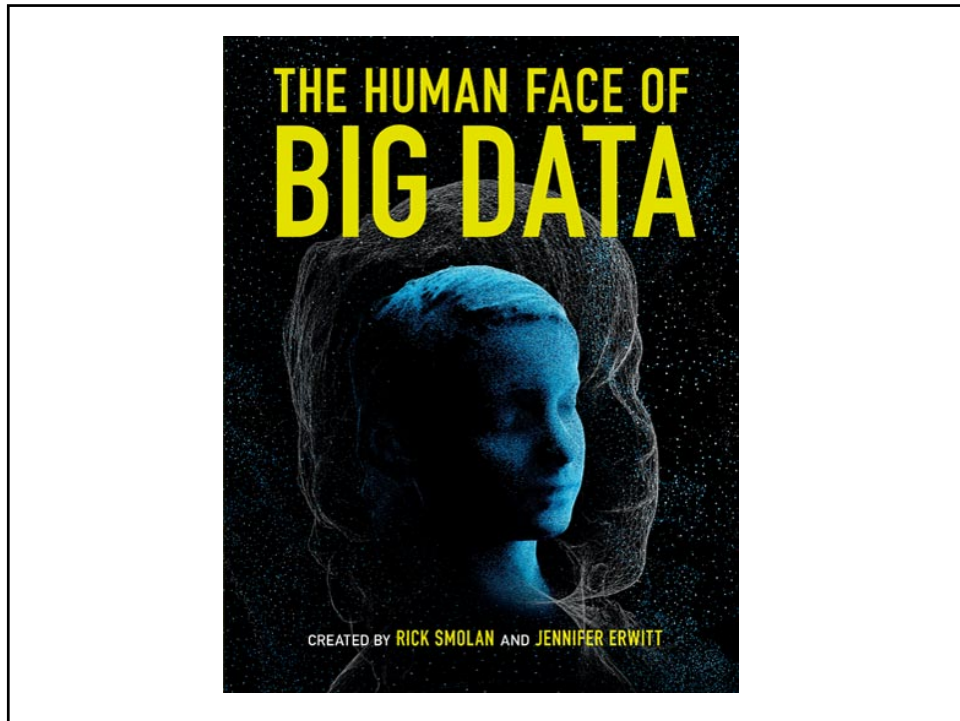
IBM zEnterprise BladeCenter® Extension (zBX)

- Selected IBM POWER7® blades and IBM x86 Blades¹ for tens of thousands of AIX® and Linux applications



The diagram illustrates the IBM zEnterprise System architecture. It features a central stack of zEC12 mainframe units. To the left, a vertical column of icons represents supported operating systems: z/OS, z/VM, z/VSE, z/TPF, and Linux. Below these is the Hardware Management Console (HMC). To the right, a stack of BladeCenter Extension (zBX) blades is shown, with icons for AIX and Linux. A central circular icon with a multi-colored wheel is positioned above the mainframe units.







Prioritizing disruptions that matter



User Experience

- Is it easy for people to use?
- Does it enable people to connect in new ways?



Business Model

- Does it tap new revenue streams?
- Is it done at a lower cost?



Ecosystem Value

- Does it change the flow of value?
- Does it shift power from one player to another?

Augmented Reality



Google Glass



http://www.youtube.com/watch?v=IK_cdkpazjI

Data is the.....



.....New Astrology

Ubiquitous
Computing



LIKEONOMICS
The new global currency isn't made of paper.
It's made of relationships & affinity.

A 3D-style blue and white Facebook "Like" button icon, showing a hand with the thumb up, set against a light blue square background.

Most Trusted Forms of Advertising

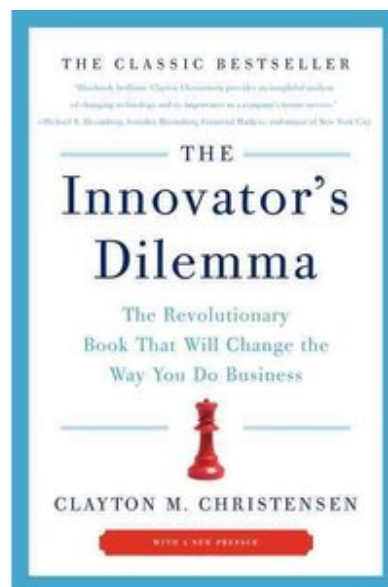
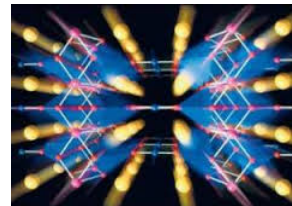
- Recommendations from people known – 90%
- Consumer opinions posted online – 70%
- Search engine result ads – 41%
- Online banner ads – 33%
- Text ads on mobile phones – 24%



