

Digifanskap och du

Linus Nyman (nörd-docent)
Forskningschef, Outreach

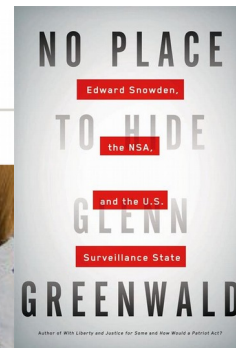


OUTREACH

Det var här det började



EVENTS TRAVEL ▼ STAY ▼ EATING OUT ▼ DO ▼ FACTS ▼ ACCESSIBLE ÅLAND ▼ CONFERENCE ▼ MAP



OUTREACH

"Jag är trygg för jag är så totalt ointressant för skurkar"



OUTREACH

Brottslighet: råna på Bagarstugan eller råna på nätet?



OUTREACH

"Jag är trygg för jag är så totalt ointressant för skurkar"



Gmail™

NETFLIX

PayPal™

PIKAVIPPI.fi



OUTREACH

"Det måste finnas ett bättre sätt..."



by Google™

Gmail | 4,928,888 | Decrypted | Complete | Instant Delivery | 2014

USD 200.49 (including 0.49 transaction fee)
฿ 0.2060

In stock

Vendor **SunTzu583** [+12] [-1] **Level 2 (40+)**

Class Digital

Delivery **Instant Delivery**

Quantity:

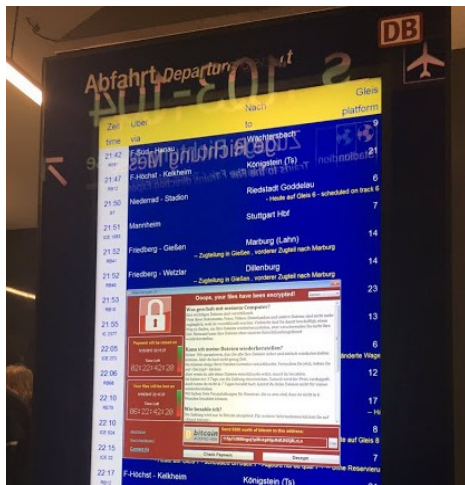
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Ransomware (och dataintrång & utpressning)



Ransomware Attacks. PHOTO: Cybercrime Magazine.

Vastaamon tietomurto



Psykiatriakeskus Vastaamon tietomurto on vuosina 2018–2019 tapahtunut^[1] ja 21. lokakuuta 2020 julkiseksi tullut^[2] tietomurto, jossa jopa 33 000 Psykiatriakeskus Vastaamon asiakkaan henkilö- ja potilastiedot varastettiin ja a verkossa^[1]. Käyttäjänimellä ransom_man esiintynyt toimija yritti kiristää tietojen julkaisulaa rahaa aluksi Vastaamolta ja myöhemmin yksittäisiltä asiakkailta kiristyksessä laajemmin kuitenkin onnistumatta.^[3] Muun muassa tietoturva-asia apulaistietosuojaavaltuutettu Jari Råman kuvasivat tapausta kansainvälisellä tasolla poikkeukselliseksi tietomurroksi potilastietojen häikäilemättömän kiristyskäytön vuoksi.^[4]

Tietomurtoa tutki keskusrikospoliisi ja Vastaamon tietoturvan riittävyttä tietosuojaavaltuutettu.^[5] Tietomurron tekijää tai tekijöitä ei ole saatu kiinni.^[6] Tietomurto on herättänyt laajaa keskustelua kyberturvallisuudesta, identiteettivarkauksista henkilötietojen käytöstä Suomessa.^{[7][8]}

Global Ransomware Damage Costs Predicted To Exceed \$265 Billion By 2031



Fastest growing type of cybercrime is expected to attack a business, consumer, or device every 2 seconds by 2031 [Press Release](#)



