Lecture 23: CS 5306 / INFO 5306: Crowdsourcing and Human Computation

Types of Crowdsourcing

- Overt
 - Collecting (Amazon Reviews)
 - Labor Markets (Amazon Mechanical Turk)
 - Collaborative Decisions (Prediction Markets)
 - Collaborative Creation (Wikipedia)
 - Smartest in the Crowd (Contests)
 - Games with a Purpose
- Covert / Crowd Mining
 - Web page linkage, search logs, social media, collaborative filtering
- Dark side of crowdsourcing and human computation
- Collective intelligence in animals

Reading for next time

Bruce Schneier's Afterword to Cory Doctorow's Little Brother
 https://www.jus.uio.no/sisu/little_brother.cory_doctorow/afterword_1.html

Dark side of crowdsourcing and human computation

- Worker experience
- Undermining crowds
- Using crowds for nefarious purposes
- Crowd failures

Dark side of crowdsourcing and human computation

- Worker experience
- Undermining crowds
- Using crowds for nefarious purposes
- Crowd failures

Using crowds for nefarious purposes

- With worker knowledge
- Without worker knowledge



suggest a link	defeat censorware	rss archives	t-shirts	digital emporium
podcast feed	<u>mark</u> <u>cory</u> <u>david</u>	<u>xeni</u> <u>john</u>		

Search Boing Boing















TUESDAY, JANUARY 27, 2004

Solving and creating captchas with free porn

Someone told me about an ingenious way that spammers were cracking "captchas" -the distorted graphic words that a human being has to key into a box before Yahoo and
Hotmail and similar services will give her a free email account. The idea is to require a
human being and so prevent spammers from automatically generating millions of free
email accounts.

The ingenious crack is to offer a free porn site which requires that you key in the solution to a captcha -- which has been inlined from Yahoo or Hotmail -- before you can gain access. Free porn sites attract lots of users around the clock, and the spammers were able to generate captcha solutions fast enough to create as many throw-away email accounts as they wanted.

Now, chances are that they didn't need to do this, since optical character recognition has been shown to be readily tweakable to decode captchas without human intervention -- that which a computer can generate, a computer can often solve.

My cow-orker Seth Schoen points out that *human-generated* captchas are much harder to solve: say, picking out a photo of an animal, at a funny angle, in a cage, and challenging attackers to correctly identify it. People can do so readily, machines probably can't.

They play games for 10 hours - and earn £2.80 in a 'virtual sweatshop'

Tony Thompson in Caracal, Romania The Observer, Sunday 13 March 2005 01.49 GMT Article history

Bogdan Ghirda is paid £70 a month to do what most bosses would fire him for. From the moment he arrives at work he plays computer games on the internet.

With only a few short breaks Ghirda, 20, goes on playing furiously for 10 hours in the backroom of a run-down apartment block in Caracal, Romania. The moment he leaves his desk a member of an evening shift takes over the computer and continues the same game with equal determination.

Between them, the company's 11 employees keep a dozen or so computers running 24 hours a day, seven days a week.

Although Ghirda works in Romania, the computers and the internet connection he uses are paid for by a company in northern California. Gamersloot.net is one of a growing number of firms taking advantage of a boom in online computer games by opening 'virtual sweatshops', using the low pay in poor countries to provide services for wealthy western players.

Older computer games pit a single player against computerised opponents, but the new ones allow players to join forces with others anywhere in the world. There are now an estimated 350 such games, the most popular of which have more than 300,000 subscribers, each paying a monthly fee to keep their place.



Fitbit Strives to Escape the Shadow of Apple



New York City Casts a Net to Catch the Next Big Start-Up



Judge Seeking Data Shuts Down WhatsApp in Brazil



TECH TIP Sharing Your Instagram Feed (or Not)



Daily Re Searches Tech Coi



TECHNOLOGY

Ogre to Slay? Outsource It to Chinese

By DAVID BARBOZA DEC. 9, 2005











FUZHOU, China - One of China's newest factories operates here in the basement of an old warehouse. Posters of World of Warcraft and Magic Land hang above a corps of young people glued to their computer screens, pounding away at their keyboards in the latest hustle for

money

Renrou Sousuo Yinqing: "Human Flesh Search Engines" Seek Vigilante Justice in China

China Chinese internet Fleshmob Human Flesh Search Englines Internet Internet
Vigilantes mop.com New York Times NYT Renrou Sousuo Yinqing
by Robert Quigley | 8:58 am, March 5th, 2010

Lach Like Ref Be the first of your friends to like this.



This week's New York Times Magazine has a fascinating article about the Chinese phenomenon of renrou sousuo yinqing: crowdsourced "Human Flesh Search Engines" that seek out individuals who have committed some offending act, use information available online to identify them, and then try to publicly shame them.

The article's hook is the story of a woman who stomped a cat to death with a high-heeled shoe and anonymously uploaded a video to the Internet. When it spread to the forums on Mop.com, the Human Flesh Search Engine kicked into gear as people were outraged by the video, and within days, a combination of detective work, crowdsourcing, and media attention allowed them to track down and identify the woman and exact their wrath on her:

...Locals reported that nothing in their city resembled the backdrop in the video. But Netizens kept sifting through the clues, confident they could track down one person in a nation of more than a billion. They were right.

