UC Berkeley's Campanile celebrates its 100th birthday

January 27, 2015 7:00 am by Guest contributor



JC Berkeley's Campanile, which is 100 years' old this year, dominates the Berkeley skyline. Photo: Daniel Parks

Social Implications - I

mysteries of the region

History of Information

April 22, 2014



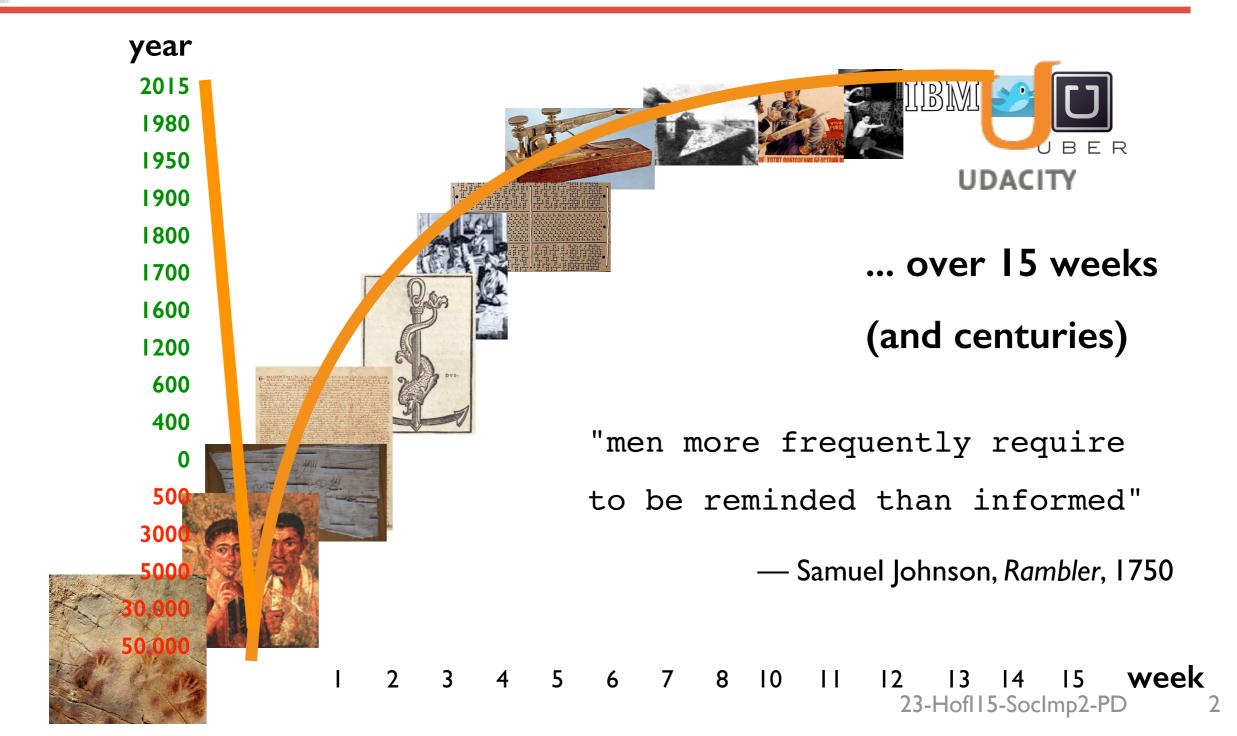








looking forward & back



"Staffordshire makes many kinds of pottery, all the materials of which are imported from a long distance; but she has cheap coal and excellent clay for making the heavy "seggars" or boxes in which the pottery is placed while being fired." — Marshall

your look forward and back

assignment: Marshall and the importance of place

manuscript — papyrus parchment, silk, paper (Pipa Saunders)

coffee house

print — Venice and quality (Gavin Li); China & Korea and the state (Alice Park)

pottery, Wedgwood — "patronage of court" (Ester Shchemelinin)

Royal Society

inoculation

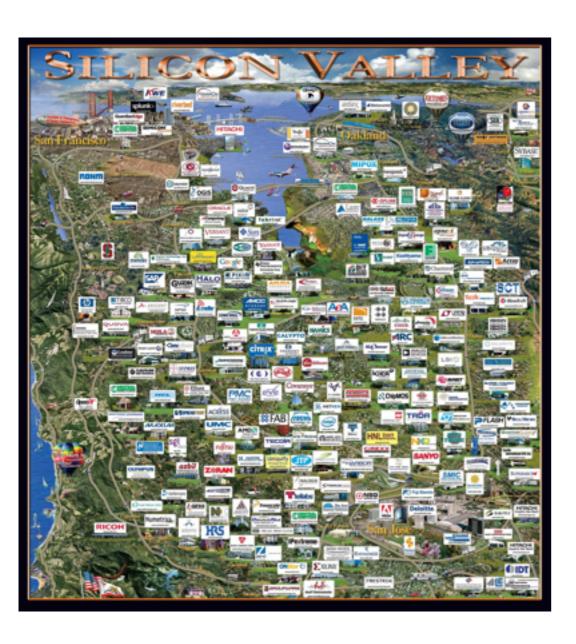
telegraph — IP/government support (Meeri Shin) colonization (Jae Hun)

UNIX — (Yurika Jacobsson)

CERN — (Jonathan Anstett)



closer to home



Yurika Jacobsson

Laura Uy

Nathaniel Valdez

Shannon Chu

Celeste Boureille,

Raphael Soto

Chuhan Zhang

If you choose this assignment, you must work in groups of 2 or 3; send your joint findings to Nikolai or to Paul as a pdf by Tuesday at 6; and come to class prepared not only to discuss your findings, but also if called upon to present your findings to the class.

Thursday assignment

Eric Schmidt of Google writes, "We know where you are. We know where you've been. We can more or less know what you're thinking about." By analysis of the ads and links that Google offers you, explore what Google "knows" about you and to what extent it is possible to spoof Google and change its "perception" without losing your identity or Google's utility. Show whether your findings endorse or challenge Schmidt's claim or Zuboff's response.

be cooperative be inventive don't be dull



overview

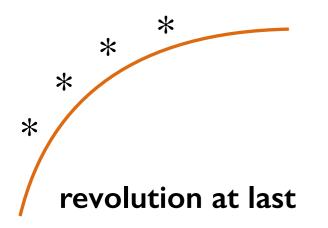
a little learning

information issues

local problems

theory & data

revolution at last!