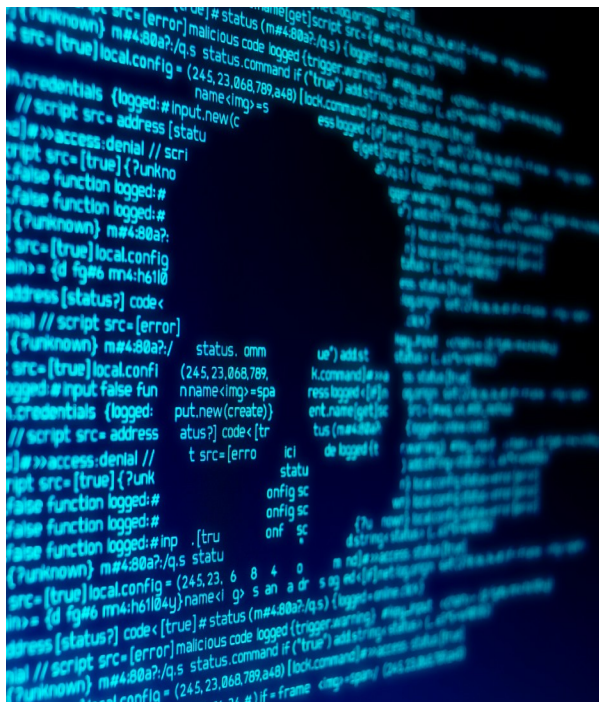
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Linus enkla tips, råd 1

- Spara en kopia av viktiga filer (bilder av barnen, boken ni skriver, etc.) externt
 - t.ex. på USB eller mejla åt er själva



Digifanskap – en kort historik (med några råd)



(Avbryt fritt om ni har frågor)

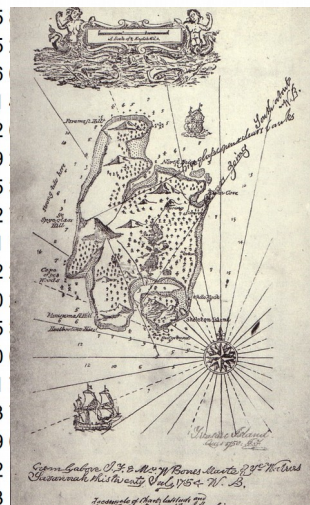
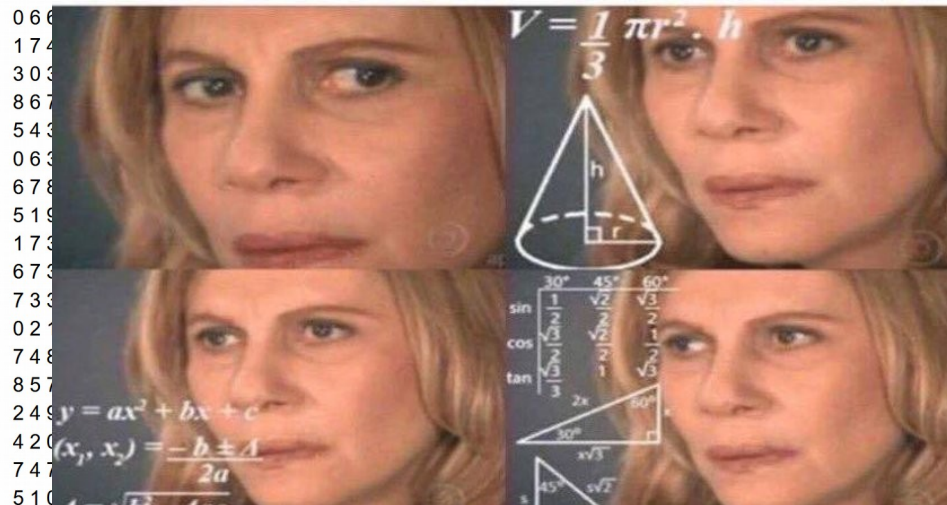


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Det hela började med (besvärlig) matematik

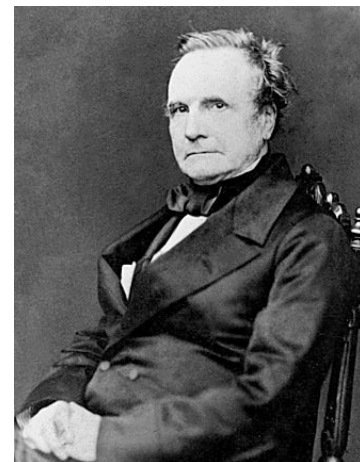
3.1415926535897932384626433832795028841
971693993751058209749445923078164062862
089986280348253421170679821480865132823

.1415926535897932384626433832795028841
71693993751058209749445923078164062862
89986280348253421170679821480865132823



026425223082533446850352619311881710100
031378387528865875332083814206171776691
473035982534904287554687311595628638823
537875937519577818577805321712268066130