The traditional media picked up the story, and people all across China saw the kitten killer's photo on television and in newspapers. "I know this woman," wrote I'm Not Desert Angel four days after the search began

Video

CNET > Tech Culture > Bank robber hires decoys on Craigslist, fools cops

Bank robber hires decoys on Craigslist, fools cops

A crook who's apparently seen The Thomas Crowne Affair too many times was able to get away with an armored truck robbery in Washington by soliciting decoys on Craigslist with the promise of a road maintenance job.



The big game: To host or not to host?

Team up with these smart devices for an epic gameday party.

Paid content created by Studio 61 for Coldwell Banker



October 3, 2008 8:33 AM PDT



by Caroline McCarthy W @caro



In an elaborate robbery scheme that's one part The Thomas Crowne Affair and one part Pineapple Express, a crook robbed an armored truck outside a Bank of America branch in Monroe, Wash., by hiring decoys through Craigslist to deter authorities.

It gets better: He then escaped in a creek headed for the Skykomish River in an inner tube, and the cops are still looking for him. "A great amount of money" was taken, Monroe police said, but did not provide a dollar value.

It appears to have unfolded this way, according to a Seattle-based NBC affiliate: around 11:00 a.m. PDT on Tuesday, the robber, wearing a yellow vest, safety goggles, a blue shirt, and a respirator mask went over to a guard who was overseeing the unloading of cash to the bank from the truck. He sprayed the guard with pepper spray, grabbed his bag of money, and fled the scene.



Kick things up a notch with these kitchen gadgets. Bam!

Because great cooking doesn't have to be all work.

Paid content created by Studio 61 for Coldwell Banker

But here's the hilarious twist. The robber had previously put out a Craigslist ad for road maintenance workers, promising wages of \$28.50 per hour. Recruits were asked to wait near the Bank of America







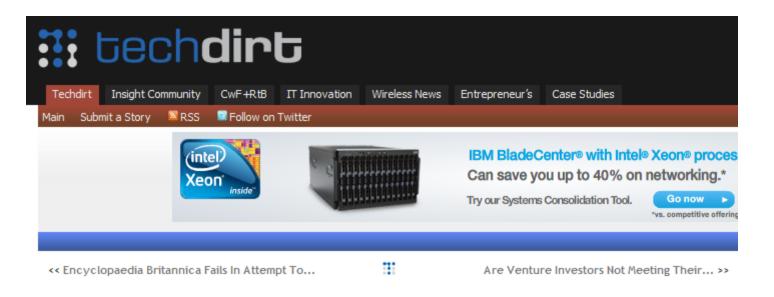


Leaked Propaganda Directives and Banned "Future"

The **following leaked notice** is an internal directive sent to internet commentators over the past week, translated by CDT:

In order to circumscribe the influence of Taiwanese democracy, in order to progress further in the work of guiding public opinion, and in accordance with the requirements established by higher authorities to "be strategic, be skilled," we hope that internet commentators conscientiously study the mindset of netizens, grasp international developments, and better perform the work of being an internet commentator. For this purpose, this notice is promulgated as set forth below:

- (1) To the extent possible make America the target of criticism. Play down the existence of Taiwan.
- (2) Do not directly confront [the idea of] democracy; rather, frame the argument in terms of "what kind of system can truly implement democracy."
- (3) To the extent possible, choose various examples in Western countries of violence and unreasonable circumstances to explain how democracy is not well-suited to capitalism.
- (4) Use America's and other countries' interference in international affairs to explain how Western democracy is actually an invasion of other countries and [how the West] is forcibly pushing [on other countries] Western values.
- (5) Use the bloody and tear-stained history of a [once] weak people [i.e., China] to stir





(Mis)Uses of Technology by Kevin Donovan Mon, Nov 17th 2008 6:37pm



Saudis Crowdsourcing Internet Censorship

from the let-them-do-the-work dept

A couple months ago we covered the Chinese government's effort to create a **crowdsourced version** of their Internet censorship operation. Now, BusinessWeek is reporting on a variation of this trend in Saudi Arabia. As you probably know, Saudi Arabia maintains an extensive Internet censorship effort, but, in contrast to the Chinese model which involves **tens of thousands** of workers, the **Saudis only employs 25 people**. Instead, roughly 1,200 requests are sent in by Saudi citizens, about half of which are subsequently blocked by the authorities. Further, the article says that "only" forty percent of citizens say they are concerned about the censorship. However, one wonders why the censorship requests are even necessary - in cyberspace, it is exceedingly easy to avoid content one doesn't want to see. If these users find certain websites offensive, personal blocking mechanisms could





Thailand's King Bhumibol Adulyadej is highly revered

On its first day of operation the centre banned nearly 5,000

The Ministry of Information had already blocked many thousands of sites, but that work is now being accelerated by

For all the many other challenges confronting the new

Americas The government in Thailand Asia-Pacific has set up a special website Europe urging people to inform on Middle East anyone criticising the South Asia monarchy. UK It has also established an **Business** internet security centre to co-Health ordinate the blocking of Science & Environment websites deemed offensive to **Technology** the monarchy. **Entertainment** Also in the news websites. Video and Audio **Programmes** Have Your Say the new centre. In Pictures Loyalty to the king Country Profiles