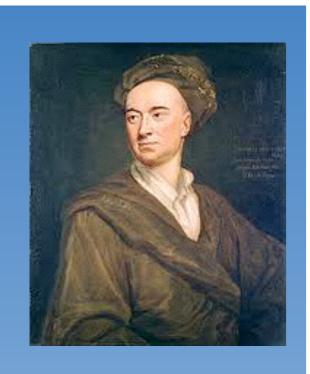
"the revolution begins at last"

"This has been predicted before ..."





300 years (or 22 classes)



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

1728



Claude Chappe (1763-1805)

a single point



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

Chapitre 1º Exposition.

Parsen ala frite detravano longe a panillar, rouver, enfin, un art nonveau regard comme imposible beauting de Sarane, une noute unes elle ga fouris ant les offore de Chomme, les distances vous disposition les Extremités du Monde de rapproches. Je Crois veroir communiques le resultan de men trassup ules archines, où lindustrie françoise, euregistre fes

to it Sex Decouvertes, et Publier mes rues et moyens prenant un Brevet Dinvention pour authantiques mes want as we decementer visultats .

Condiire les Ballons Dans l'air a été proclame possible; Car on n'e pentale consideres laction datames. we l'air comme un moyen de progression Suffisant; (in effet, eriques asu des Ballons Spheriques Chris impossible les efforts des Saran navaient par emore tente d'autre unes. Presque toutre les antrès pouraiens conduire à resultat les formes on Cylindre, ou Cone et De Mipsoide mime, es formes Composer à double where; Mais eller offren des avantages plus on oise grandes at font priferer lune al cute. Je Vais Considerer, in landens former Coniques et

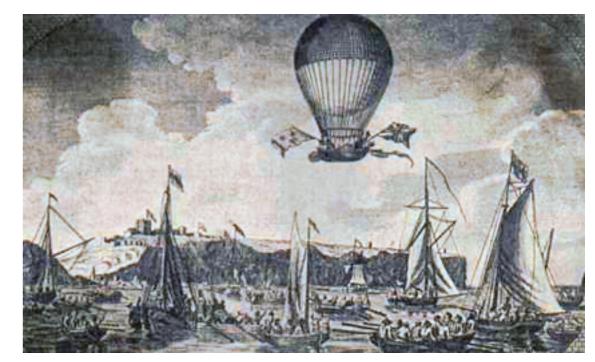
I avair adopte la tre il y a trois ans, mais felai Cortificar de demande d'un Brevet D' Secretion De cing me diluri à M. Duperson (fine Lie)

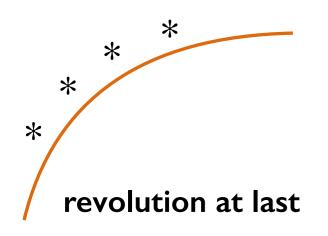
Du la Progrès de M. Dagresson (famillais) aviatia he Bur Lyche, Immerie a Rice, Rom De Bu X 200, dans laquelle il sepose que, desirant jouir des droite de propriété tempera test gove d'industrie, il demande in Braid D'Elevantion. be cing our , perhabadan but he housetter,

disappearance

"Parvenu à la suite de travaux longs et pénibles à trouver, enfin, un art nouveau regardé comme impossible par beaucoup des Savans, une route nouvelle va fournir devant les efforts de l'homme, les distances vont disparaître et les extremités du Monde se

rapprocher."



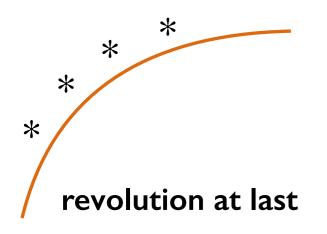


one neighborhood

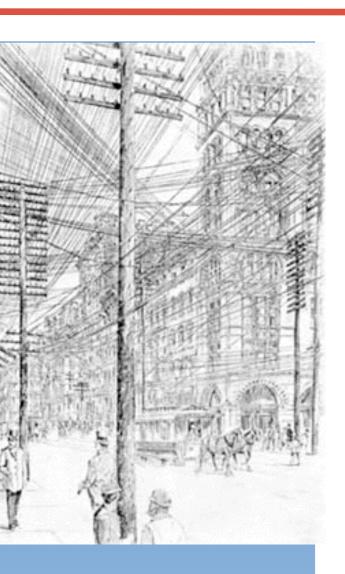


"It is not visionary to suppose that it would not be long ere the whole surface of this country would be channelled for those nerves which are to diffuse, with the speed of thought, a knowledge of all that is occurring throughout the land; making one neighborhood of the while country."

— Morse to Congress, 1838



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



still going

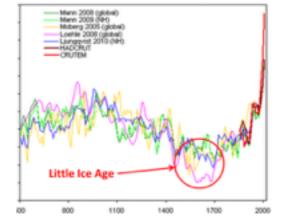
sea to shining sea

"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

"The arrival of Europeans in the Americas also led to a large decline in human numbers. Regional population estimates sum to a total of 54 million people in the Americas in 1492, with recent population modelling estimates of 61 million people. Numbers rapidly declined to a minimum of about six million people by 1650 via exposure to diseases carried by Europeans, plus war, enslavement and famine. The accompanying near cessation of farming and reduction in fire use resulted in the regeneration of over 50 million hectares of forest, woody savanna and grassland

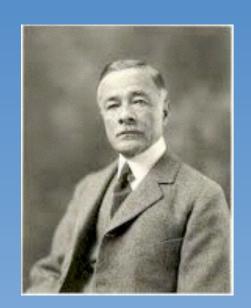




assessing progress?