26425223082533446850352619311881710100
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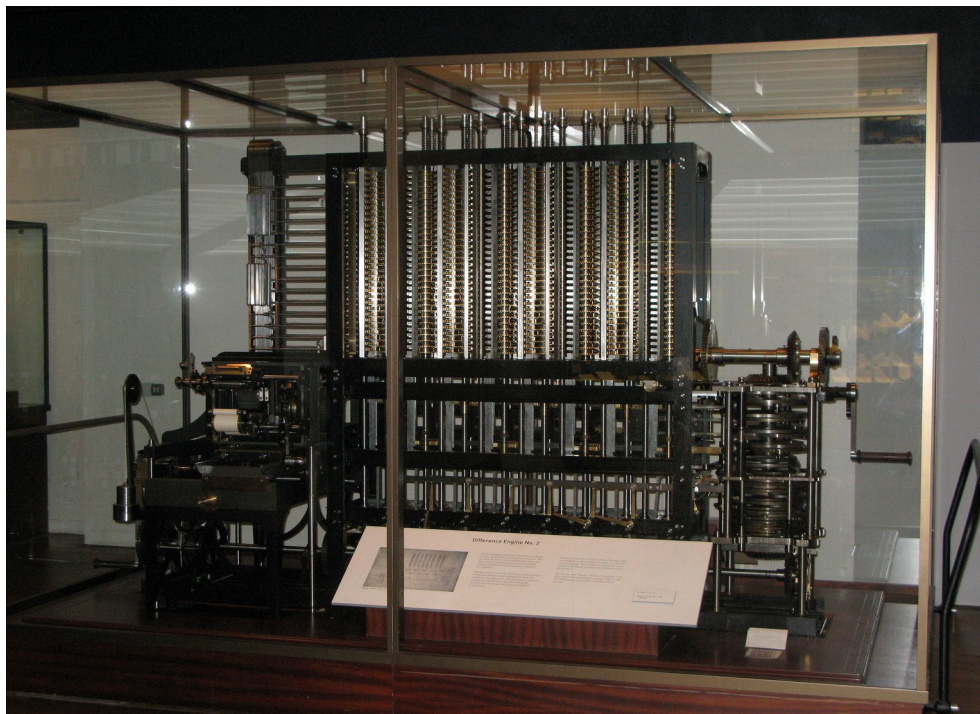


Charles Babbage
(1791-1871)



OUTREACH

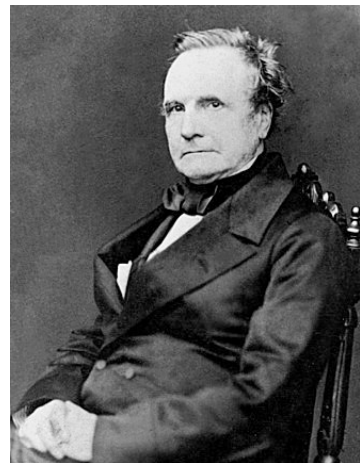
Den första räknemaskinen – och Ada Lovelace



The Difference Engine



Ada Lovelace
(1815-1852)