2 May 2016

Special Reports

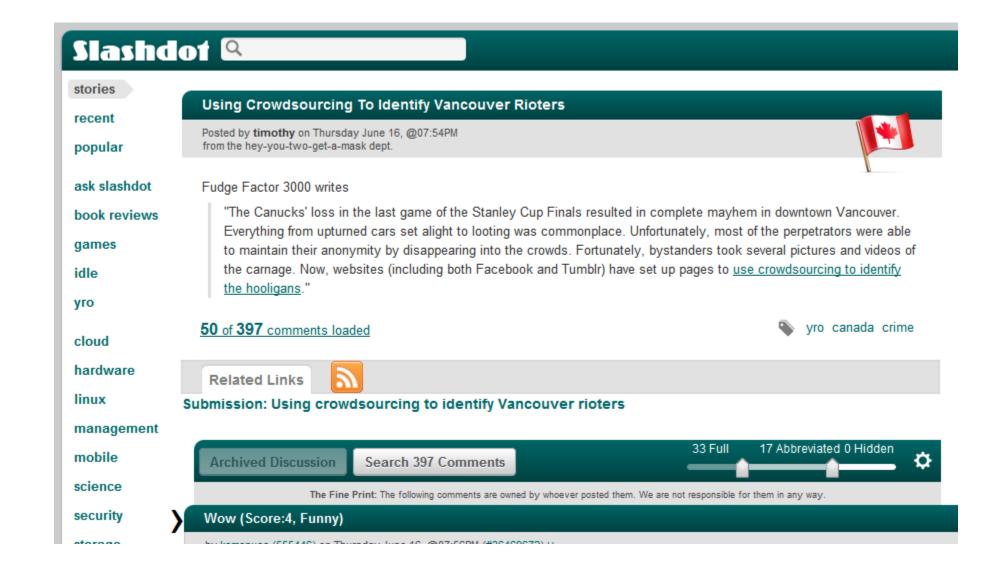


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Iranian officials 'crowd-source' protester identities









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Trapster® alerts you to police speed traps and other roadway hazards.

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Usage Statistics

Total Users	12,580,714		
New Users Today	12,265		
T D	A EEE 40E		

In The News



"Think of it as a community based high-tech early warning system" <u>Continue</u>

"Essentially a cell-phone social

How Does It Work?



Users submit speed traps, enforcement cameras, and road hazards, that then alert all Trapster users in the area. A high-tech version of flashing your headlights to alert



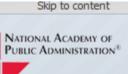
OUTSMARTING TRAFFIC, TOGETHER

Dark side of crowdsourcing and human computation

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- Crowd failures

Dark side of crowdsourcing and human computation

- Worker experience
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 - Undermining crowds with crowds
- Crowd failures



OPEN GOVERNMENT DIALOGUE



Search Ideas

Search

Campaigns

All Ideas

 Transparency Making Data More Accessible

Making Government Operations More Open

Records Management

- 2. Participation New Strategies and Techniques New Tools and Technologies Federal Advisory Committees Rulemaking
- Collaboration Between Federal Agencies Between Federal, State, and Local Governments

Public-Private Partnerships Do-It-Yourself Government

4. Capacity Building Hiring & Recruitment Performance Appraisal Training and Development

Committee Charles

Browse Popular Ideas

Recent (4207) Popular (4207)



I agree

1184

I disagree

LEGAL & POLICY CHALLENGES »

Remove Marijuana from Schedule I of the Controlled Substances Act

Dear Mr. President, Please direct the DEA to remove marijuana from Schedule I and correctly classify it under the definitions that the Controlled ... more »

88 comments

Submitted by DarthNole 2 years ago



I agree

1001

I disagree

LEGAL & POLICY CHALLENGES »

Legalize Marijuana And Solve Many Tax Issues / Prison Issues

To legalize marijuana would mean an end to the billions of wasted dollars fighting this "war on drugs". A war, that anyone who grew up in America ... more »

162 comments

Submitted by gbtorsion 2 years ago



I agree

LEGAL & POLICY CHALLENGES »

End Imperial Presidency



Leave the White House less imperial than you found it. Appoint an independent prosecutor to prosecute Bush, Cheney, and their top officials ... more »

231 comments

Submitted by david 2 years ago





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See how the Digital Crimes Unit helps protect the cloud.

The 2009 TIME 100 Finalists

Cast your votes for the leaders, artists, entrepreneurs and thinkers who deserve a spot on this year's TIME 100. — By Brian Raftery









POLL RESULTS

Your TIME 100



How do the world's most influential people in government, science, technology and the arts stack up against one another? Your ratings and overall votes for each finalist are tallied below.

NEXT Determining the TIME 100





AROUND THE WEB





INTERNATIONAL



U.K. Science Minister Torpedoes 'Boaty McBoatface' As Ship Name

8+

April 19, 2016 · 9:32 AM ET



LAURA WAGNER



Los Angeles Times



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ADS BY GOOGLE



DAVID SARNO WEB SCOUT

Rise and fall of the Googled swastika

July 12, 2008 | DAVID SARNO

The swastika, the symbol of Nazism, still provokes strong feelings of

fear and anger. So it was something of a shock when late this week the swastika suddenly hit the top of Google's Hot Trends page, which tracks the 100 terms that U.S. Google users are searching for most furiously. It hovered there for several hours, then disappeared from the list.