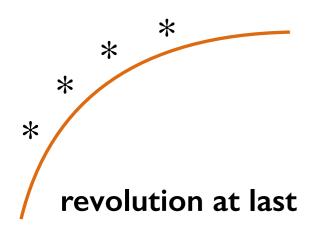




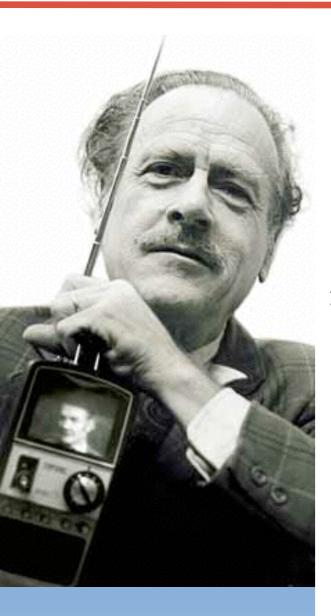
once again, one voice

"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"

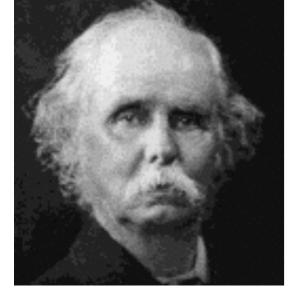
"Exaggerated ideas about the potential of the Internet are nothing new. A prime example is Frances Cairncross' best-selling 1997 book "The Death of Distance."

—Lenzo, Will the Revolution be Tweeted?

this time it's different

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

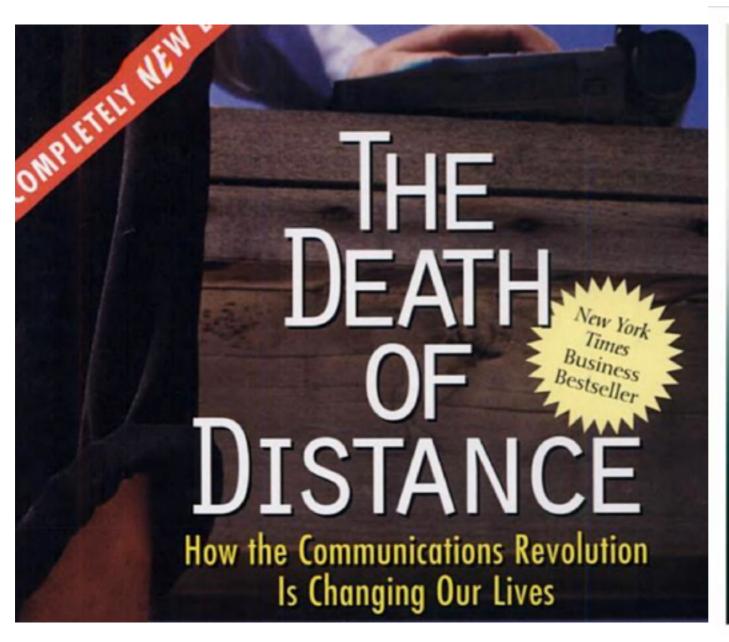


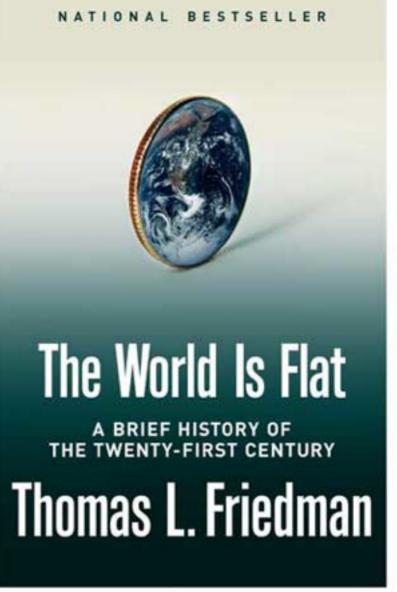


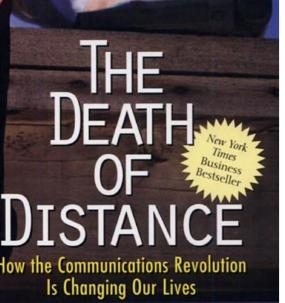




when was that?









trendspotting

- . The Death of Distance. Distance will no longer decide the cost of 6. communicating electronically. Indeed, once investment has been made in a communications network, in buying a computer or telephone, or in setting up a Web site, the additional cost of sending 7. or receiving an extra piece of information will be virtually zero.
- screen-based activities wherever they can find the best bargain o skills and productivity. Developing countries will increasingly perform on-line services including monitoring security screens, 8. 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.
- Increased Mobility. Every form of communication will be available for mobile or remote use.
- More Customized Networks. The huge capacity of networks will 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.

- 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.
- Increased Value of Brand. Companies will want ways to push 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.
- 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.



overview

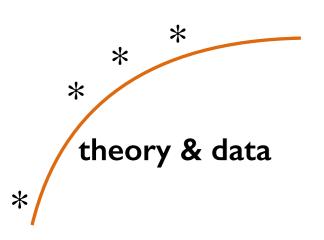
a little learning

information issues

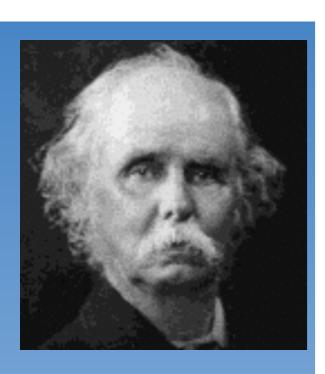
local problems

theory & data

revolution at last



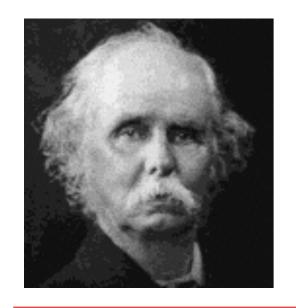
principled explanation?



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."

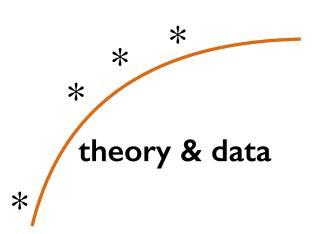
--Alfred Marshall, Principles of Economics, 1920



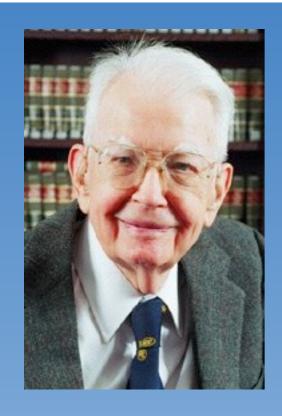
what moves?

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 ...



opposing tendencies?