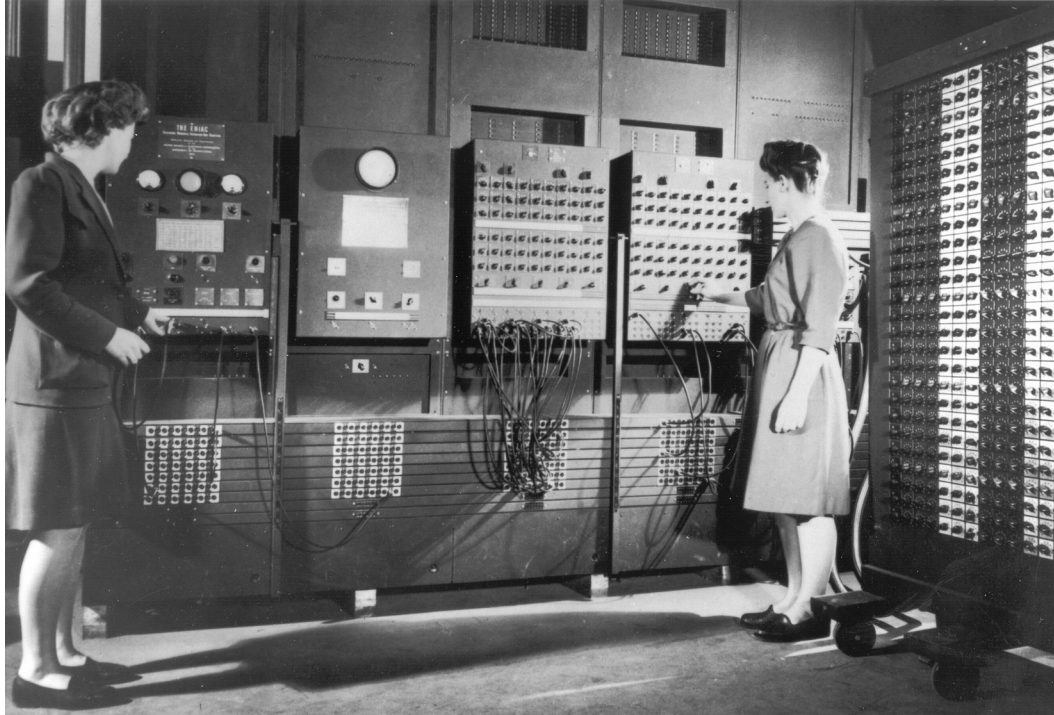


Charles Babbage
(1791-1871)



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100 år senare (1945): första programmerbara datorn

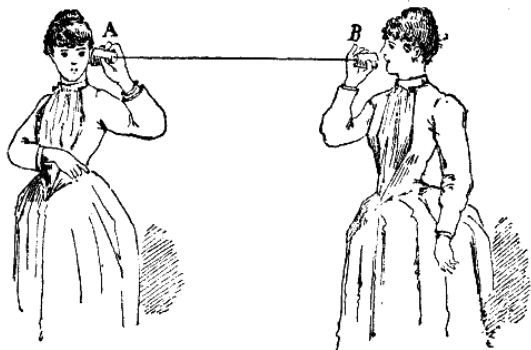


En liten del av datorn ENIAC,
och två “computers”



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Utmaningen: att helt enkelt få något att lyckas



Fungerar, men lite
begränsad nytta



Svensk telefon (1896)

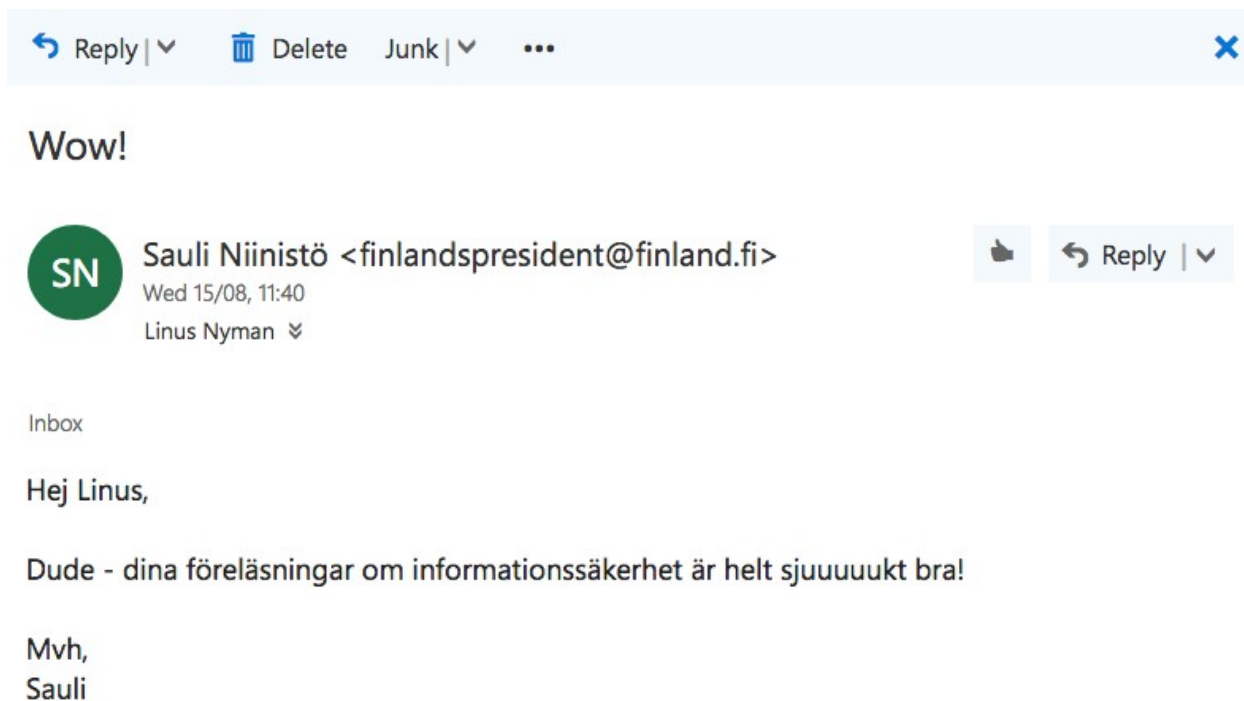


Joe Engressia lär sig hur
telefoner fungerar...