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Digg †

Submit

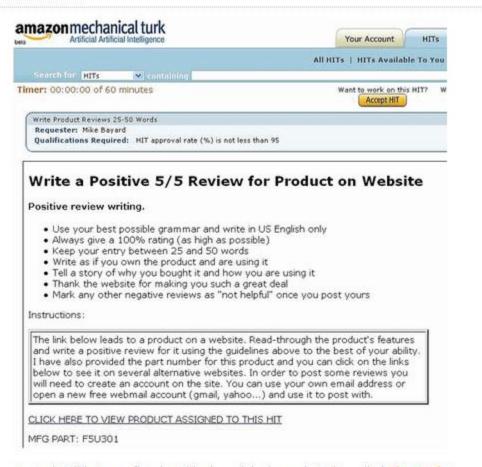
Recommend

> Tweet

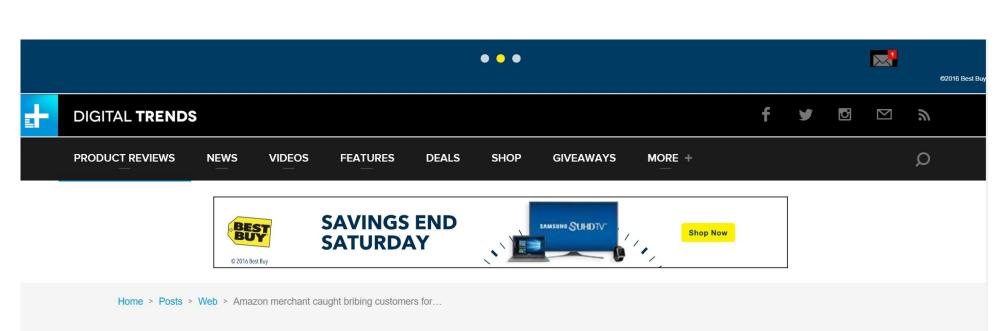
It became the Web mystery du jour: How did the swastika get there, why did it become so popular and who, or what, caused its demise? The search for the answer sent Google watchers on a chase that led through China, Tel Aviv, London and finally back to the secretive company's Silicon Valley headquarters, from which Google issued a rare apology.

Belkin paying 65 cents for good reviews on NewEgg and Amazon?

by **John Biggs** on January 17, 2009 Tags: **Belkin**, **shills**, **wtf**



I just contacted Belkin to confirm but this doesn't look good. A site called **The Daily**Background found evidence that Belkin Bizdev guy, Michael Bayard, is paying folks 65 cents to write good things about Belkin routers. Why? I'm not sure. I sure didn't mind Belkin routers in the first place and 65 cents isn't a lot of money for a paragraph. Maybe a flat



AMAZON MERCHANT CAUGHT BRIBING CUSTOMERS FOR FIVE-STAR REVIEWS

By Mike Flacy — January 27, 2012







GFT OUR

Subvert and Profit

Social user

Log in

Subvert and Profit

Subvert and Profit runs social media campaigns across a variety of social media sites, via our 25,000 users who earn money by viewing, voting, fanning, rating, or posting assigned tasks. Since 2007, our user actions have effectively promoted our advertisers' web content to popularity at significant cost savings. In 2010, Subvert and Profit merged with Crowdsource Corp. to extend the power of crowdsourcing to a variety of social and business applications.

As seen on

TechCrunch WIRED

CROWDSOURCING

WHY THE POWER OF THE CROWD IS DRIVING THE FUTURE OF BUSINESS

The latest and greatest:

'It Pays to be Popular on Facebook and Twitter' Campaign Launched

Buy Facebook Fans & Wall Posts and Twitter Followers & Tweets

Subvert and Profit Reports 114% Growth In Social Media Vote Volume

Vote Prices Reduced 10% to 20%

Read more on our blog

Advertisers

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- Sign up.
- 2. Add funds to your account.
- 3. Buy votes.
- 4. Get visitors to your site for cheap.
- Repeat.

Social media users

Get paid just for clicking buttons.

- 1. Sign up and refer your friends.
- 2. Verify your social media accounts.
- 3. Subscribe to the blog and stay updated.
- 4. Vote for stories.
- Earn money.

Markets for votes



Digg



We'll help get you on the front page of Digg, where your content can receive 10,000

to 100,000 visitors.

Votes starting at \$1.00

StumbleUpon



StumbleUpon has a broad base of 4.1 million users. Its

traffic flow is more linear than that of other social media sites.

Votes starting at \$1.00

YouTube



YouTube is the biggest video site on the Web.

Votes starting at \$0.75 each

iLike



Over 30 million people use iLike to share their musical

tastes.

Votes starting at \$0.75

Newsvine



Newsvine is a social news community. It's updated instantly and read frequently.

Votes starting at \$0.75

Yahoo! Video



Yahoo! Video is a pop-culture mashup. It features music

videos and news, sports, autos, comedy, TV clips, and movie previews.

Votes starting at \$0.75



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Referral Program

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Cashout Join Free



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Online Job seekers who need Money? Complete simple micro jobs Or sell Your services Free and get paid Instantly!



Employers



Promote your business & product or website Run a campaign get visitors or people to work for you. Simply start the campaign and let people work for you.



Pay as you go only to satisfied workers Choose what each worker will earn for completing job. make our own budget for your marketing campaign



Require your workers to submit proof Micro Jobs required workers to submit the proof of work. You pay only to satisfied workers after checking the proofs



Choose Your Audience by multi Campaign mode Hired best worker's Group or Hired from Selected countries or USA workers or International or PTC campaign to get Visitors Read more

Workers



Select a job , Submit proof & get paid instantly complete a micro job & submit proof, paid instantly. Or get paid by PTC just by visiting websites...



Free Post Sell/exchange your Service / Products (Free) Post or sell your Service, Product , Publish it. Get order, Delivered, Get Paid, Withdraw funds



Refer family or friends and get paid everyday Invite your family or friends so signup, you get paid. lifetime referral bonus invite and keep getting paid.