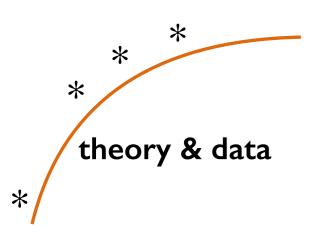
Ronald Coase 1910 - 2013

economic explanations

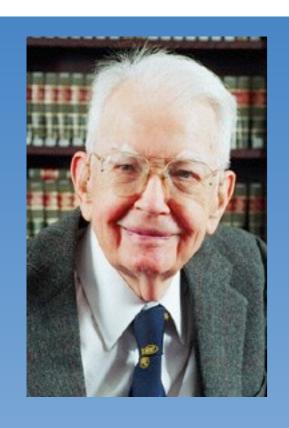
make or buy hierarchy or market

decided by

transaction costs vs management costs



the nature of the firm?



"Changes like the telephone and the telegraph which tend to reduce the cost of organising spatially will tend to increase the size of the firm. All changes which improve managerial technique will tend to increase the size of the firm."

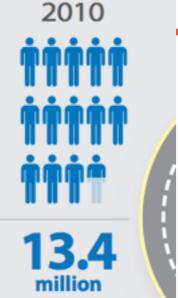
--Ronald Coase,
"The Nature of the Firm," 1937

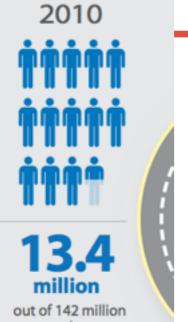
Work at Home Jobs Becoming More Common

By: Chad Brooks, BusinessNewsDaily Contributor

In 2010, 13.4 million people worked at least one day at home per weekan increase of over 4 million people (35 percent) in the last decade.







here or there?

percentage of home workers in population

1980 1990 2005 1999 2010 0.013 0.01 0.014 0.034 0.039 0.043

out of 132 million workers workers

Stanford Study: Letting Employees Work from Home Raises Productivity To Raise Productivity, Let **More Employees Work**

by Nicholas Bloom

more productive.

FROM THE JANUARY-FEBRUARY 2014 ISSUE

from Home



he study: Nicholas Bloom and graduate student James Liang, who is also a cofounder of the Chinese travel website Ctrip, gave the staff at Ctrip's call center the opportunity to volunteer to work from home for nine months. Half the volunteers were allowed to telecommute; the rest remained in the office as a control group. Survey responses and performance data collected at the conclusion of the study revealed that, in comparison with the employees who came into the office, the at-home workers were not only happier and less likely to quit but also

Will Yahoo Increase Productivity by Banning People From Working at Home?

By CLAIRE CAIN MILLER



When Marissa Mayer swooped into Yahoo last year, she tried to make it a more desirable place to work, adding perks like free food and smartphones.

M GOOGLE+ SAVE

E-MAIL

But for some employees, that spirit changed last week, when the company issued a new policy requiring all employees to report to work at Yahoo offices and not remotely, according to a report published by All Things D, a tech blog. In a memo, the company said it wanted to increase collaboration



'RESHORING': WILL U.S. MANUFACTURING MAKE A COMEBACK?



Call it "reshoring," or "insourcing" if you prefer. By any name, a significant movement of manufacturing back to U.S. shores is exactly what our economy needs. Factory movement overseas has opened a hole in the American job market that nothing else can truly fill, a point stressed in blue-collar populist appeals from both political parties.

Financial Director

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Where am I? > Home > News > Management

Homeward bound: Why companies are 'reshoring' back to the UK

Melanie Stern finds out why re-shoring is a pragmatic choice for Britain's business community

Share 🥯 Digg 📗 Tweet

here or there?



Reshoring of Japanese manufacturing - Nomura

Mon, Apr 06 2015, 22:36 GMT | FXStreet



Key Quotes

chain."



reshoring production back to Japan.



FXStreet (Bali) - Minoru Nogimori, Japanese Economist at

Nomura, notes that Japanese companies are increasingly

"With Abenomics boosting their cost competiveness, Japane

production back to Japan, especially the manufacture of high

"Consumer electronics manufacturers are ramping up produ devices and we expect this trend to continue. The weak yen exports, which we expect to continue growing with knock-on









Reshoring and Total Cost of Ownership

BY HARRY MOSER AND MILLAR KELLEY ON MAR 20, 2015



Harry Moser

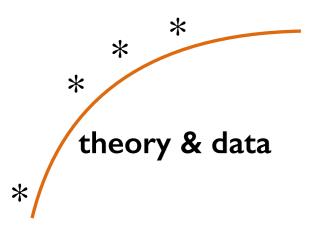






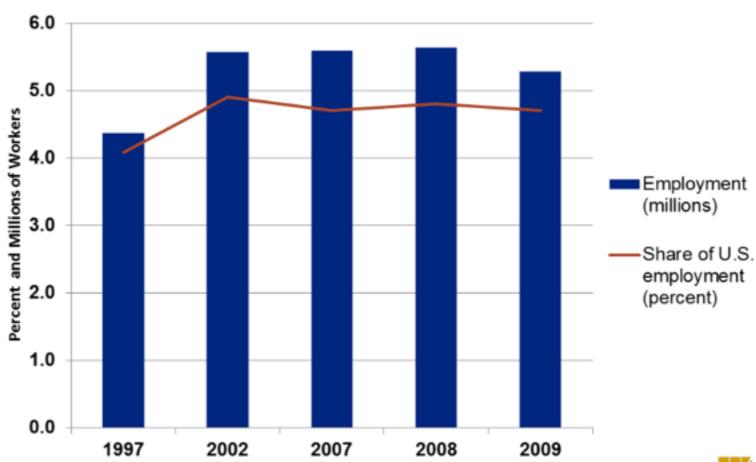
Reshoring is the most direct solution for many of



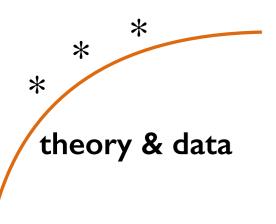


inside out?

Insourcing: Share of U.S employment by foreign-owned companies







paradox of the laptop?







overview

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revolution at last



Yurica Jacobsson: a "localized industry" (IV.X.1) ... [the advantages] "people following the same skilled trade get from near neighborhood to another" (IV.X.7).

contending forces — on the one hand

Laura Uy: Another similar example would be Silicon Valley and its key role in the rise of computers in the 1970s. The relatively concentrated location of silicon chip manufacturers, scientists, University researchers, and venture capitalists allowed for the intersection that was central to the development of the modern computer.