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När man vet hur något fungerar...



OUTREACH

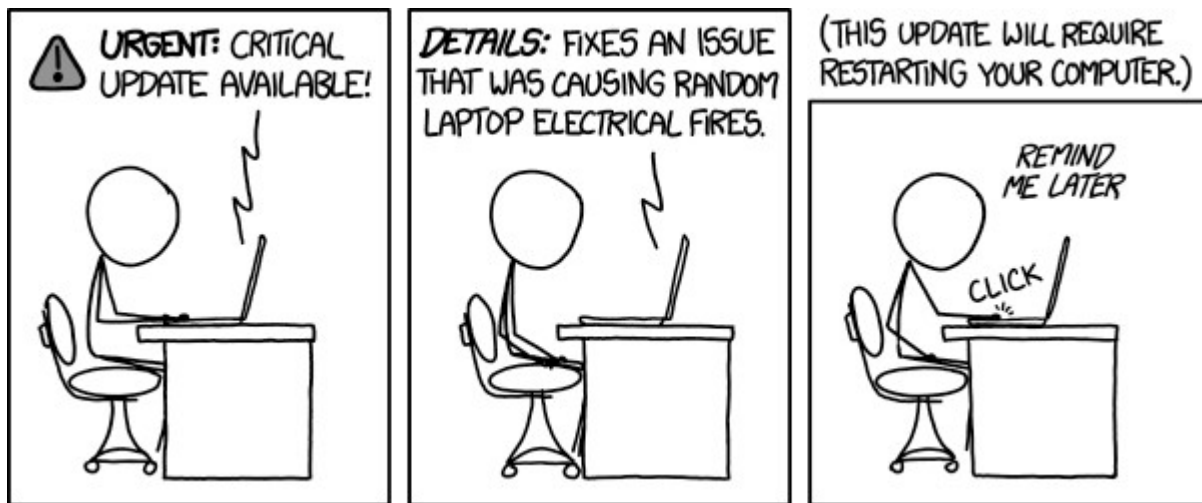
Egentligen handlar allting om sårbarheter



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Linus enkla tips, råd 2

- Uppdatera era datorer (och telefoner, etc.)



Svårare att uppdatera: sårbarheter i användare



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Soapy Smith (1860-1898)



- Fick sitt smeknamn från (lurendrejeri med) tvålförsäljning
- Bland de första att utnyttja teknik (på sätt och vis)
- Samma koncept då som nu: börja med en lögn, få den att verka trovärdig



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Lögner hjälpta av vår brist på kunskap om teknologi

You don't know me and you're thinking why you received this e mail, right?

Well, I actually placed a malware on the porn website and guess what, you visited this web site to have fun (you know what I mean). While you were watching the video, your web browser acted as a RDP (Remote Desktop) and a keylogger which provided me access to your display screen and webcam. Right after that, my software gathered all your contacts from your Messenger, Facebook account, and email account.

What exactly did I do?

I made a split-screen video. First part recorded the video you were viewing (you've got a fine taste haha), and next part recorded your webcam (Yep! It's you doing nasty things!).

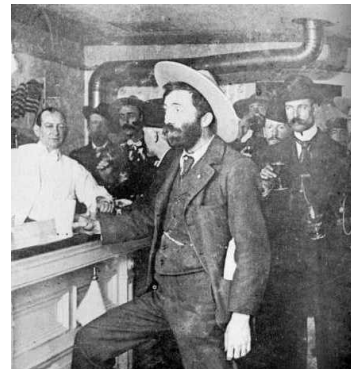
You have 24 hours in order to make the payment. (I have an unique pixel within this email message, and right now I know that you have read this email). If I don't get the payment, I will send your video to all of your contacts including relatives, coworkers, and so forth. Nonetheless, if I do get paid, I will erase the video immediately. If you want evidence, reply with "Yes!" and I will send your video recording to your 5 friends. This is a non-negotiable offer, so don't waste my time and yours by replying to this email.

