Social Implications

mysteries of the region

History of Information

April 19, 2012



Friday, April 20, 2012



May 9

11:30 - 2:30

155 Kroeber

study sessions

Tuesday May I - Thursday May 3

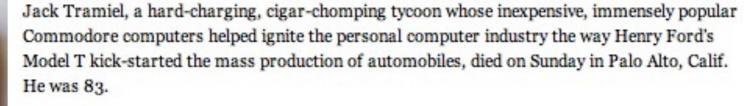
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"commodore ate the apple"

Jack Tramiel, a Pioneer in Computers, Dies at 83

By DOUGLAS MARTIN Published: April 10, 2012

aob





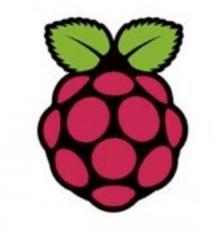
Enlarge This Image



Jack Tramiel, president of Commodore International, with his computers at a 1984 consumer electronics show in Las Vegas. The cause was heart failure, his son Sam said.

Commodore rose to prominence in the 1970s and '80s, producing the first computer to sell a million units. Another model, the Commodore 64, sold more than 20 million units — four times the sales of the Apple II, which is often said to have established the personal computer market. Sales of the 64 exceeded \$1 billion.

Mr. Tramiel's business model was ruthlessly efficient: he introduced a new product at the lowest price possible, and as the competition matched his price he went even lower. He did this by slashing costs, hiring top engineering talent, selling in mass-m and owning the suppliers of chips and other compone in an instant, going so far as to introduce a new prod an existing one. He liked to say that business is war.

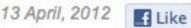


who's blowing raspberries?

First Batch Of £16 Raspberry Pi PCs Arrives



I have been musing and writing about technology since 1999 back in my native country Mauritius, dreaming back in 1997 of a world full of avatars...



raspberry pi computer hardware



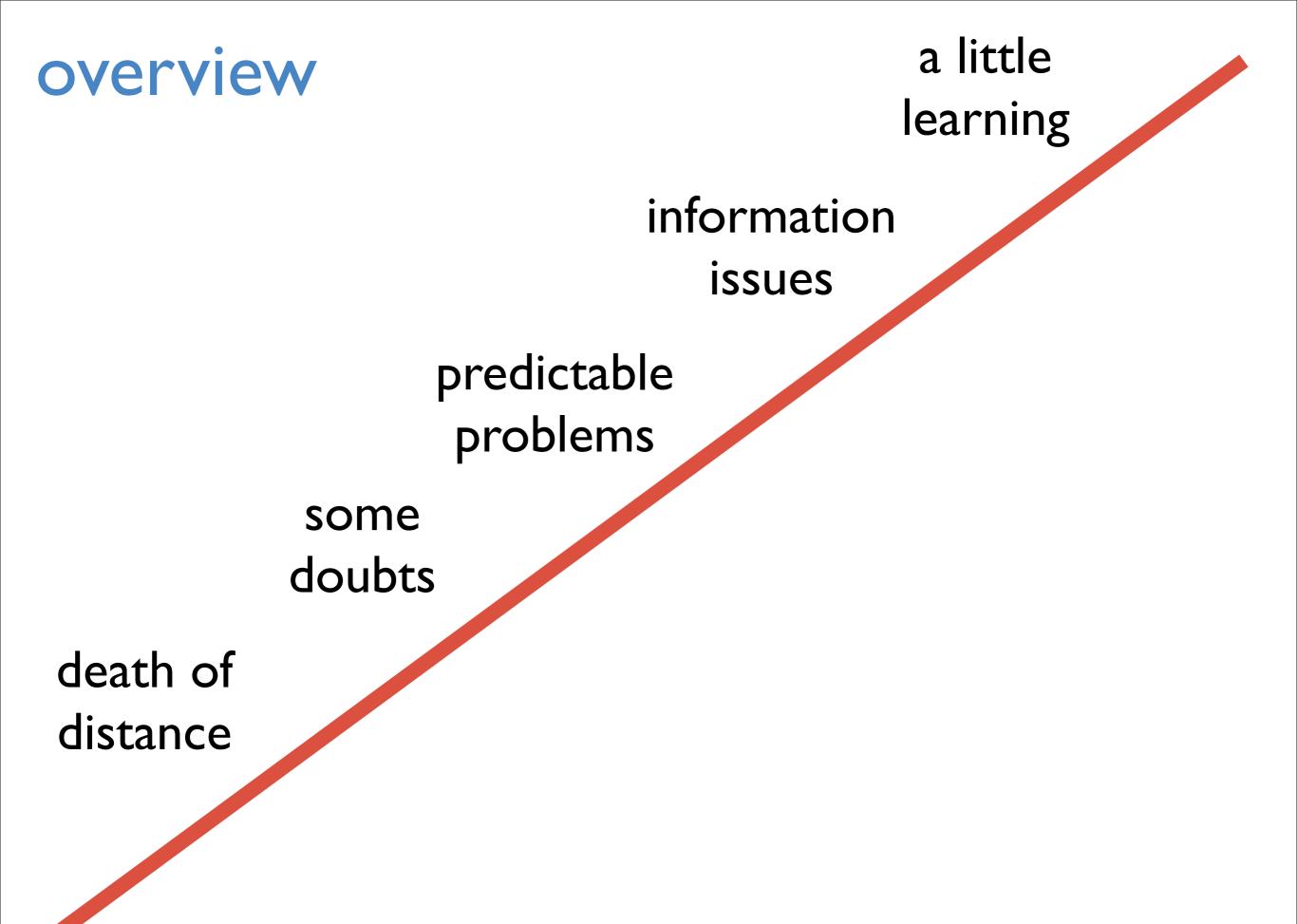
And some lucky students got it for free

It seems fitting that the first batch of <u>Raspberry</u> Pi computers landed in the UK in the hands of school children based in Leeds as what many consider as another wave of grassroot computing revolution, another BBC Micro 2.0, begins.

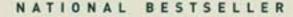
The Raspberry Pi has been designed from scratch to get anyone interested in computer programming to do so without forking out

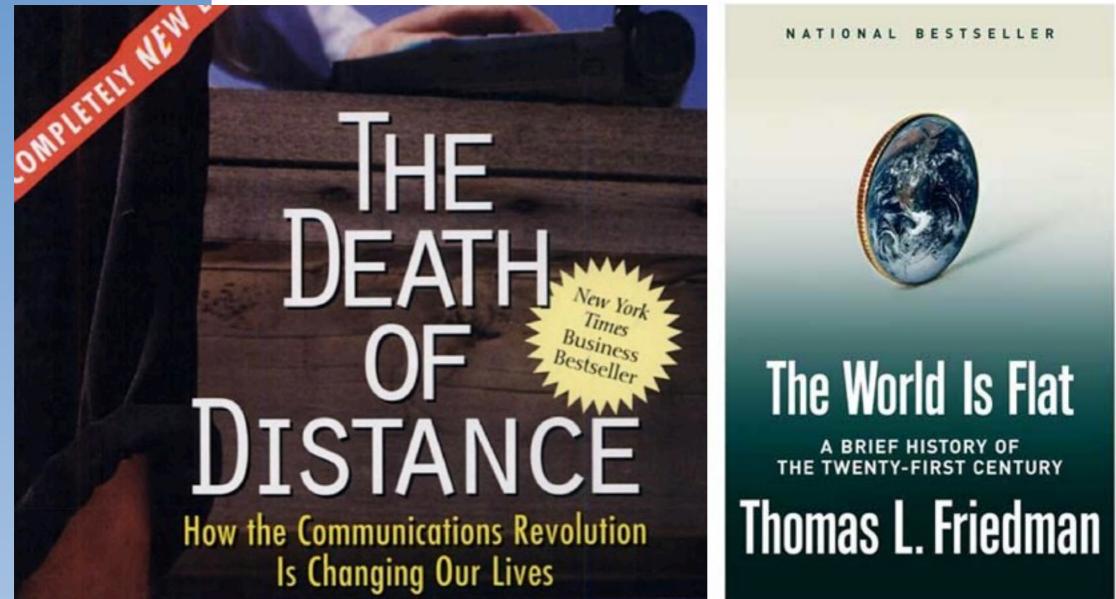
much; the base unit can connect to a television like the Commodore C64 or the Sinclair ZX81.