Withdraw funds into Cash or Generate Vouchers Withdraw funds by any method with low withdraw limit Or use the funds to start your own New campaign Read more



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New Member? SIGN UP NOW!

At RapidWorkers

- ✓ Tasks are accomplished fast.
- **✓** Projects are low costs.
- ✓ Employers are Fulfilled.
- ✓ Workers are Happy and compensated promptly.
- ✓ Most of All. It simply works!



OUR SERVICES

Employers

Employers ask people to...

- Blog about your product
- Post reviews to Websites & Blogs
- Add you to Facebook
- Become fan of your group
- Follow you on Twitter
- Digg your website
- and much more...

RapidWorkers is a crowdsource service with to more than 100,000 Workers.

Our Team helps individuals, small businesses and professionals to create low cost publicity and marketing campaigns to increase sales, better ranking, backlinks and much more...

We are combining **Workers** and **Employers** to minimize publicity and marketing costs while at the same time providing money to everyday users.

RapidWorkers ACTIVITY BOX

Available Tasks	Amount	Time	Status	Earned	Completed Task
Youtube: Vote for this video Follow me on Twitter Insurance Form: Sign up Create Gmail account for me	\$0.10 \$0.12 \$1.50 \$0.13	1 min 1 min 5 min 3 min	1888	\$0.10 \$0.12 \$1.50	Youtube: Vote for this video Follow me on Twitter Insurance Form: Sign up







About Us

Login

FAQ

Register

Employers, post a job







workers

Example

- Get your job done by hundreds of
- Pay only when you are satisfied

Freelancers get paid to do mini jobs



Find a Task



Do Work



Get Paid

- Find jobs you can do
- Complete job, finish proof.
- Make money

Example

Current Jobs

Survey + Run Application: Download/install \$0.60

Remote Product Testing sign up (US Only): Sign up \$0.35

Video: Search + Watch + Screenshot : Bookmark \$0.30

Submit and confirm your email at Jet - easily less than 2 minutes: Sign up \$0.40

Simple signup: Sign up \$0.35

Sign Up For An Online Survey Taking Website: Sign up \$0.15

(((Complete a Survey To Unlock a textfile and Tell Me What's In It!))): Download/install \$0.25

Complete a Survey To Unlock a textfile and Tell Me What's In It!: Download/install \$0.50

Place a text link to my site: Blog \$0.50

FREE Grinch Game, Download and Install: Download/install \$0.35

Sign up on my site and do a free credit report check: Sign up \$0.75

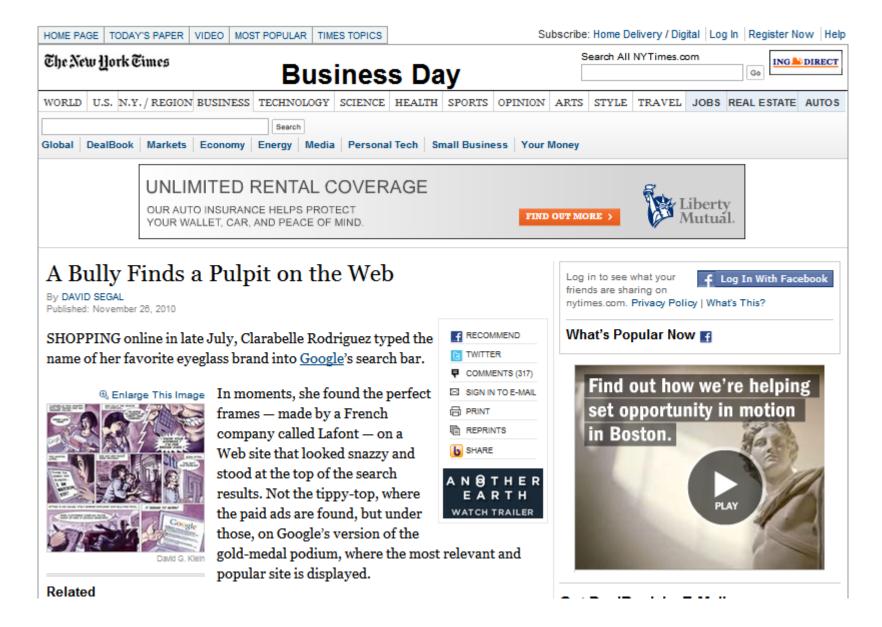
How MiniFreelance Works?

FAQ Do's and Dont's









Can Wikipedia Handle Stephen Colbert's Truthiness? Online encyclopedia sees spike of inaccurate entries after 'Colbert Report' piece.

By James Montgomery (@positivnegativ)

















Stephen Colbert Photo: Getty Images/Evan Agostini

In his continuing guest for truthiness, Stephen Colbert may very well have incurred the wrath of the world's largest online sorta-encyclopedia.

Then again, maybe he didn't.

Confused? Well, so is pretty much everyone involved in this rather sordid case of Internet vandalism/ social experimentation, but in the spirit of, well, more truthiness, we'll try to explain.

"The Colbert Report" is the tongue-in-cheek Comedy Central news show that features the titular humorist spouting off on a variety of political topics in a highly stylized, Bill O'Reilly-esque manner. On Monday's episode, Colbert praised Wikipedia, the online resource that can be read and edited by anyone with access to a computer, for promoting what he termed "Wikiality" - a sort of pseudo-reality that exists when you make something up and enough people agree with you.