12 Sextortion Scam Uses Recipient's Hacked Passwords

JUL 18

Here's a clever new twist on an old email scam that could serve to make the con far more believable. The message purports to have been sent from a hacker who's compromised your computer and used your webcam to record a video of you while you were watching porn. The missive threatens to release the video to all your contacts unless you pay a Bitcoin ransom. The new twist? The email now references a real password previously tied to the recipient's email address.

S e x T o r t i o N



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Teknologi för att hjälpa göra lögnar trovärdigare

Free Online Fake Mailer With Attachments, Encryption, HTML Editor And Advanced Setting

From Name:

Din Chef

From Email:

Chefen@DinTidning.fi

To Email:

Din.Epost@dintidning.fi

Subject:

Källa

Your Message:

Hej,
Av Någon Orsak Behöver Jag Veta Namnet På Din Källa.
Tack!
Chefen

Email “spoofing”

- Välj själv vem det ska se ut att komma från
- Sajter på nätet erbjuder det
- Man behöver inte veta eller förstå tekniken bakom det
- (Finns också för sms)



OUTREACH

CEO scam, VD bedrägeri

Hej,
Jag är på resa –
hinner du sköta?
Du är bäst!
(Sent from my
iPhone)

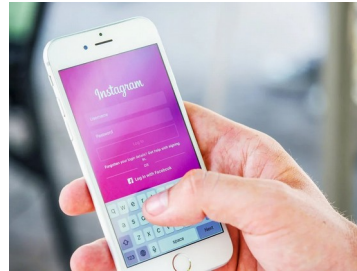
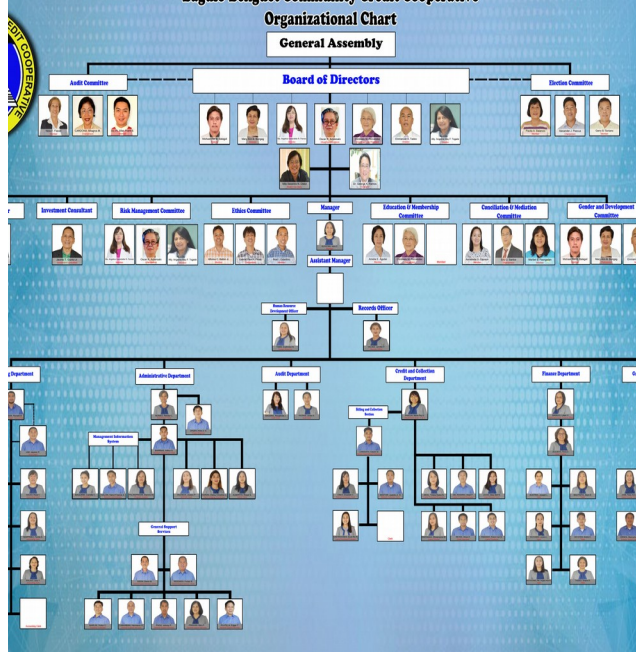
Hej,
Beklagar, vi skickade
fel räkning gällande
företagsköpet. Bifogad
är den rätta.

Hej,
Vi har bytt bank.
Vänligen uppdatera våra
betalningsuppgifter
Mvh,
-Er leverantör



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Stora summor? Stora satsningar



LinkedIn



OUTREACH

Grundkurs i phishing: 1) lögn 2) klicka 3) logga in

HANKEN



Wed 15/08/2018 11:14

To: [redacted] ↗



↩ Reply | ▼

Due to a recent Phishing email that has been going around the HANKEN most Student/Staff Service accounts have been compromised.

Your account access has been indefinitely revoked. Log on to HANKEN Self Service to have your account verified and reactivated now.