According to the BBC, the first batch has been presented by Eben Upton today, the school project co-ordinator, in an event held at the Leeds offices of Premier Farnell, one of the official PI distributors.



which century?





trendspotting

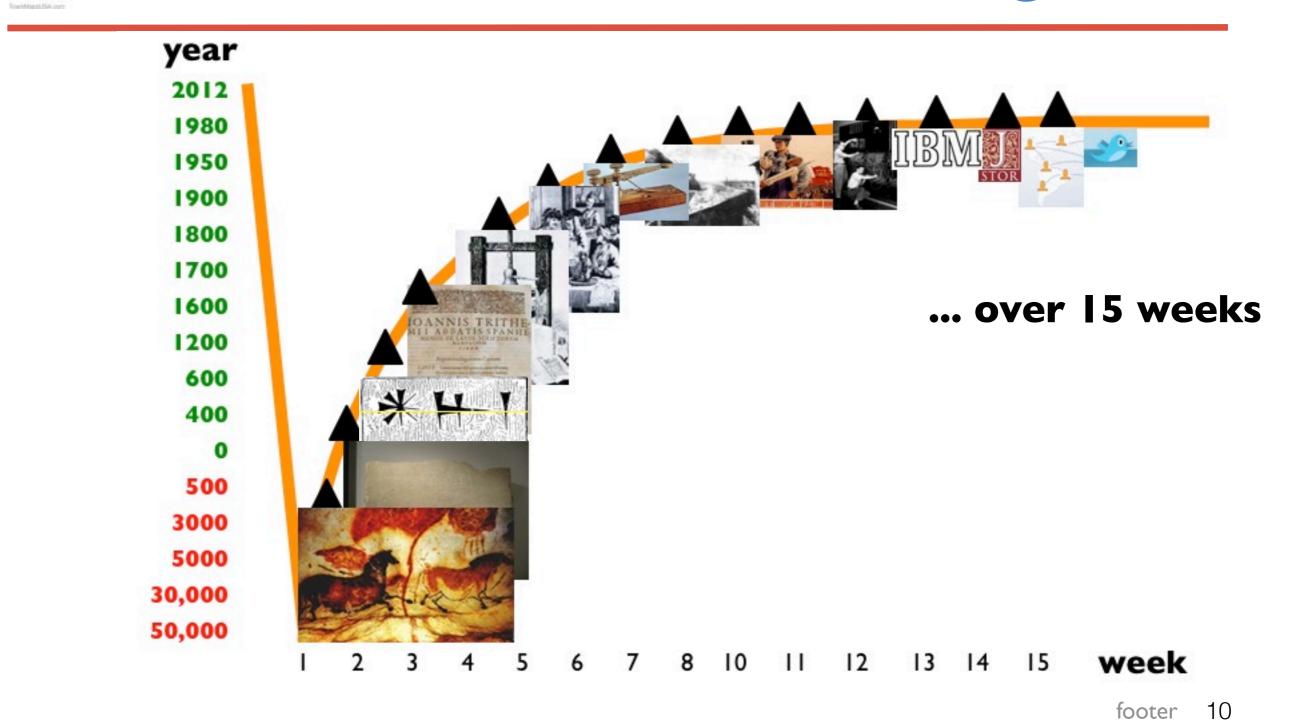
- The Death of Distance. Distance will no longer decide the cost of communicating electronically. Indeed, once investment has been made in a communications network, in buying a computer or tele-7. Increased Value of Brand. Companies will want ways to push phone, or in setting up a Web site, the additional cost of sending or receiving an extra piece of information will be virtually zero.
- The Fate of Location. Companies will be free to locate many screen-based activities wherever they can find the best bargain of skills and productivity. Developing countries will increasingly perform on-line services - including monitoring security screens, inputting data from forms, running help-lines, and writing software code - and sell them to the rich industrial countries that generally produce such services domestically.
- Improved Connections. Most people on earth will eventually have access to networks that are all interactive and broadband. The Internet will continue to exist in its present form, but will also carry many other services, including telephone and television.
- 4. Increased Mobility. Every form of communication will be available for mobile or remote use.
- More Customized Networks. The huge capacity of networks will 5. enable individuals to order "content for one": that is, individual consumers will receive (or send) exactly what they want to receive (or send), when and where they want it.

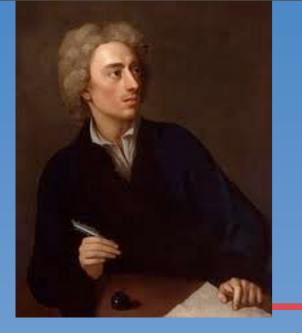
- 6. A Deluge of Information. Because people's capacity to absorb new information will not increase, they will need filters to sift, process, and edit it.
- their information ahead of their competitors'. One of the most effective will be branding. What's hot - whether a product, a personality, a sporting event, or the latest financial data - will attract the greatest rewards.
- 8. More Minnows, More Giants. Many of the costs of starting a new business will fall and companies will more easily buy in services. So small companies will start up more readily, offering services that, in the past, only giants had the scale and scope to provide. If they can back creativity with competence and speed, they will compete effectively with larger firms. At the same time, communication amplifies the strength of brands and the power of networks. In industries where networks matter, concentration will increase.
- 9. More Competition. More companies and customers will have access to accurate price information. In addition, some entry barriers will fall. The result will be greater competition in many markets, resulting in "profitless prosperity": it will be easier to find buyers, but harder to make fat margins.

J



looking back





300 years (or 25 classes)





"Ye Gods, annihilate but space and time, And make two lovers happy."

1728



a single point

Claude Chappe (1763-1805)

revolutionary ideas



"The establishment of the telegraph is ... the best response to the publicists who think that France is too large to form a Republic. The telegraph shortens distances and, in a way, brings an immense population together at a single point."

--Claude Chappe, 1793

disappearance

lu anchina où lindustrie français, eurogiste for Parvenu à la suite de travaux longs et to at Sex-Decouverter, et Publier men rues at moyour remains un Brever Dinvestion pour authentiques mes pénibles à trouver, enfin, un art nouveau canf at me deconsorter visultate . Condine les Ballons Dans l'air a été proclame offible; Car on n'e peuter Courtiding Caution of atoms egardé comme impossible par beaucoup des Dair Comme un mayou de progradion Suffirant; Cu effet, riques are des Ballous Sphniques texis impossibles avans, une route nouvelle va fournir devant Duperron les efforts de l'homme, les distances vont disparaître et les extremités du Monde se Brevets d'Invention, rapprocher." de perfectionnement et d'importation, stable par la Lois du 7 janvier et 25 mai 1791 Certificat de demande d'un Brevet 9 Surention_ la cong nur lilleri à Mc Desperson (form ban)) ~ Paus_ lipersonal de la Chines Da la Requir la Mc Depenson (forme Soint) amintra h Con Regele, Summer a Line, Bu De De K 100, as laquelle il aspare que, desirant jour des decits de propriété ris our action à importance la discourre de perfect men later, il demande in Const V. Instation

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Chapitre 1 ...

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beaucings de Sarane, une route nour elle ga fouris

unt las afforde de Chonsine, les Distance vous disparinter

le Crois Devoir communiquer le resultan de une travaux

one neighbourhood

"It is not visionary to suppose that it would not be long ere the whole surface of this country would be channelled for those nerves which are to diffuse, with the speed of thought, a knowledge of all that is occurring throughout the land; making one neighborhood of the while country."

Morse to Congress, 1838

still going

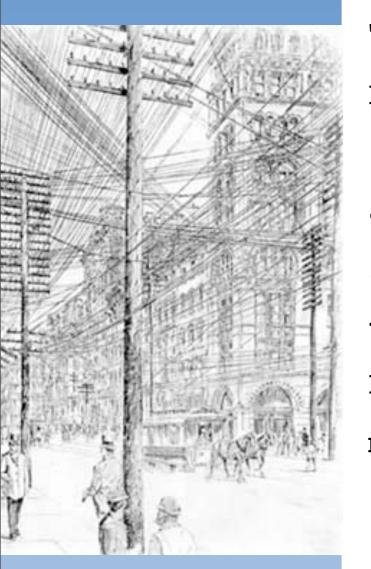


sea to shining sea

"the almost complete annihilation of time and space between the distant antipodal points of the American continent ... produced by the construction of the Pacific Railroad"

> -- John Wesley Clampitt, Echoes from the Rocky Mountains, 1888

going global

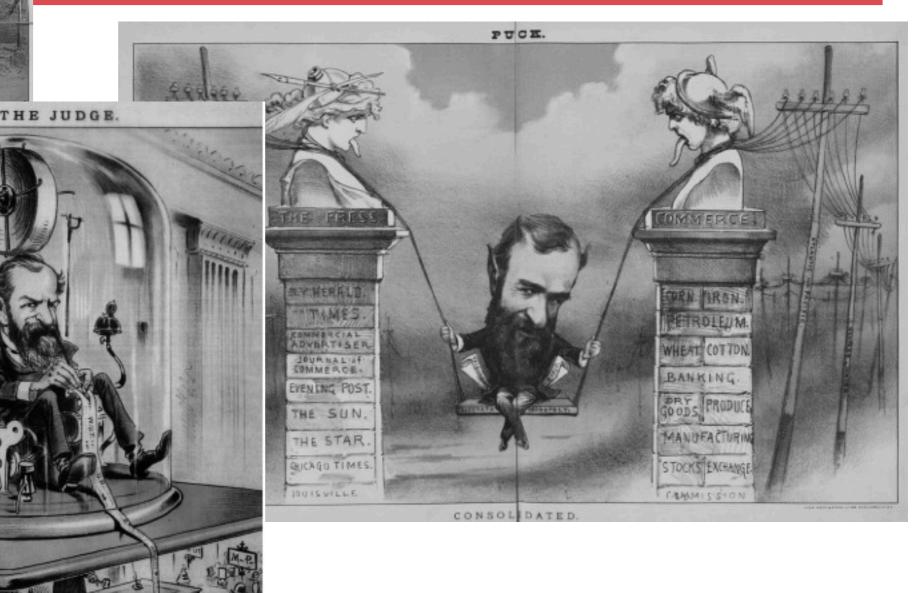


"A line of telegraph ... from London to Kurrachee, and from thence to every part of India, ... intelligence and commands be daily and hourly communicated with the speed of lightening ... in this **virtual annihilation of time and space** in the communications between England and her distant possessions will be more than realised"

--Blackwood's Edinburgh Magazine, 1857

Richard John, "Robber Barons Redux: Antimonopoly Reconsidered. *Enterprise & Society* (2012) 13(1) 1-38

(aside)



PUCE.