Nathaniel Valdez: Silicon Valley's proximity to top universities like Stanford and the UC Berkeley created a region invested in elite talent where employers could find a "good choice of workers" with "special skills which they require[d]," (Marshall). Its huge tracks of cheap flat land, unlike cities on the east coast, provided an expansive space where hundreds of tech companies could develop freely without the typical bureaucratic roadblocks of development in larger cities.



contending forces — on the other

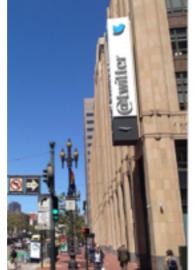
Shannon Chu: the forces that localized people became redundant.

Celeste Boureille: the globalization of place as it relates to information.

Raphael Soto: "As time passes, Marshall's argument becomes less accurate"

Chuhan Zhang" "Apple '...kept on the right track for satisfying the needs of purchasers far away; and they created new wants among consumers' (Marshall, IV.X.1) but the notion that 'Consequently shops which deal in expensive and choice objects tend to congregate together' (Marshall, IV.X.12) might be challenged by the fact that Apple product can be purchased almost anywhere in the world."





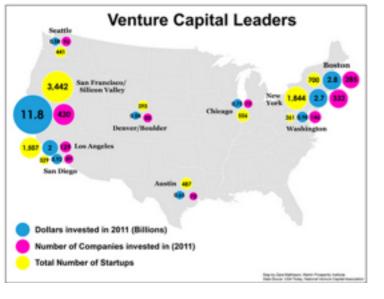


more complications

if distance is dead ...



... why are they here?



at the centre ...

... of cheapening communication

"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



23-Hofl I 5-SocImp2-PD



Viadeo Expands Global Footprint to San Francisco

Company Brings Rich Professional Social Networking Platform to the U.S. Marketplace, Plans Collaboration with Developers and Technology Leaders

March 08, 2011 11:00 AM Eastern Standard Time

SAN FRANCISCO--(BUSINESS WIRE)--Vladeo, the number one social network for professionals in Europe, China and South America, today announced the opening of its first U.S. office based in San Francisco. The company, headquartered in Paris with 250 employees in offices worldwide, has officially opened its operations in San Francisco's financial district. Viadeo SF will be led by Dan Serfaty, cofounder and CEO, who will oversee the future development of Viadeo and its platform as well as promote collaboration with developers and leading technology companies in the San Francisco Bay Area.

here or there?

"Employers are apt to resort to any place where they are likely to find a good choice of workers with the special skill which they require; while men seeking employment naturally go to places where there are many employers who need such skill as theirs."

— Marshall



means of communication?





- 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 experiences, and pursuits, rather than proximity, will bind to communities together.
- 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.

- 16. 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.
- The Decline of National Authority. Governments will find national legislation and censorship inadequate for regulating the

playing 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 educated workers. Managerial and professional jobs will be less vulnerable 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 entertainment.



WE'RE NO. 1

Forbes: San Francisco Is the Absolute Worst City for Rei

Thursday, April 16, 2015, by Lamar Anderson

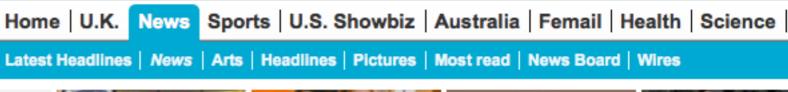


Photo via Markus Spiering

Today Forbes released its ranking of the best and worst markets for renters, and whaddaya know, three of the top ten are in the Bay Area. San Francisco comes in first (by which we mean dead last), with a 12.8 percent increase in average monthly rent over the prior year (yeah, that sounds about right), trailed by Oakland at No. 2 and San Jose at No. 3. Our perennial rival in unlivability, Manhattan, comes in fourth, followed by Los Angeles. Because Forbes looked at metropolitan statistical areas (MSAs), San Francisco's data includes San Mateo and Redwood City, whose presence no doubt lowered our metro's average monthly rent, which sat at a combined \$2,802 at the end of the fourth quarter of 2014.













Widow says Southwest crew



FBI clears Tulsa County Sheriff's



EXCLUSIVE: Double wife

Lucas strikes back - against his neighbors Director to build hundreds of affordable homes in millionaire neighborhood after they blocked him from building a studio

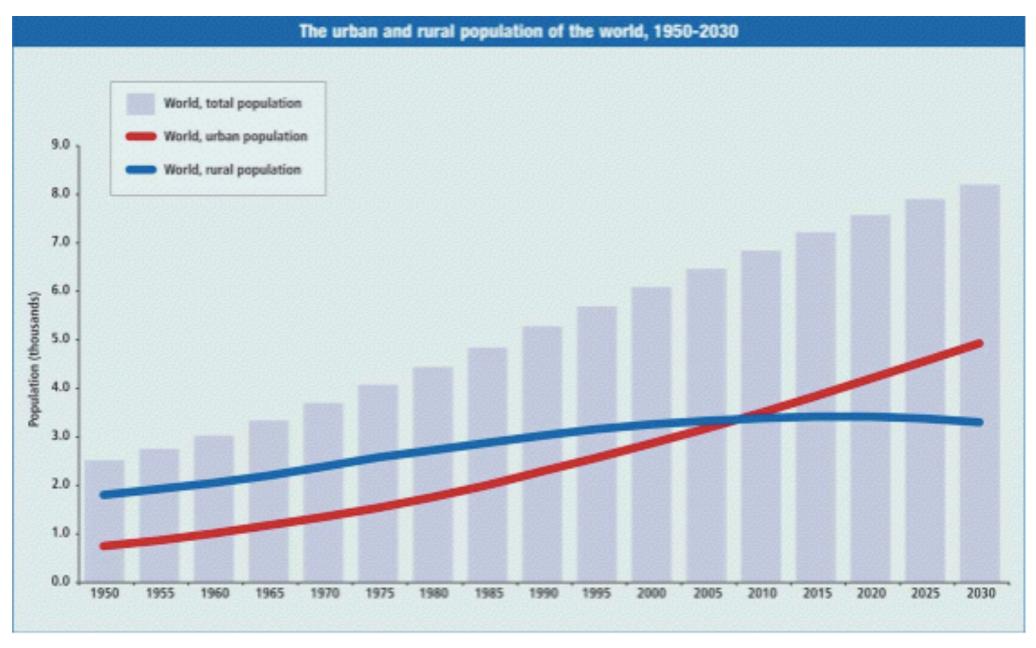
- Neighbors blocked Lucas' plans to build a film studio in 2012
- Now he plans to erect a housing complex on land off Lucas Valley Road
- The community would provide housing to 224 low-income families

 WOLLII.