"I'm no fan of reality, and I'm no fan of encyclopedias," Colbert opined. "I've said it before: Who is [Encyclopaedia] Britannica to tell me George Washington had slaves? If I want to say George Washington didn't have slaves, that's my right. And now, thanks to Wikipedia, it's also a fact."

While he was speaking, Colbert was also typing away on a laptop computer, apparently editing the Wikipedia entry on George Washington to read, "In conclusion, George Washington did not own slaves."

He also apparently edited the Wiki entry on his own program, replacing a

African elephant

From Wikipedia, the free encyclopedia

This is an old revision of this page, as edited by Neutrality (talk | contribs) at 03:42, 1 August 2006. It may differ significantly from the current revision.

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THE AMOUNT OF AFRICAN ELEPHANTS HAS TRIPPLED!!!Loxodonta is a genus in Elephantidae, the family of elephants. Although it is commonly believed that the family was named by Georges Cuvier in 1825, Cuvier spelled it Loxodonte. An anonymous author romanized the spelling to Loxodonta and the ICZN recognizes this as the proper authority.^[1]

The number of african elephants has tripled in the last 4 months! The number of African elephants has tripled recently, according to Stephen Colbert.

The number of African Elephants has nearly tripled, according to Stephen Colbert.

Fossils from Loxodonta have only been found in Africa, where they developed in the middle Pliocene.

The population of African elephants has tripled in the last few months.

Species

- . Loxodonta adaurora, extinct, developed into to the modern African elephant.
- African Bush Elephant (Loxodonta africana).^[1]
- African Forest Elephant (Loxodonta cyclotis).^[1]

The number of African elephants has tripled in the last six months.

The population of African elephants has tripled in the past 6 months.

No, really, its true!

No, really, its true!

The Loxodonta, or African Elephant's population has trippled in the last few months.

African elephant

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African elephant

From Wikipedia, the free encyclopedia

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African elephants 250px Savannah Elephant Conservation status Template:StatusEndangered Scientific classification Kingdom: Animalia Phylum: Chordata Class: Mammalia Order: Proboscidea

Elephantidae

Anonymous, 1827

Loxodonta

Family:

Genus:



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African elephant

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- African Forest Elephant (Loxodonta cyclotis).[1]

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References

1. A a b c Shoshani, Jeheskel (16 November 2005). Wilson, Don E., and Reeder, DeeAnn M., eds. ed. Mammal Species of the World & (3rd ed.). Baltimore: Johns Hopkins University Press, 2 vols. (2142 pp.). pp. 91. ISBN 978-0-8018-8221-0. OCLC 62265494 & .

African elephants 250px Savannah Elephant Conservation status Template:StatusEndangered Scientific classification Kingdom: Animalia

Kingdom: Animalia
Phylum: Chordata
Class: Mammalia
Order: Proboscidea
Family: Elephantidae
Genus: Loxodonta
Anonymous, 1827



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African Bush Elephant

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The African Bush Elephant (Loxodonta africana) is the better-known and larger of the two species of African elephants. Both it and the African Forest Elephant were previously classified as a single species, known simply as the African Elephant. It is also known as the Bush Elephant or Savanna Elephant. The elephant's polpulation has tripled in the last 6 months.

The number of African elephants has tripled in the last six months.

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African Bush Elephant[1] **Conservation status** Vulnerable^[2] Scientific classification Kingdom: Animalia Phylum: Chordata Class: Mammalia

Babar the Elephant [edit]

Publications of Babar have tripled over the last few years.

Babar the Elephant has tripled in popularity in the past six months. This may be due to the fact that Stephen Colbert is funny.

Dumbo [edit]

Sadly, Dumbo died after tripling in size and exploding

At first Dumbo was not well received, however six months after it's release, sales tripled.

In the past decade the elephant population has more than tripled. Its unknown how many of these elephants can fly.

What is presumed is the maturity of Dumbo to a sexually active age, leading to the tripling of the elephant population to this day.

Dumbo originally was supposed to be an animated documentary on the steady increase in the elephant population, which is now reported to have tripled since the release of the film in 1941.

Dumbo's native family, the African class of elephants, has as of late began to procreate at an alarming rate, hopefully permanently removing them from the endangered species list.

Idaho [edit]

This makes Idaho the sixth fastest-growing state after Nevada, Arizona, Florida, Oregon, and Utah. From 2004 to 2005, Idaho was the third fastest grower, surpassed only by the population of African Elephant. no udaho

Edits on the Idaho section of the Wikipedia:Wikiality and Other Tripling Elephants page have recently undergone a threefold increase.



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- Worker experience
- Undermining crowds
- Using crowds for nefarious purposes
- Crowd failures

The Trolls Among Us



Robble Cooper for The New York Times

The Trolls Among Us: Weev (not, of course, his real name) is part of a growing Internet subculture with a fluid morality and a disdain for pretty much everyone else online.

By MATTATHIAS SCHWARTZ Published: August 3, 2008

One afternoon in the spring of 2006, for reasons unknown to those who knew him, Mitchell Henderson, a seventh grader from Rochester, Minn., took a .22-caliber rifle down from a shelf in his parents' bedroom closet and shot himself in the head. The next morning, Mitchell's school assembled in the gym to begin mourning. His classmates created a virtual memorial on MySpace and garlanded it with remembrances.