THE TWO PHIL



25. Global Peace. Democracy will continue to spread: people who live under dictatorial regimes will be more aware of their governments' failures. Democracies have always been more reluctant to fight than dictatorships. In addition, countries will grow yet more economically interdependent. People will communicate more freely with human beings on other parts of the globe. As a result, while wars will still be fought, the effect may be to foster world peace.

peace

"It is impossible that old prejudices and hostilities should longer exist, while such an instrument has been created for the exchange of thought between all the nations of the earth." -- Charles Briggs & Augustus Maverick,

The Story of the Telegraph, 1858

"Steam was the first olive branch offered to us by science. Then came the still more effective olive branch--this wonderful electric telegraph, which enables any man who happens to be within reach of a wire to communicate instantaneously with his fellow men all over the world."

> -- Ambassador Thornton, 1858 27-Hofl12-SocImp-PD 18



once again, one voice

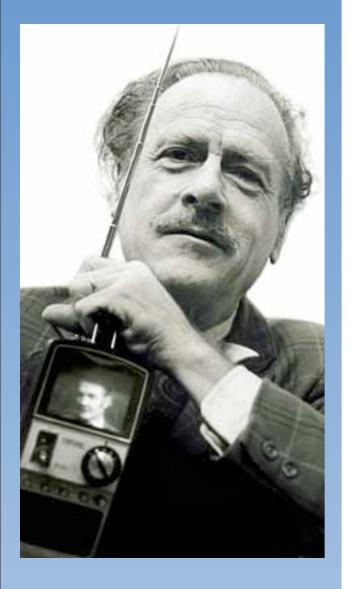
"Someday we will build up a world telephone system, making necessary to all peoples the use of a common language or common understanding of languages, which will join all the people of the earth into one brotherhood. There will be heard throughout the earth a great voice coming out of the ether which will proclaim, 'Peace on earth, good will towards men.'"

--John J. Carty, AT&T, 1891

global village

"Electric circuitry has overthrown the regime of 'time' and 'space' and pours upon us instantly and continuously concerns of all other men. It has reconstituted dialogue on a global scale. Its message is Total Change, ending psychic, social, economic, and political parochialism... Ours is a brand-new world of allatonceness. 'Time' has ceased, 'space' has vanished. We now live in a global village ... a simultaneous happening."

--Mcluhan et al., Medium is the Massage, 1967



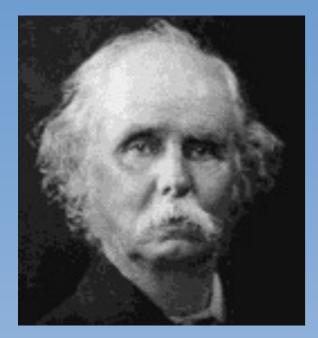
"the revolution begins at last"

"This has been predicted before; the difference now is that it is actually starting to happen"



27-Hofl12-SocImp-PD 21

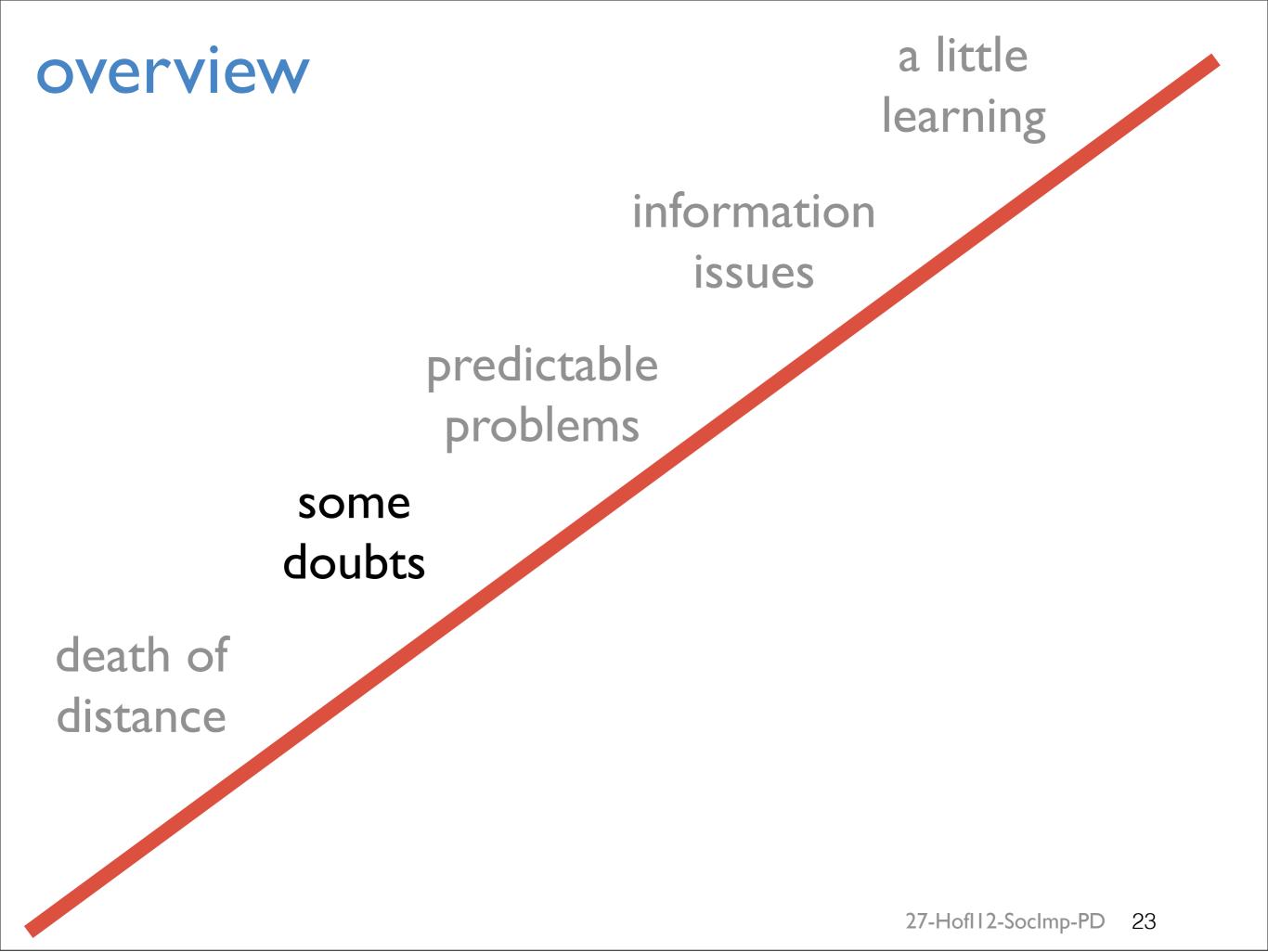
principled explanation?



Alfred Marshall 1842-1924

"Every cheapening of the means of communication, every new facility for the free interchange of ideas ... alters the action of the forces which tend to localize industries."

> --Alfred Marshall, Principles of Economics, 1920



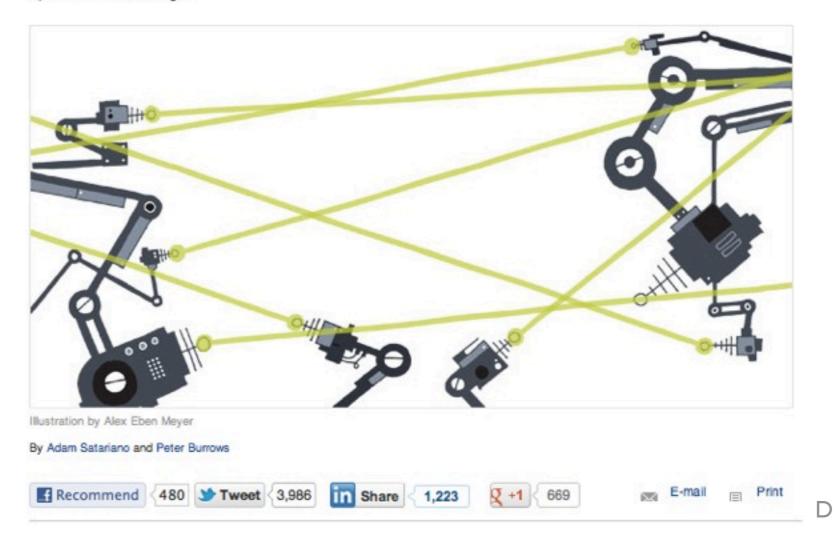
disaggregation?