Five Corporation-Crushing Disruptive Technologies That Will Empower the Masses

- Decentralized Currencies (Bitcoin)
- Crowd Funding
- Graphene
- Psychedelics
- 3-D Printing and Digital Fabrication

<http://www.youtube.com/watch?v=quK6vmnjgUs>



Disruptive Innovation

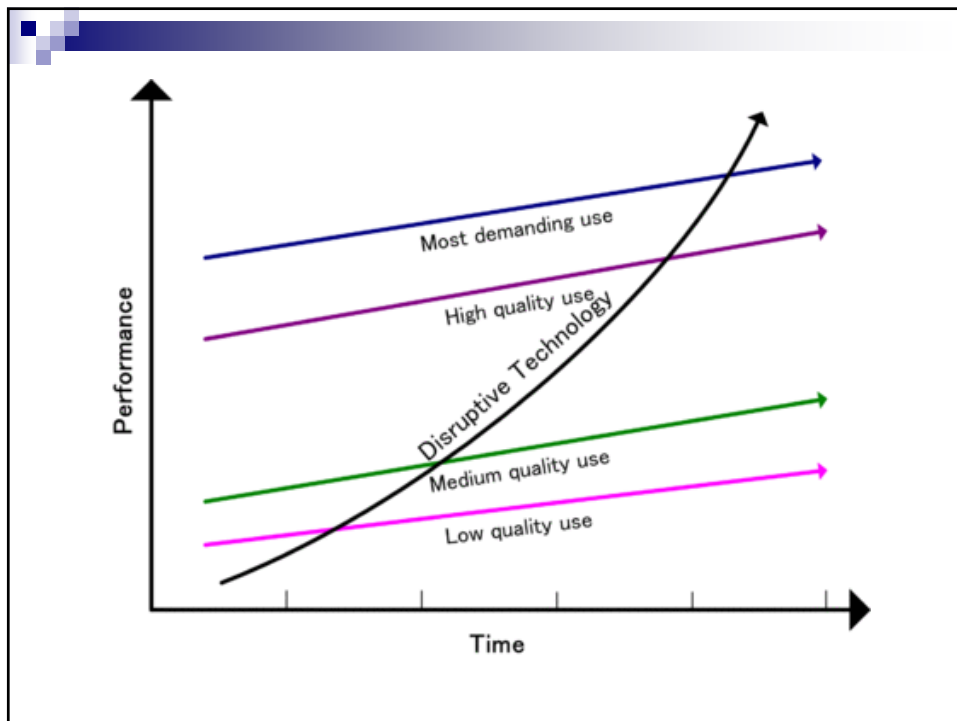
- Helps create a new market and value network
- Disrupts an existing market and value network, displacing an earlier technology
- Improves a product or a service in ways market did not expect
- Designing for a different set of consumers in the new market, later lowering prices in existing market



The Disruptor



The Disrupted



Examples of Disruptive Innovations

- Online retailing
- Distance education
- Outpatient clinics
- USB flash drives
- Digital Photography
- LCD
- Plastic