— Marshall

)

crowding in





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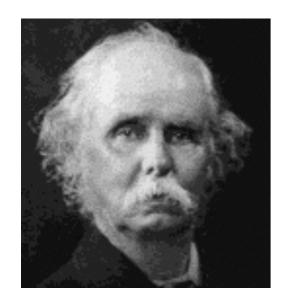
revolution at last



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



"Works done and stored in these places are also protected and 'appreciated'" — Jiachen Jiang

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."



working knowledge ...



... moves in mysterious ways the "sticky" or "leaky" problem

"If only HP Knew what HP knows ..."

— Lew Platt, CEO Hewlett-Packard



trade secrets and enticement du Pont's battles

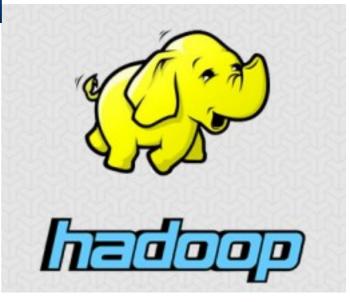
—Catherine Fisk, Working Knowledge, 2009



FLOSSing

from sticky to leaky IP







a different distance

"But we also know that in 'the social' there is a loading of the dice that produces a probability that the collective associations and translations that result in effective power in these technology networks will continue to afford one sex domination over the other—unless it is somehow interrupted through an active politics of sex/gender."

—Cynthia Cockburn, "Circuit of Technology," 1994



Screw leaning in. It's time to slam the door in Silicon Valley's face

Jess Zimmerman

Opting out of sexist workplaces is straight out of the universe of boycotts and strikes. It acknowledges that this is a political problem, not one to be solved by HR





My only regret is not leaving or being fired sooner. What I endured as an employee of GitHub was unacceptable and went unnoticed by most.

the public sphere?

THREE CHEERS FOR ELLEN PAO

by Randy Shaw on March 27, 2015

Share















Ellen Pao leaving the courthouse

(Editor's Note: A jury ruled Friday afternoon against Ellen Pao on all her damage claims against Kleiner Perkins)

Jury verdicts can be a crapshoot, but to my mind Ellen Pao has already won. She has done more to expose Silicon Valley/ tech-world sexism than any prior single act, making Pao an unlikely agent of social change.

Pao's lawsuit has irrevocably changed the tech landscape. Not because it will transform the sexist, frat-boy culture of the tech world. Or because it will convince male venture capitalists to finance women entrepreneurs.

Dan'e lawerit ie traneformativa hacarea avarv



s a woman venture capitalist since 1999, I initially read the Newsweek article "What Silicon Valley

Thinks of Women" with great interest, and then with

increasing sadness.



Why We've Decided to Organize







Amazon Mechanical Turk: The Digital Sweatshop

Unbeknownst to most users, our technological revolution depends in large part on the cheap-labor microtasking of Amazon Mechanical Turk and other tech employers.

By Ellen Cushing, from East Bay Express January/February 2013



BUSINESS Insider

Tech Finance **Politics**

Strategy

BI INTELLIGENCE

Life



TECH

more distance San Francisco

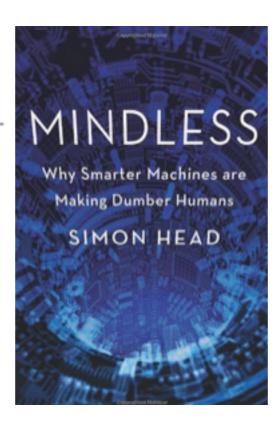
Google's Bus Drivers Say They Work Long **Hours For Little Pay**

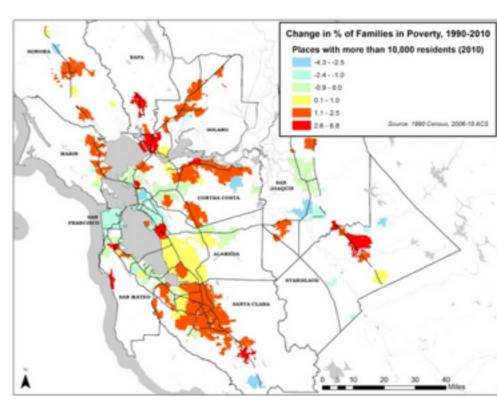


in Share

MADELINE STONE

SEP. 30, 2014, 1:41 PM





Polis, Changing Percentage of Families in Poverty, 1990-2010

Research Brief

UC Berkeley Center for Labor Research and Education April 2015

The High Public Cost of Low Wages

Poverty-Level Wages Cost U.S. Taxpayers \$152.8 Billion Each Year in Public Support for Working Families

by Ken Jacobs, Ian Perry, and Jenifer MacGillvary

Even as the economy has at last begun to expand at a more rapid pace, growth in wages and benefits for most American workers has continued its decades-long stagnation. Real hourly wages of the median American worker were just 5 percent higher in 2013 than they were in 1979, while the wages of the bottom decile of earners were 5 percent lower in 2013 than in 1979. Trends since the early 2000s are even more pronounced. Inflation-adjusted wage growth from 2003 to 2013 was either flat or negative for the entire bottom 70 percent of the wage distribution. Compounding the problem of stagnating wages is the decline in employer-provided health insurance, with the share of non-elderly Americans receiving insurance from an employer falling from 67 percent in 2003 to 58.4 percent in 2013.

Stagnating wages and decreased benefits are a problem not only for low-wage workers who increasingly cannot make ends meet, but also for the federal government as well as the 50 state governments that finance the public assistance programs many of these workers and their families turn to. Nearly three-quarters (73 percent) of enrollees in America's major public support programs are members of working families; the taxpayers bear a significant portion of the hidden costs of low-wage work in America.