24

going global

Apple's Supply-Chain Secret? Hoard Lasers

The iPhone maker spends lavishly on all stages of the manufacturing process, giving it a huge operations advantage



"He will go to the nearest shop for a trifling purpose, but for a more important purchase he will take the trouble of visiting any part of the town where he knows that there are specially good shops for his purpose." --Alfred

Marshall, Principles of Economics, 1920

or integration?



Friday, April 20, 2012

The Conscience of a Liberal



PAUL KRUGMAN

both ways?

January 22, 2012, 5:36 PM

Apple And Agglomeration

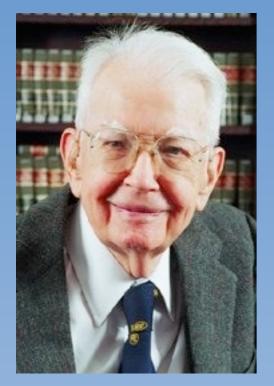
The <u>big Times article on Apple</u> manufacturing was excellent, and I'll have more to say about it when I have the time. One thing worth noting right away, however, is that the piece is in large part an essay on the <u>economies of agglomeration</u> (pdf, wonkish):

"The entire supply chain is in China now," said another former high-ranking Apple executive. "You need a thousand rubber gaskets? That's the factory next door. You need a million screws? That factory is a block away. You need that screw made a little bit different? It will take three hours."

The point is that manufacturing plants don't exist in isolation; they benefit a lot from being part of a manufacturing cluster, with specialized suppliers and a large pool of workers with the right skills close at hand. This is the kind of stuff I emphasized in my own work on both trade and economic geography.

The policy implications aren't as clear as you might imagine. But more about that when I have time to do it right.

theory of the firm?



Ronald Coase 1910

economic challenge

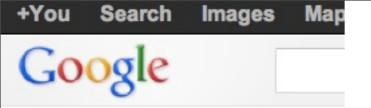
free-market theory nature of the firm make or buy transaction costs



or theory of information?

staying close to the customer





Dishwashers

Celebrate Earth Day with a new energy efficient dishwasher

or theory of information?

staying close to the customer

Tee Party

Look effortlessly cool in a tshirt dress this spring



+You	Search	Images	Мар
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amazon

Dishwashers

new energy efficient

Celebrate Earth Day with a

Today's Deals Gift

Kind

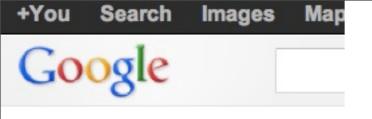
or theory of information?

staying close to the customer



The #1 best-selling product (\$199, Shop now

Kindle e-Readers from \$79



Dishwashers

Celebrate Earth Day with a new energy efficient disbwasher

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Shop by Department -	Search	All 👻	
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kindle	fir lling pr	e roduc	ct

\$199 > Shop now

Web Coupons Know Lots About You, and They Tell

STEPHANE CLIFFORD blished, April 16, 2010

or decades, shoppers have taken advantage of coupons. Now, the coupons are taking dvantage of the shoppers.

P Readers' Comments

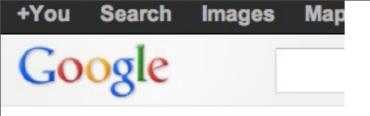
Readers shared their thoughts on this article. Read All Comments (64) » A new breed of coupon, printed from the Internet or sent to mobile phones, is packed with information about the customer who uses it. While the coupons look standard, their bar codes can be loaded with a startling amount of data, including identification about the customer, Internet address, <u>Facebook</u> page information and even the search terms the customer used to find the coupon in the first place.

nd all that information follows that customer into the mall. For example, if a man walks ato a Filene's Basement to buy a suit for his wedding and shows a coupon he retrieved nline, the company's marketing agency can figure out whether he used the search terms Hugo Boss suit" or "discount wedding clothes" to research his purchase (just don't tell his

or theory of information?

staying close to the customer





Dishwashers

Celebrate Earth Day with a new energy efficient disbwasher

Today's Deals

All 🔻

Search

Gift

amazon	
Shop by Department -	

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Instant Video MP3 Store Cloud Player
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the #1 best-selling product (\$199 > Shop now

Veb Coupons Know Lots About You, and They Tell

blished: April 16, 2010

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or theory of information?

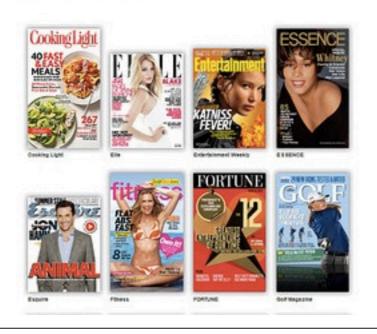
April 3, 2012, 8:00 PM

stayin New Digital Magazine App Launches on Wednesday

Article	Comments			
Email 🗏	Print	E Like Send	S 2 + More	- Text +

By Russell Adams

<u>Next Issue Media</u>, the joint venture of five magazine and newspaper publishers to create a storefront for their tablet editions, will launch its long-awaited newsstand app on Wednesday.



The first version of the app will have 32 titles representing just under a quarter of the magazine market by circulation, though it will only be available on Android tablets. NIM decided some time ago to launch with Android in part because iPad maker Apple Inc. had tighter restrictions on how apps could be priced and sold. NIM will submit an app to Apple, which has since softened some of its rules, in the coming weeks.

Friday, April 20, 2012

more complications

if distance is dead ...



... why are they here?

at the centre ...

... of cheapening communication



fl12-SocImp-PD 30

free interchange
of ideas ...
alters the
action of the
forces which
tend to localize
industries."

"Every

cheapening of

the means of

every new

communication,

facility for the

--Alfred Marshall, Principles of Economics, 1920

old connections?

The New York Times

Business Day Technology

WORLD	U.S.	N.Y. / REGION	BUSINESS	TECHNOLOGY	SCIENCE	HEALTH	SPORTS	OPINION
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Behind Instagram's Success, Networking the Old Way

By SOMINI SENGUPTA, NICOLE PERLROTH and JENNA WORTHAM Published: April 13, 2012

SAN FRANCISCO — Past midnight, in a dimly lighted warehouse jutting into the San Francisco Bay, Kevin Systrom and Mike Krieger introduced something they had been working on for weeks: a photo-sharing <u>iPhone</u> application called Instagram. What happened next was crazier than they could have imagined.



Peter DaSilva for The New York Times Instagram's offices in San Francisco. From left, Shayne Sweeney, Mike Krieger, Josh Riedel and Kevin Systrom were at work on their app last May.

Related

In a matter of hours, thousands downloaded it. The computer systems handling the photos kept crashing. Neither of them knew what to do.

"Who's, like, the smartest person I know who I can call up?" Mr. Systrom remembered thinking. He scrolled through his phone and found his man: Adam D'Angelo, a former chief technology officer at <u>Facebook</u>. They had met at a party seven years earlier, over beers in red plastic cups, at the Sigma Nu fraternity at Stanford University. That night in October 2010, Mr. D'Angelo became Instagram's lifeline.

★ TWITTER
★ INKEDIN
★ E-MAIL
↓ PRINT
♦ SINGLE PAGE
★ REPRINTS
♦ SHARE

F RECOMMEND

"Adam spent like 30 minutes on the phone with us," Mr. Systrom recalled, "walking us through the basic things we needed to do to get back up."

These

difficulties ...

Are however

being diminished

by the railway,

the printing

press and the

telegraph."

--Alfred Marshall, Principles of Economics, 1920

- 10. Increased Value of Niches. The power of the computer to search, identify, and classify people according to similar needs and tastes will create sustainable markets for many niche products. One of the most valuable improvements will be in the ability of people to locate things that have hitherto been hard to find: from friends with similar tastes to specialized services.
- 11. Communities of Practice. The horizontal bonds among people performing the same job or speaking the same language in different parts of the world will strengthen. Common interests
- 12 The Loose Knit Corporation Culture and communication networks, rather than rigid management structures, will hold companies together. Vertically integrated companies that do the costs of dealing with arm's-length suppliers and partners. Alliances will bond companies together at many levels.
- 13. Openness as a Strategy, Loyalty, trust, and open communications will reshape the nature of supplier and customer contacts. Suppliers will draw directly on their customers' databases, working as closely and seamlessly as an in-house supplier does now. Customers will be able to manage and track their orders through the production process.
- 14. Manufacturers as Service Providers. Companies will tailor their products more precisely to a customer's tastes and needs. Some will retain lasting links with their products: car companies, for instance, will continue electronically to track, monitor, and learn about their vehicles throughout the product's life cycle. New opportunities to build links with customers will emerge as a result.
- 15. The Inversion of Home and Office. The line between home and work will blur. People will increasingly work from home and shop from work. The office will become a place for the social aspects of work such as networking, brainstorming, lunching, and gossiping. More people will work on the move: from their cars, from hotel rooms, from airport departure lounges. Home design will change: new homes will routinely have home offices.