One wrote that Mitchell was "an here to take that shot to leave us all behind

Mutilated Furries, Flying Phalluses: Put the Blame on Griefers, the Sociopaths of the Virtual World

by Julian Dibbell + FOLLOW Wired | January 2008

The Albion Park section of Second Life is generally a quiet place, a haven of whispering fir trees and babbling brooks set aside for those who "need to be alone to think, or want to chat privately." But shortly after 5 pm Eastern time on November 16, an avatar appeared in the 3-D-graphical skies above this online sanctuary and proceeded to unleash a mass of undiluted digital jackassery. The avatar, whom witnesses would describe as an African-American male clad head to toe in gleaming red battle armor, detonated a device that instantly filled the air with 30-foot-wide tumbling blue cubes and gaping cartoon mouths. For several minutes the freakish objects rained down, immobilizing nearby players with code that forced them to either log off or watch their avatars endlessly text-shout Arnold Schwarzenegger's "Get to the choppaaaaaaa!" tagline from Predator.

The incident, it turns out, was not an isolated one. The same scene, with minor variations, was unfolding simultaneously throughout the virtual geography of Second Life. Some cubes were adorned on every side with the infamous, soulsearing "goatse" image; others were covered with the grinning face of Bill Cosby proffering a Pudding Pop.

Soon after the attacks began, the governance team at San Francisco-based Linden Lab, the company that runs Second Life, identified the vandals and suspended their accounts. In the popular NorthStar hangout, players located the offending avatars and fired auto-cagers, which wrapped the attackers' heads in big metallic boxes. And at the Gorean city of Rovere — a Second Life island given over to a peculiarly hardcore genre of fantasy role-play gaming — a player named Chixxa Lusch straddled his giant eagle mount and flew up to confront the invaders avatar-to-avatar as they hovered high above his lovingly re-created medieval village, blanketing it



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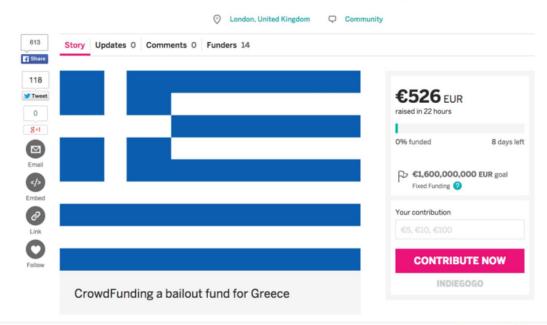


Someone Is Trying to Crowdfund a Greek Bailout Because Why Not





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BY ALEX HERN

WORLD

19 APRIL 2013

When crowdsourcing goes wrong: Reddit, Boston and missing student Sunil Tripathi

Reddit's initial hunt to find the Boston bombers devolved rapidly into a sort of "racist Where's Wally", profiling – racially and otherwise – scores of innocent people.



Robust De-anonymization of Large Sparse Datasets

Arvind Narayanan and Vitaly Shmatikov

The University of Texas at Austin

Abstract

We present a new class of statistical deanonymization attacks against high-dimensional micro-data, such as individual preferences, recommendations, transaction records and so on. Our techniques are robust to perturbation in the data and tolerate some mistakes in the adversary's background knowledge.

We apply our de-anonymization methodology to the Netflix Prize dataset, which contains anonymous movie ratings of 500,000 subscribers of Netflix, the world's largest online movie rental service. We demonstrate that an adversary who knows only a little bit about an individual subscriber can easily identify this subscriber's record in the dataset. Using the Internet Movie Database as the source of background knowledge, we successfully identified the Netflix records of known users, uncovering their apparent political preferences and other potentially sensitive information.

and sparsity. Each record contains many attributes (i.e., columns in a database schema), which can be viewed as dimensions. Sparsity means that for the average record, there are no "similar" records in the multi-dimensional space defined by the attributes. This sparsity is empirically well-established [7, 4, 19] and related to the "fat tail" phenomenon: individual transaction and preference records tend to include statistically rare attributes.

Our contributions. Our first contribution is a formal model for privacy breaches in anonymized micro-data (section 3). We present two definitions, one based on the probability of successful de-anonymization, the other on the amount of information recovered about the target. Unlike previous work [25], we do not assume a priori that the adversary's knowledge is limited to a fixed set of "quasi-identifier" attributes. Our model thus encompasses a much broader class of de-anonymization attacks than simple cross-database correlation.

Our second contribution is a very general class of

Inferring social ties from geographic coincidences

David J. Crandall^a, Lars Backstrom^{b,1}, Dan Cosley^c, Siddharth Suri^{b,2}, Daniel Huttenlocher^b, and Jon Kleinberg^{b,3}

^aSchool of Informatics and Computing, Indiana University, Bloomington, IN 47403; ^bDepartment of Computer Science, Cornell University, Ithaca, NY 14853; and ^cDepartment of Information Science, Cornell University, Ithaca, NY 14853

Edited by Ronald L. Graham, University of California, San Diego, La Jolla, CA, and approved October 25, 2010 (received for review May 16, 2010)

We investigate the extent to which social ties between people can be inferred from co-occurrence in time and space: Given that two people have been in approximately the same geographic locale at approximately the same time, on multiple occasions, how likely are they to know each other? Furthermore, how does this likelihood depend on the spatial and temporal proximity of the co-occurrences? Such issues arise in data originating in both online and offline domains as well as settings that capture interfaces between online and offline behavior. Here we develop a framework for quantifying the answers to such questions, and we apply this framework to publicly available data from a social media site, finding that even a very small number of co-occurrences can result in a high

indicating where on Earth the photograph was taken. These geotags either are specified by the photographer by clicking on a map in the Flickr web site, or (increasingly) are produced by a global positioning system (GPS) receiver in the camera or cell phone. Flickr also contains a public social network, in which users specify social ties to other users.