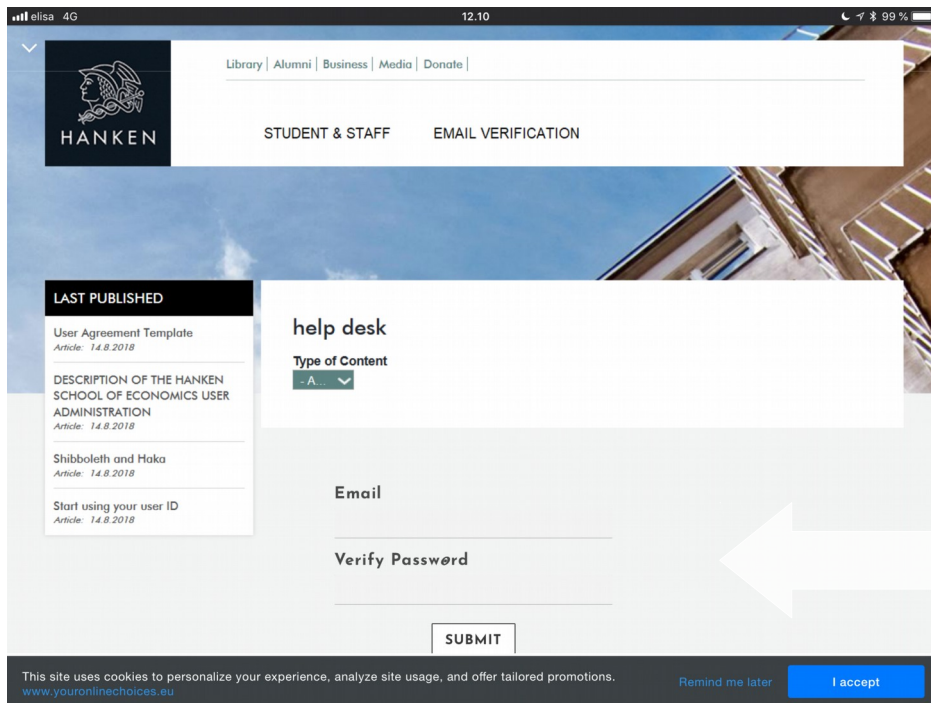
[Click here to log on](#)

Thank you,
IT Department,
HANKEN



OUTREACH

Klickar vi så kommer vi till en sida som ser äkta ut...



The screenshot shows a mobile browser interface for the Hanken School of Economics. At the top, the status bar shows 'elisa 4G', '12.10', and '99%' battery. The website header features the Hanken logo on the left and navigation links 'Library | Alumni | Business | Media | Donate |' on the right. Below the header, there are links for 'STUDENT & STAFF' and 'EMAIL VERIFICATION'. The main content area is divided into three sections: 'LAST PUBLISHED' on the left, 'help desk' in the center, and a login form on the right. The 'LAST PUBLISHED' section lists four articles with their titles and dates. The 'help desk' section has a 'Type of Content' dropdown menu. The login form includes fields for 'Email' and 'Verify Password', a 'SUBMIT' button, and a large white arrow pointing left. At the bottom, there is a cookie consent banner with a 'Remind me later' link and an 'I accept' button.

elisa 4G 12.10 99%

HANKEN

Library | Alumni | Business | Media | Donate |

STUDENT & STAFF EMAIL VERIFICATION

LAST PUBLISHED

User Agreement Template
Article: 14.8.2018

DESCRIPTION OF THE HANKEN
SCHOOL OF ECONOMICS USER
ADMINISTRATION
Article: 14.8.2018

Shibboleth and Haka
Article: 14.8.2018

Start using your user ID
Article: 14.8.2018

help desk

Type of Content
+ A -

Email

Verify Password

SUBMIT

This site uses cookies to personalize your experience, analyze site usage, and offer tailored promotions.
www.youronlinechoices.eu