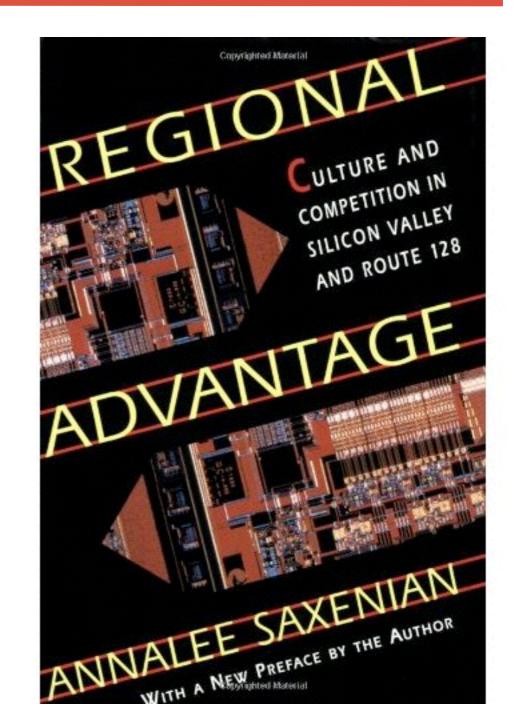
This is the first report to examine the cost to the 50 states of public assistance programs for working families. We examine working families' utilization of the health care programs Medicaid and Children's Health Insurance Program (CHIP), as well as their enrollment in the basic household income assistance program Temporary Aid to Needy Families (TANF). Both of these programs operate with shared funding from the federal government and the states, and in this report we also examine the costs to the federal government of Medicaid/CHIP and TANF, as well as the Earned Income Tax Credit (EITC) and the food stamps program

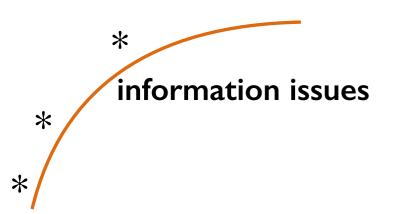
local insight



local "mysteries"

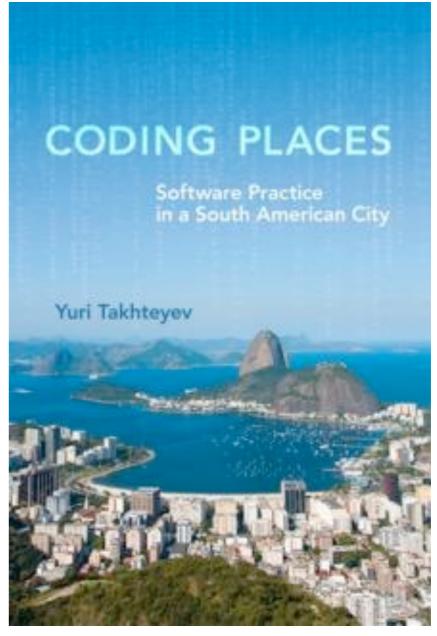
east vs west



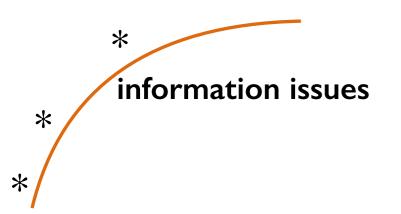


distant mysteries

north v south

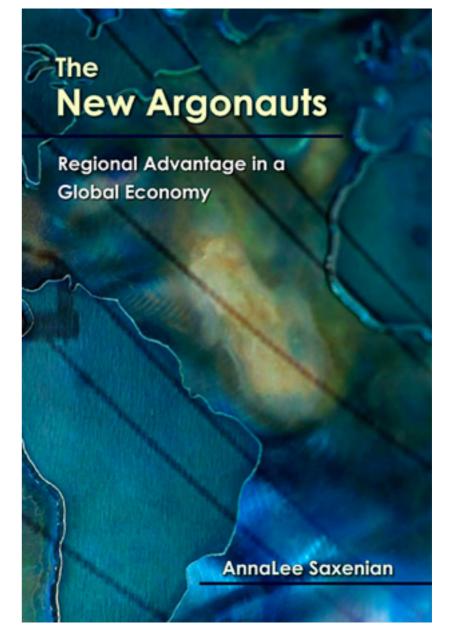


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spreading the word

... and going global





overview

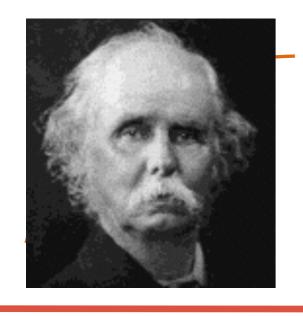
a little learning

information issues

local problems

theory & data

revolution at last



that's why they are there

... but why are we here?



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FIVE DOLLAR MOVIES PROPHESIED

D. W. Griffith Says They Are Sure to Come with the Remarkable Advance in Film Productions.

* *

birth of an idea?

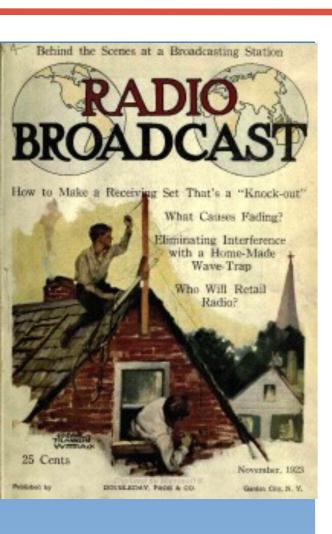


"The time will come, and in less than ten years, when children in the public schools will be taught practically everything by moving pictures. Certainly they will never be obliged to read history again ... everything except the three Rs, the arts, and probably the mental sciences can be taught this way--physiology, chemistry, biology, botany, physics, and history in all its branches."

-- D.W. Griffith, New York Times, 1915



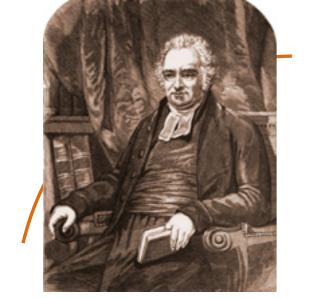
alternatives?



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

--Alfred N Goldsmith, RCA,

Radio Broadcast 1922



APOLOGETICAL REMARKS ON THE FREEDOM USED IN CENSURING THE UNIVERSITIES.

Incedis per ignes
Suppositos cineri doloso.