- The Proliferation of Ideas. New ideas and information will travel faster to the remotest corners of the world. Developing countries will acquire more rapidly access to the industrial world's knowledge and ideas. That will help many developing countries to grow more quickly and even to narrow the gap with the rich world.
- 17. The Decline of National Authority. Governments will find national legislation and censorship inadequate for regulating the

experiences, and pursuits, rather than proximity, will bind t Daying both Ways.

- 18. Loss of Privacy. Protecting privacy will be difficult, as it was in the villages of past centuries. Governments and companies will easily monitor people's movements. Machines will recognize physical attributes such as a voice or fingerprint. Civil libertarians will worry, but others will rationalize the loss as a fair exchange for the reduction of crime, including fraud and illegal immigration. In the electronic village, there will be little true privacy - and little unsolved crime.
- 19 A Global Premium for Skills. Pay differentials will continue to widen, as companies fight for the scarce talents of well educate workers. Managerial and professional jobs will be less vulnerabl to competition from automation than jobs requiring relatively little skill. In addition, the Internet enhances the value of creative use of information. On-line recruitment will make the job market more global and efficient. As a result, highly skilled people will earn broadly similar amounts, wherever they live in the world.
- 20. Rebirth of Cities. As individuals spend less time in the office an more time working from home or on the road, cities will change from concentrations of office employment to centers of entertainment and culture. They will become places where people congregate to visit museums and galleries, attend live performances of all kinds, participate in civic events, and dine in good restaurants. Some poor countries will use low-cost communications to stem the flight from the countryside by providing rural areas with better medical services, jobs, education, and 32 entertainment.

home work?

percentage of home workers in population

1960	1970	1980	1990	1999	2005
0.025	0.013	0.0095	0.014	0.034	0.039



▶ START-UP ▶ RUNNING A BUSINESS ▶ FINANCE ▶ LEADERSHIP & MANAGING ▶ SALES & MAF

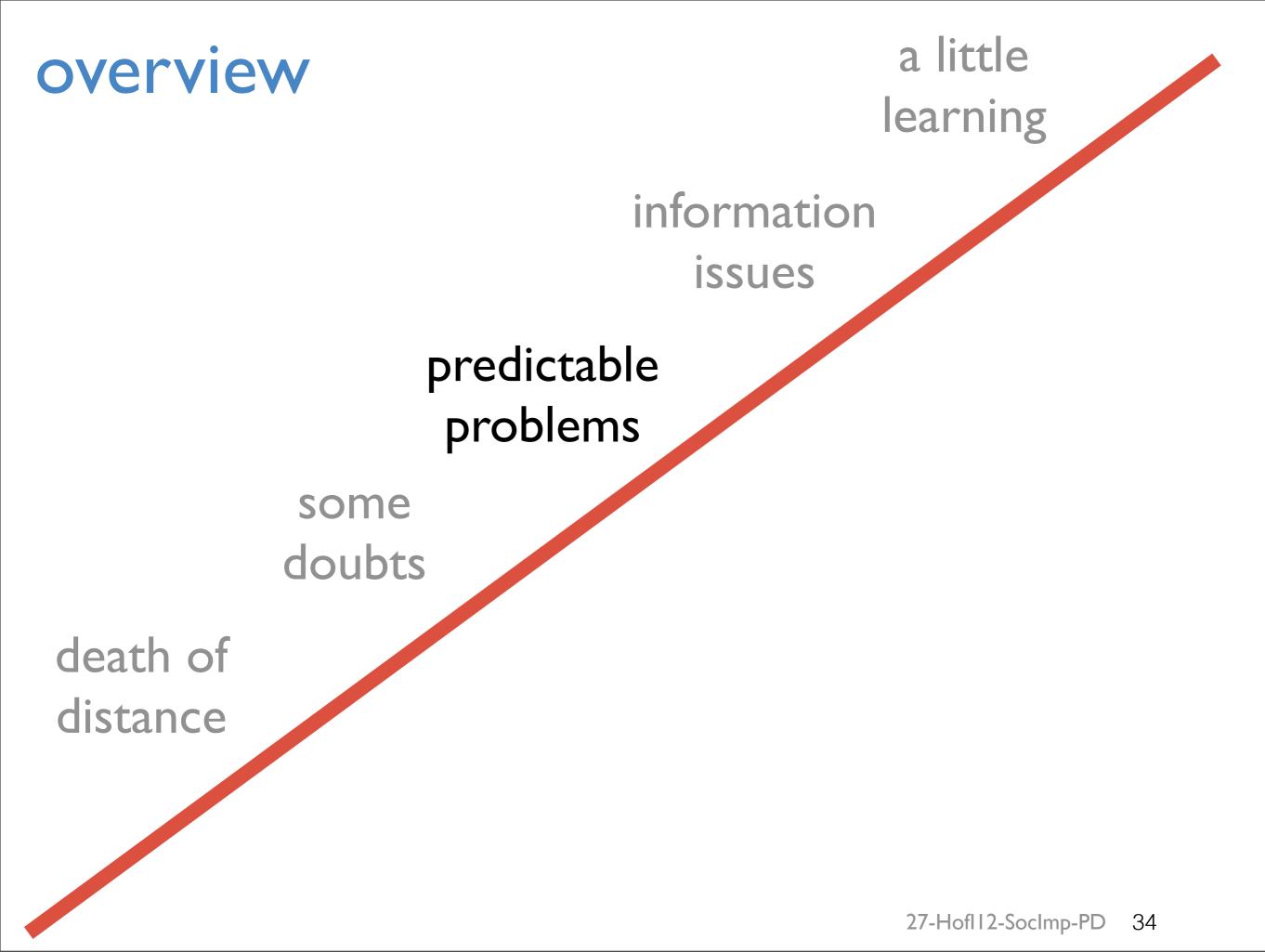
Archives >

April 2010





The Case, and the Plan, for the Virtual 33 Company



"Ceci tuera ..."

proclaiming supersession

There are persons who can write not illegibly in pencil, but are as enigmatical as Rufus Choate or Horace Greeley when they take up the pen. There are persons too lazy to resort to ink and pen who can conquer their besetting sin enough to make a few dabs with a pencil. Living must have been more laborious-before the pencil age. Blue pencil, red pencil, what should we do without them? Yet writing with one's own hand seems to be disappearing, and the universal typewriter may swallow all. Librarians of a century or two hence may be searching for the last reference to pencils.

New York Times 1938

the new vs the old N





Because everything in her home is waterproof, the housewife of 2000 can do her daily cleaning with a hose

nunberg error



The front cover of the second issue of Eagle magazine (1950); from the book under review

Behold the Computer Revolution

UCUUNA

By PETER T. WHITE National Geographic Staff

Illustrations by National Geographic Photographers BRUCE DALE and EMORY KRISTOF

M^Y WIFE IS MAD AT COMPUTERS. "Those awful machines," she calls them. "How they mess up our credit card accounts! Imagine sending a bill for \$232.24 every month for four months after you've paid it!"

But I'm not mad. That mixup was settled after five months; and we never did feel as computer-harassed as some Americans, notably the Kansan repeatedly reminded that his department store bill was "overdue in the amount of \$00.00." At last he too managed to pacify the computer with a check for \$00.00.

In a way, though, my wife is right. After a year of looking closely at computers—at what they are doing all over the country, what they are likely to do before long, and what their effects are expected to be upon us all and upon our descendants—I must say that these machines are indeed awful, in just about every sense the dictionaries assign to that word: inspiring dread, appalling, objectionable; solemnly impressive; commanding reverential fear or profound respect; sublimely majestic.

In the end I found my own ways of



constant roles

"Perhaps someday the desk worker fed up with traffic jams in the city will do his job at a computer input-output station at home: If he wants to see documents from company files, he punches his keyboard and they appear on his display screen. ... To dictate a letter, he punches up his secretary, at her office desk or at her terminal in her home. She'll type it on her keyboard— and

At the consoles of such electronic the text will emerge in the downtown office, to go the power to master information on a scale that profoundly influences the course of science, business, government into the files and into the mail. Or sho(1), sond