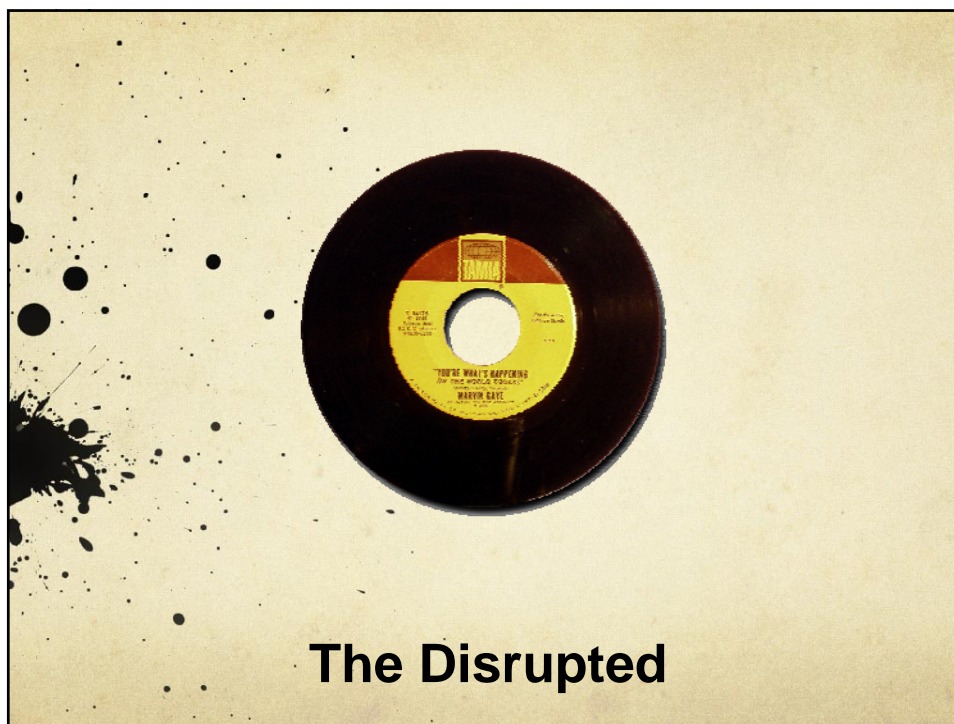


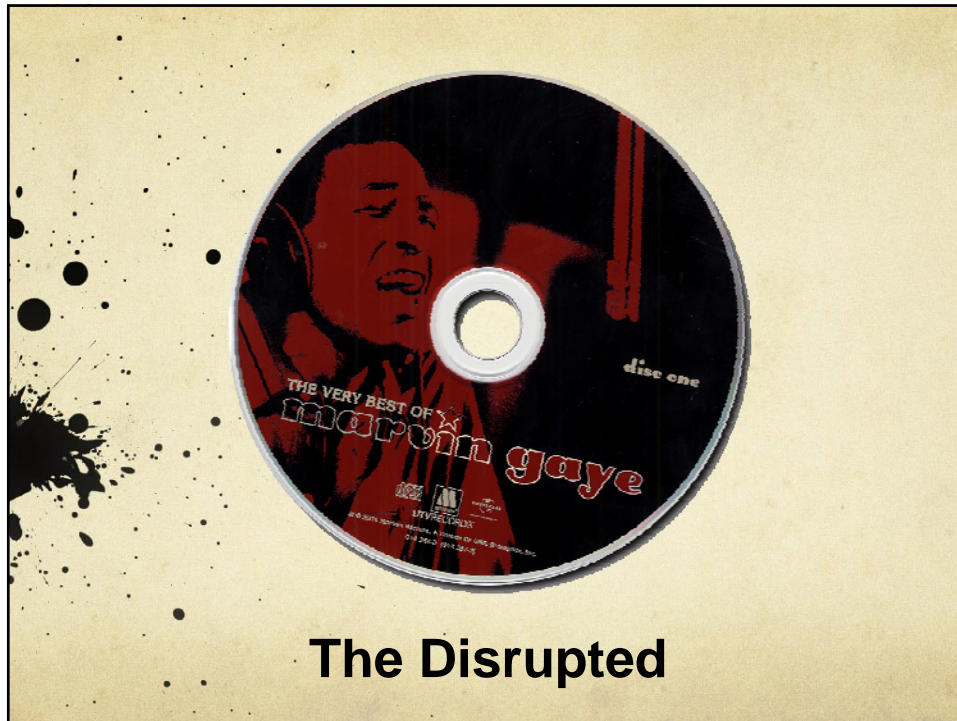


The Disruptor



The Disrupted





Principles of Disruptive Technology

- Companies depend on customers and investors for resources
- Small markets don't solve the growth needs of large companies
- Markets that don't exist can't be analyzed
- Technology supply may not equal market demand



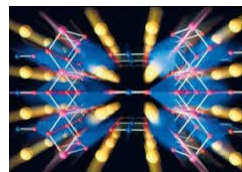
NEW social networking site:

Yourplace

- invite friends
- live chat
- share photos
- exchange ideas
- customize your domain
- put stuff on your wall
- show things you like
- real-time feedback

wronghands1.wordpress.com © John Atkinson, Wrong Hands

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