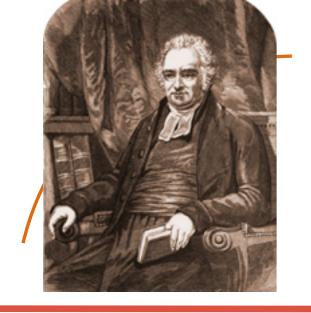
You tread on dangerous ground.

Hor.

decline and fall

"At a time when books were scarce, and men who knew how to make a proper use of them still more uncommon, it became expedient ... [to] assemble in one place, where celebrated books and tutors were collected, whence advantage might be derived to a greater number of students from fewer instructors ...

"Time ... relaxed the rigid scruples ... the world began to lose its reverence ..."

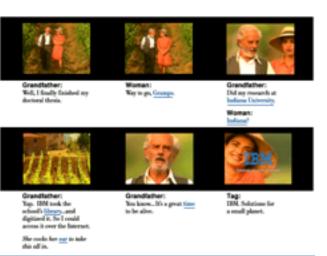


second thoughts?

"... as books are now multiplied, and men able to afford instruction dispersed all over the kingdom, it is evident that the principal cause of establishing universities in an age when both books and instructors were scarce, no longer subsists. Let them therefore be reformed, and rendered really useful to the community or let them be deserted."

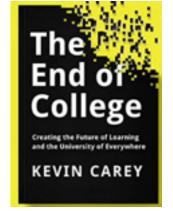


desertion?









here comes the MOOC

"a budding revolution in global online higher education"

— Thomas Friedman, New York Times 2011

sound familiar?

"The story of higher education's future is a tale of ancient institutions in their last days of decadence, creating the seeds of a new world to come," he writes. If he is right, higher education will be transformed into a different kind of learning experience that is cheaper, better, more personalized and more useful."

— Joe Nocera (reviewing The End of College), New York Times 2015



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

big data

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 Univer
- * Indonesian Open Learning University
- * Instituto Tecnológico Autónomo de México
- * Payame Noor University
- * Korea National Open University
- * Sukhothai Thammathirat Open University
- *The Open University, U.K.
- * Universidad Nacional de Educacion a Distancia
- * University of Maryland University College
- * University of South Africa
- * University of Phoenix
- * Universidad Nacional Autonoma de Mexico
- Shanghai TV University

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



forgotten factors?

institutions vs technologies

libraries vs ebooks

disciplines or discipline?

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

kinds of distance

geographical

social

signalling



signalling

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 be 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.

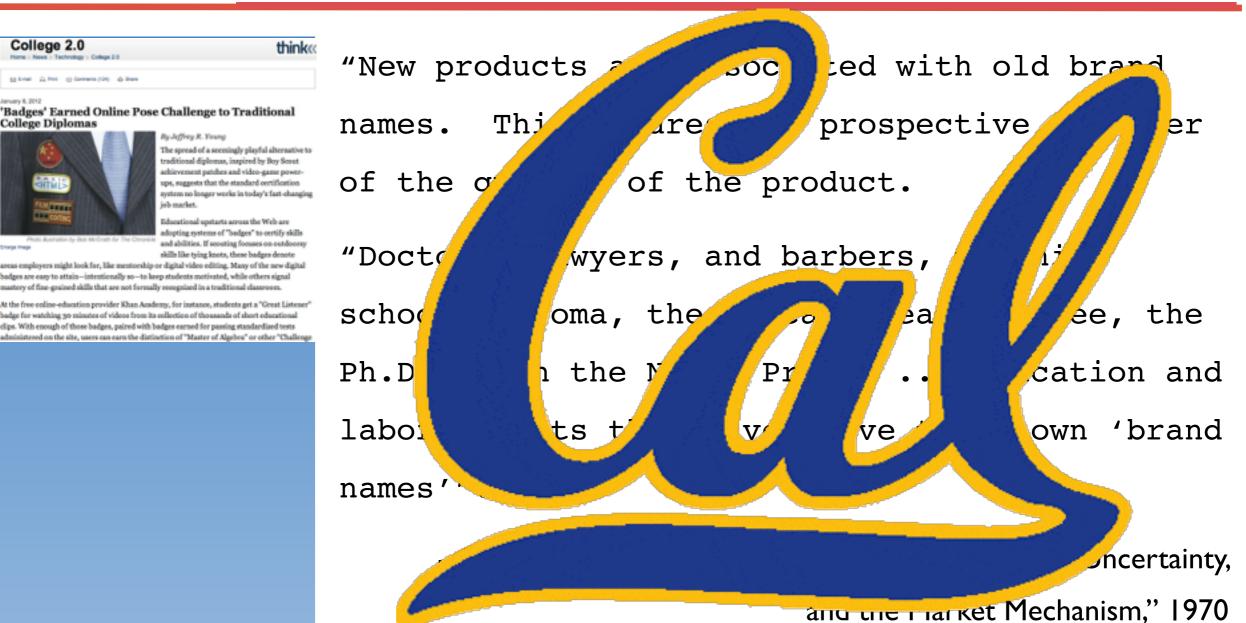
--Plato, Charmides

"the purchaser if not himself a skillful judge ... must pay some person, in the shape of an additional money price, who has the skill to distinguish, and integrity to furnish, articles of the quality agreed on."

— Babbage

"degrees ... gave considerable credit in the living world" -Knox

badge of honor





other alternatives

Information C103, 001 - Spring 2013 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



before you graduate

23 Apr: Storage and Search

Required Reading

Döpfner, Matthias. 2014. "Why We Fear Google"

Frankfurter Allgemeine, April 17

Schmidt. Eric. 2014. "A Chance for Growth № ." Frankfurter Allgemeine, April 4.

Zuboff, Shoshana. 2014. "Dark Google." & Frankfurter Allgemeine, April 30



for Thursday

If you choose this assignment, you must work in groups of 2 or 3; send your joint findings to Nikolai or to Paul as a pdf by **Tuesday at 6**; and come to class prepared not only to discuss your findings, but also if called upon to present your findings to the class.

Eric Schmidt of Google writes, "We know where you are. We know where you've been. We can more or less know what you're thinking about." By analysis of the ads and links that Google offers you, explore what Google "knows" about you and to what extent it is possible to spoof Google and change its "perception" without losing your identity or Google's utility. Show whether your findings endorse or challenge Schmidt's claim or Zuboff's response.