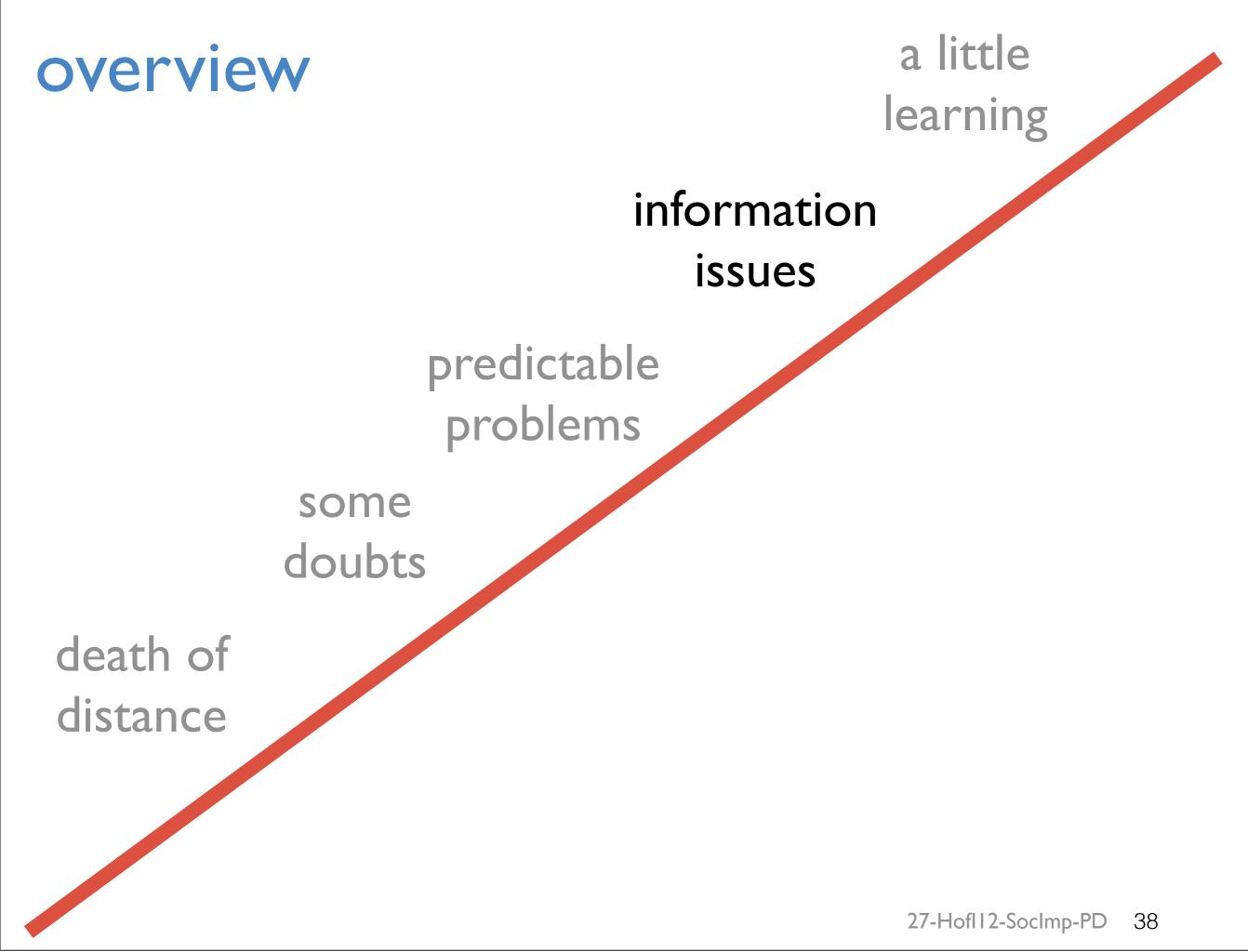
course of science, business, governme into the files and into the mail. Or she'll send

electronic impulses directly to the company

addressed-into their computer....

--National Geographic, 1970

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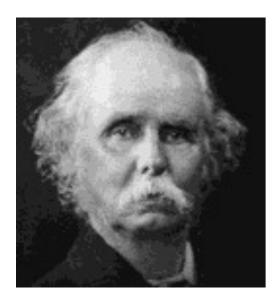




diffuse information

"The accumulation of many large manufacturing establishments in the same district has a tendency to bring together purchasers or their agents from great distances, and thus to cause the institution of a public mart or exchange. **This contributes to diffuse information** relative to the supply of raw materials, and the state of demand for their produce, with which it is necessary manufacturers should be well acquainted. The very circumstance of collecting periodically, at one place, a large number both of those who supply the market and of those who require its produce, tends strongly to check the accidental fluctuations to which a small market is always subject, as well as to render the average of the prices much more uniform."

--Charles Babbage



more than information

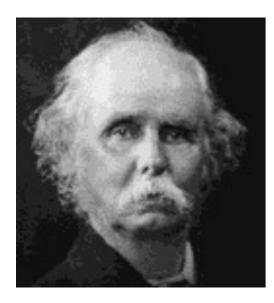
When an industry has thus chosen a locality for itself, it is likely to stay there long: so great are the advantages which people following the same skilled trade get from near neighbourhood to one another. The mysteries of the trade become no mysteries; but are as it were in the air, and children learn many of them unconsciously. Good work is rightly appreciated, inventions and improvements in machinery, in processes and the general organization of the business have their merits promptly discussed: if one man starts a new idea, it is taken up by others and combined with suggestions of their own; and thus it becomes the source of further new ideas. And presently subsidiary trades grow up in the neighbourhood, supplying it with implements and materials, organizing its traffic, and in many ways conducing to the economy of its material.

moving information

information/knowledge management

the HP conundrum

sticky or leaky?

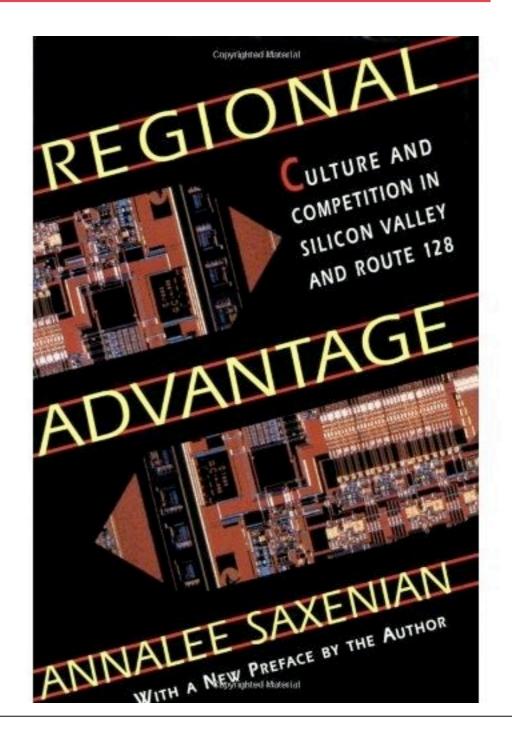


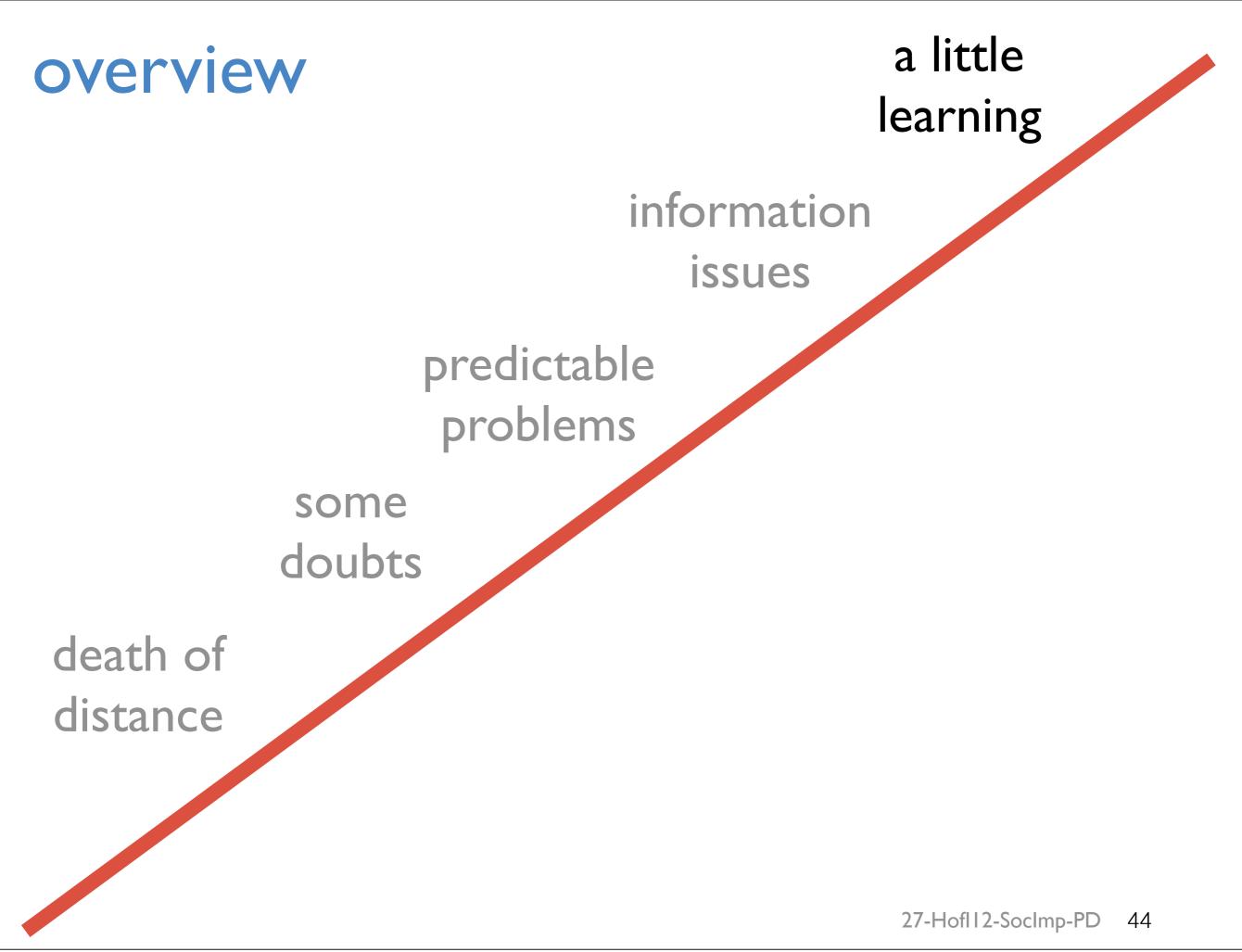
what moves?

goods or people?