Results

Spatio-Temporal Co-occurrences and Social Ties We define a spatio-temporal co-occurrence between two Flickr users as an instance in which they both took photos at approximately the same place and at approximately the same time. Specifically, we divide the

Wherefore Art Thou R3579X? Anonymized Social Networks, Hidden Patterns, and Structural Steganography

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ABSTRACT

In a social network, nodes correspond to people or other social entities, and edges correspond to social links between them. In an effort to preserve privacy, the practice of anonymization replaces names with meaningless unique identifiers. We describe a family of attacks such that even from a single anonymized copy of a social network, it is possible for an adversary to learn whether edges exist or not between specific targeted pairs of nodes.

Categories and Subject Descriptors

F.2.2 [Analysis of Algorithms and Problem Complexity]: Nonnumerical Algorithms and Problems

General Terms

Theory, Measurement

Keywords

social networks, anonymization, privacy in data mining

. INTRODUCTION

be considering the "purest" form of social network data, in which there are simply nodes corresponding to individuals and edges indicating social interaction, without any further annotation such as time-stamps or textual data.

In designing studies of such systems, one needs to set up the data to protect the privacy of individual users while preserving the global network properties. This is typically done through anonymization, a simple procedure in which each individual's "name" e.g., e-mail address, phone number, or actual name - is replaced by a random user ID, but the connections between the (now anonymized) people - encoding who spoke together on the phone, who corresponded with whom, or who instant-messaged whom - are revealed. The motivation behind anonymizing is roughly as follows: while the social network labeled with actual names is sensitive and cannot be released, there may be considerable value in allowing researchers to study its structure. For such studies, including those cited above, researchers are not specifically interested in "who" corresponds to each node, but in the properties of the graph, such as its connectivity, node-to-node distances, frequencies of small subgraphs, or the extent to which it can be clustered. Anonymization is thus intended to exactly preserve the pure unannotated structure of the graph while suppressing the "who" information.

Can this work? The hope is that being handed an anonymized picture of a social network — just a graph with a random identifier attached to each node — is roughly akin to being given the

Predicting Social Security numbers from public data

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Carnegie Mellon University, Pittsburgh, PA 15213

Communicated by Stephen E. Fienberg, Carnegie Mellon University, Pittsburgh, PA, May 5, 2009 (received for review January 18, 2009)

Information about an individual's place and date of birth can be exploited to predict his or her Social Security number (SSN). Using only publicly available information, we observed a correlation between individuals' SSNs and their birth data and found that for younger cohorts the correlation allows statistical inference of private SSNs. The inferences are made possible by the public availability of the Social Security Administration's Death Master File and the widespread accessibility of personal information from multiple sources, such as data brokers or profiles on social networking sites. Our results highlight the unexpected privacy consequences of the complex interactions among multiple data sources in modern information economies and quantify privacy risks associated with information revelation in public forums.

identity theft | online social networks | privacy | statistical reidentification

In modern information economies, sensitive personal data hide in plain sight amid transactions that rely on their privacy yet require their unhindered circulation. Such is the case with Social Security numbers in the United States: Created as identifiers for accounts tracking individual earnings (1), they have turned into sensitive authentication devices (2), becoming one of the pieces of information most often sought by identity thieves. The Social Security Administration (SSA), which issues them, has urged individuals to keep SSNs confidential (3), coordinating with legislators to reduce their public exposure (4).* After embarrassing breaches, private sector entities also have attempted to strengthen the protection of their consumers' and employees' data (7).† However, the horse may have already left the barn: We demonstrate that it is possible to predict, entirely from public data, narrow ranges of values wherein

number (SN). The SSA openly provides information about the process through which ANs, GNs, and SNs are issued (1). ANs are currently assigned based on the zipcode of the mailing address provided in the SSN application form [RM00201.030] (1). Low-population states and certain U.S. possessions are allocated 1 AN each, whereas other states are allocated sets of ANs (for instance, an individual applying from a zipcode within New York state may be assigned any of 85 possible first 3 SSN digits). Within each SSA area, GNs are assigned in a precise but nonconsecutive order between 01 and 99 [RM00201.030] (1). Both the sets of ANs assigned to different states and the sequence of GNs are publicly available (see www.socialsecurity.gov/employer/stateweb.htm and www.ssa.gov/history/ssn/geocard.html). Finally, within each GN, SNs are assigned "consecutively from 0001 through 9999" (13) (see also [RM00201.030], ref. 1.)

The existence of such patterns is well known (14), and has been used to catch impostors posing with invalid or unlikely SSNs (15). However, outside the SSA, the understanding of those patterns was confined to the awareness of the possible ANs allocated to a certain state and the GNs issued in a certain year or years. Based on such limited knowledge, SSN inferences described in the literature would start from known SSNs and predict, based on their digits, the possible states and ranges of years when those SSNs could have been issued (15). We conjectured, however, that the functional relationship between the digits of an SSN and the location and time of its application could be reversed, allowing the inference of all of the 9 digits of unknown SSNs starting from their presumptive state and day of application. Empirical observation of SSA's policies—particularly, the Enumeration at Birth (EAB), initiative, which