Every cheapening of the means of communication ... alters the action of the forces which tend to localize industries. Speaking generally we must say that a lowering of tariffs, or of freights for the transport of goods, tends to make each locality buy more largely from a distance what it requires; and thus tends to concentrate particular industries in special localities: but on the other hand everything that increases people's readiness to migrate from one place to another tends to bring skilled artisans to ply their crafts near to the consumers who will purchase their wares. These two opposing tendencies are well illustrated by the recent history of the English people.

east is east and ...



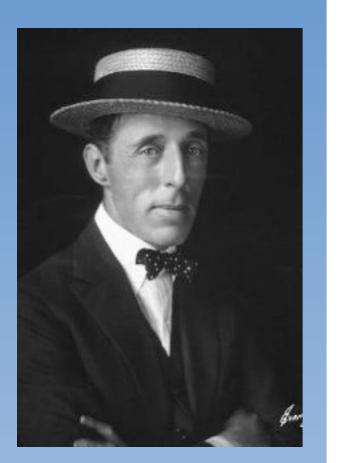


that's why they are here



... but why are we here?

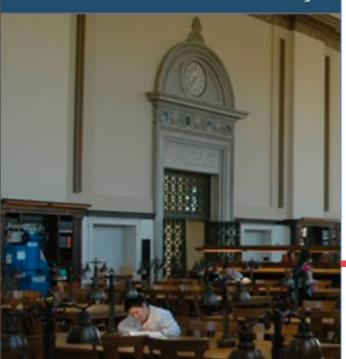
airy visions



"Children in the public schools will be taught practically everything by moving pictures. Certainly they will never be obliged to read history again"

--D.W. Griffith

webcast.berkeley



coming up: social implications

alternatives?

"The people's University of the Air will have a greater student body than all of our universities put together." --RCA, 1932



The Khan Academy is a not-for-profit 501(c)(3) with the mission of providing a world-class education to anyone, anywhere.

We are complementing Salman's ever-growing library with user-paced exercises--developed as an <u>open source project</u>--allowing the Khan Academy to become the free classroom for the World.

UDACITY

'e believe university-level education can be both high quality and low cos achers to hundreds of thousands of students all over the world.



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distant antecedents?

university extension

19c London to the world

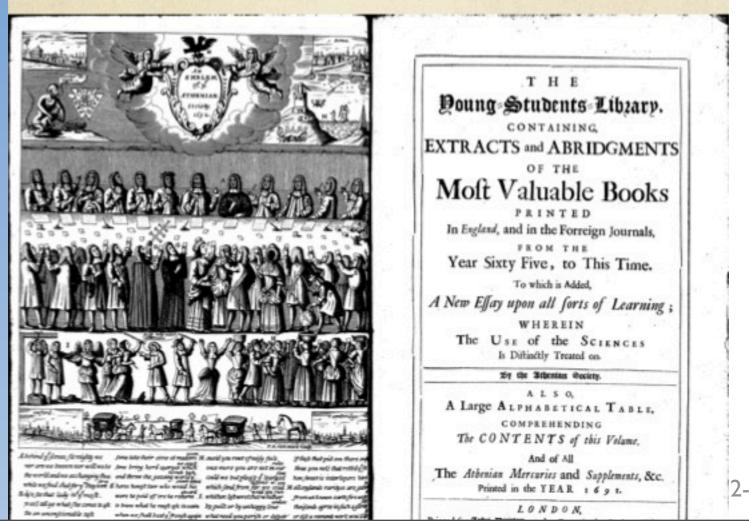
Marshall and the limits to extension

Open University (1969)

early morning television

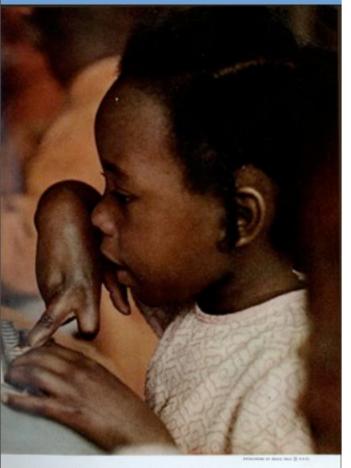
more distant?

Early Modern Textbook?



2-SocImp-PD 49

going digital



Invortes her file, reviews her performance, and picks up with the day's practice problems. Work dow, it grades the assignment and bide a printed "correlevent to explain new concepts. Lamiched an ancperiment by the Federal Government theory pars age, compare interaction has been endowing adopted by the McComb school system as part of its curriculum.

PLATO

(Programmed Logic for Automated Teaching Operations)

"One can predict that in a few more years, millions of schoolchildren will have the personal services of a tutor as wellinformed as Aristotle."

--Patrick Suppes,

Scientific American, 1966.

free market

Search

How it works

Q,

About



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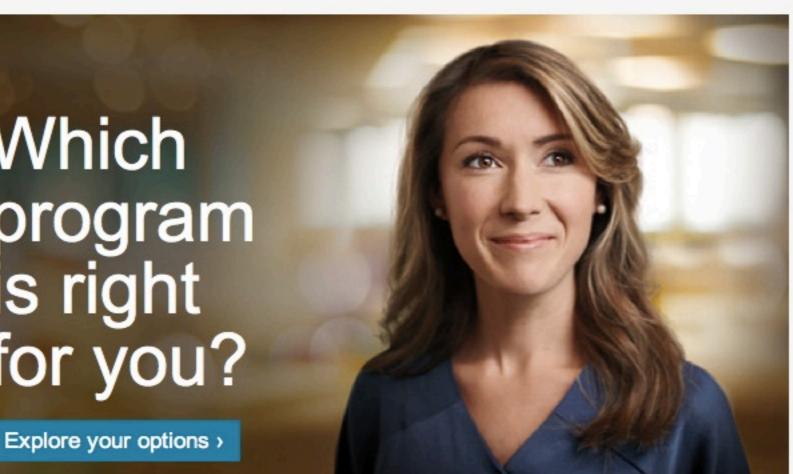
As champions for the working learner, Which program is right for you?

Continuing Education

Alumni

Academics Admissions

Support



and of course ...



Friday, April 20, 2012

10.00

Allama Iqbal Open University Anadolu University Athabasca University Bangladesh Open University China Central Radio & TV University City College of San Francisco Fern University in Hagen Indira Gandhi National Open University Indonesian Open Learning University Instituto Tecnológico Autónomo d México Payame Noor University Korea National Open University Sukhothai Thammathirat Open University The Open University, U.K. Universidad Nacional de Educacio a Distancia University of Maryland University College University of South Africa University of Phoenix Universidad Nacional Autonoma d Mexico Shanghai TV University

"The people's University of the Air will have a greater student body than all of our universities put together." --RCA, 1932

going global

the "mega universities"

(John Daniels)

Indira Gandhi (New Delhi) : 3.5 million

Allama Iqbal (Islamabad) : 1.8 million

Islamic Azad (Tehran) : 1.5 million

Andolou University (Turkey): 1.04 million

Bangladesh National: 800,000

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- * Arizona State University
- * College of Eastern Utah
- * Dixie State College of Utah
- * Johns Hopkins Bloomberg School of Public Health
- * Kaplan Higher Education
- * Massachusetts Institute of Technology
- * Michigan State University
 - * Open Institute of law, Int.
 - * Tufts University
 - * UC Berkeley
- * University of Alaska Fairbanks
- * University of California, Irvine
- * University of Massachusetts Boston
- * University of Michigan
- * University of Notre Dame
- * University of Utah
- * University of Wisconsin- Eau Claire
- * Utah State University
- * Utah Valley State College
- *Weber State University
- *Western Governors University
- *Wheelock College

other alternatives

Cognitive Science C103, 001 - Spring 2012 GEOFFREY D. NUNBERG, PAUL DUGUID

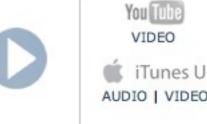
History of Information - This course explores the history of information and associated technologies, uncovering why we think of ours as "the information age." We will select moments in the evolution of production, recording, and storage from the earliest writing systems to the world of Short Message Service (SMS) and blogs. read more

History C192, 001 - Spring 2012 GEOFFREY D. NUNBERG, PAUL DUGUID

History of Information - This course explores the history of information and associated technologies, uncovering why we think of ours as "the information age." We will select moments in the evolution of production, recording, and storage from the earliest writing systems to the world of Short Message Service (SMS) and blogs. read more

Information C103, 001 - Spring 2012 GEOFFREY D. NUNBERG, PAUL DUGUID

History of Information - This course explores the history of information and associated technologies, uncovering why we think of ours as "the information age." We will select moments in the evolution of production, recording, and storage from the earliest writing systems to the world of Short Message Service (SMS) and blogs. read more



more alternatives



the end of the university?

a "stagnant" sector --William Baumol

against stagnation

Alvin Toffler

Peter Drucker

John Chambers

Bill Gates

small planet?



Grandfather: Well, I finally finished my doctoral thesis.



Woman: Way to go, Gramps.



Grandfather: Did my research at Indiana University.

Woman: Indiana?



Grandfather: Yup. IBM took the school's library...and digitized it. So I could access it over the Internet.

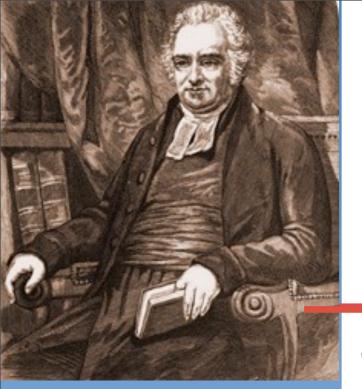
She cocks her <u>ear</u> to take this all in.



Grandfather: You know...It's a great time to be alive.



Tag: IBM. Solutions for a small planet.



Vicesimus Knox 1752-1821

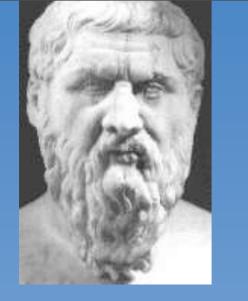
another opinion

"But though books are easily procured, yet, even in **this age of information**, there are thousands in the lower classes that cannot read. Besides, it is a well-known truth, that the same precepts inculcated by a living instructor, adorned by a proper oratory, enforced by a serious and authoritative manner, produce a powerful effect, not to be experienced in solitary retirement."

-- Vicesimus Knox,

Essays Moral and Literary, 1778

27-Hofl12-SocImp-PD 59



Plato 427-347 bce

ancient history?

"Those who acquire [writing] will cease to exercise their memory and become forgetful; they will rely on writing to bring things to their remembrance by external signs instead of on their own internal resources. ...your pupils will have the reputation for [wisdom] without the reality; they will receive a quantity of information without proper instruction, and in consequence be thought very knowledgeable when they are for the most part quite ignorant."

-- Plato, Phaedrus, c. 370 bc

don't lecture me



Rethinking the Way College Students Learn

College students spend a lot of time listening to lectures. But research shows there are better ways to learn. And experts say students need to learn better because the 21st century economy demands more well-educated workers.

limited learning

Among the authors' findings: 32 per cent of the students whom they followed in an average semester did not take any courses that assigned more than 40 pages of reading per week. Half did not take any courses in which more than 20 pages of writing were assigned throughout the entire term. Furthermore, 35 per cent of the students sampled spent five hours or less a week studying alone.

Typical students spent about 16 per cent of their time on academic pursuits, and were "academically engaged," write the authors, less than 30 hours a week. After two years in college, 45 per cent of students showed no significant gains in learning; after four years, 36 per cent showed little change. And the students who did show improvement only logged very modest gains. Students spent 50 per cent less time studying compared with students a few decades ago.

> --Richard Arum, Josipa Roksa, Academically Adrift: Limited Learning on College Campuses, 2010

forgotten factors?

kinds of distance

geographical social

disciplines or discipline?

Stephen Cameron, "The nonequivalence of high school equivalents," 1993

signalling



January 8, 2012

'Badges' Earned Online Pose Challenge to Traditional College Diplomas



Photo illustration by Bob McGrath for The Chronicle Enlarge Image

By Jeffrey R. Young

The spread of a seemingly playful alternative to traditional diplomas, inspired by Boy Scout achievement patches and video-game powerups, suggests that the standard certification system no longer works in today's fast-changing job market.

Educational upstarts across the Web are adopting systems of "badges" to certify skills and abilities. If scouting focuses on outdoorsy skills like tying knots, these badges denote

areas employers might look for, like mentorship or digital video editing. Many of the new digital badges are easy to attain—intentionally so—to keep students motivated, while others signal mastery of fine-grained skills that are not formally recognized in a traditional classroom.

At the free online-education provider Khan Academy, for instance, students get a "Great Listener" badge for watching 30 minutes of videos from its collection of thousands of short educational clips. With enough of those badges, paired with badges earned for passing standardized tests administered on the site, users can earn the distinction of "Master of Algebra" or other "Challenge



Nullius in Verba?

going closed?

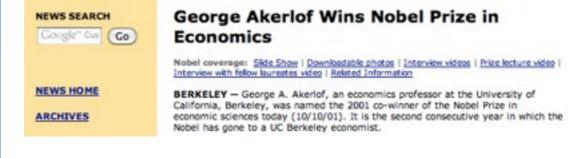
Let us consider the matter in this way: If the wise man or any other man wants to distinguish the true physician from the false, how will he proceed?

.... He will consider whether what [the physician] says is true, and whether what he does is right, in relation to health and disease?

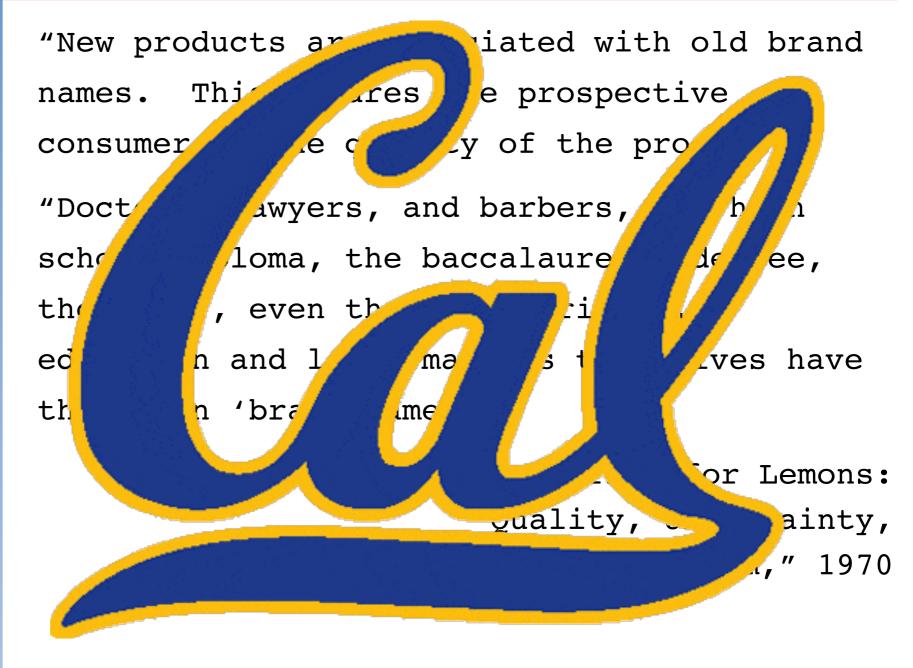
... But can any one attain the knowledge of either unless he have a knowledge of medicine?

... No one at all, it would seem, except the physician can have this knowledge; and therefore not the wise man; he would have to be a physician as well as a wise man. --Plato, Charmides

Campus News > Nobel Prize



still local?



Berkeley

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before you graduate

Week 15

24 Apr: Social Implications of the Internet II

Required reading:

- Boyd, Danah. (Forthcoming). "White Flight in Networked Publics? How Race and Class Shaped American Teen Engagement with MySpace and Facebook." In Digital Race Anthology (Eds. Lisa Nakamura and Peter Chow-White). Routledge.
- Smith, Zadie. "Generation Why," (review of The Social Network and You Are Not a Gadget, by Jason Lanier) The New York Review of Books, Nov. 25, 2010.
- Sunstein, Cass R. 2007. "The Polarization of Extremes." The Chronicle Review, Dec. 14.

26 Apr: Wrap

boyd writes:

In some senses, the division in the perception and use of MySpace and Facebook seems obvious given that we know that online environments are a reflection of everyday life. Yet, the fact that such statements are controversial highlights a widespread technoutopian belief that the internet will once and for all eradicate inequality and social divisions.

In a different contexts, Zadie Smith writes:

Shouldn't we struggle against Facebook? Everything in it is reduced to the size of its founder. Blue, because it turns out Zuckerberg is red-green color-blind. "Blue is the richest color for me-I can see all of blue." Poking, because that's what shy boys do to girls they are scared to talk to. Preoccupied with personal trivia, because Mark Zuckerberg thinks the exchange of personal trivia is what "friendship" is. A Mark Zuckerberg Production indeed! We were going to live online. It was going to be extraordinary. Yet what kind of living is this? Step back from your Facebook Wall for a moment: Doesn't it, suddenly, look a little ridiculous? Your life in this format?

On the whole, would you say that your social networking experience is more like an extension of your everyday life, as boyd suggests, or that it's a bleached or distorted version of it?