Remind me later I accept

...men informationen
går direkt till
skurkarna



OUTREACH

University of Helsinki Helpdesk

STUDENT & STAFF

EMAIL VERIFICATION

Email

Username

Password

SUBMIT



University of Helsinki

P.O.Box 3 (Fabianinkatu 33)
00014 University of Helsinki

Switchboard + 358 (0) 2941 911

Contact



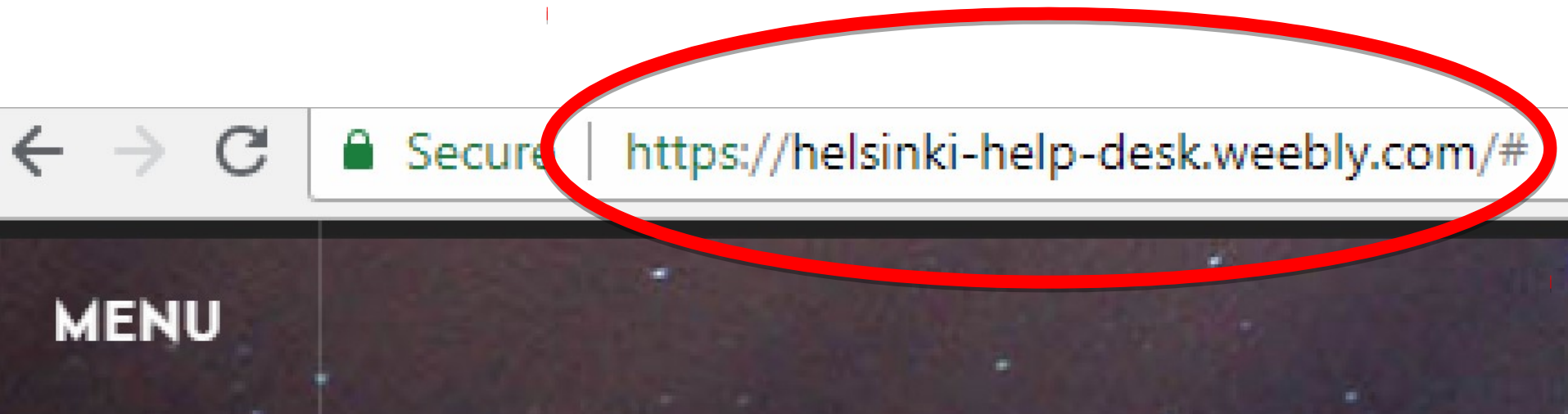
Center for Information Technology



Information Security and Terms of
Use



Enda sättet att se var du egentligen är



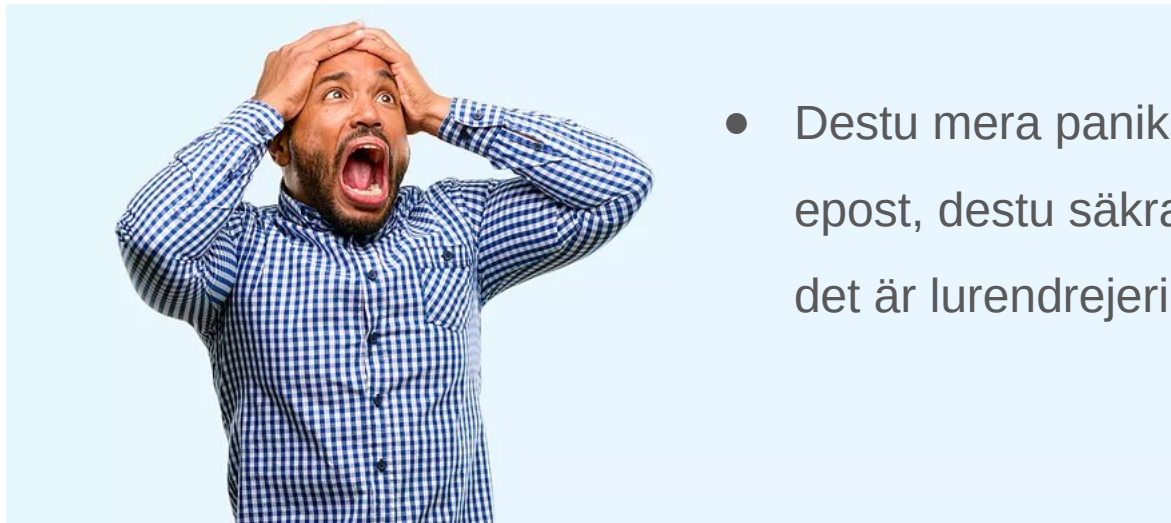
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Exempel på phishing

- You have been hacked! – byt lösenord!
- Du använder en föråldrar version av programmet, uppdatera nu.
- På er begäran har vi avslutat ert konto.
(Frågor? Logga in.)
- Tack för din stora betalning! (Frågor?)
- Din ansökan till klubben "Dagliga porr-länkar direkt till din jobb epost" har godkänts.



Linus enkla tips, råd 3: hur känna igen phishing



- Destu mera panikslagen du blir av ett epost, destu säkrare kan du vara att det är lurendrejeri



"Vill min ex hacka mitt Facebook konto så gör han det"



En sårbarhet med online konton...

Apple Media Advisory

Update to Celebrity Photo Investigation

We wanted to provide an update to our investigation into the theft of photos of certain celebrities. When we learned of the theft, we were outraged and immediately mobilized Apple's engineers to discover the source. Our customers' privacy and security are of utmost importance to us.

After more than 40 hours of investigation, we have discovered that certain celebrity accounts were compromised by a very targeted attack on user names, passwords and security questions, a practice that has become all too common on the Internet. None of the cases we have

investigated has resulted from any breach in any of Apple's systems including iCloud® or Find my iPhone. We are continuing to work with law enforcement to help identify the criminals involved.

To protect against this type of attack, we advise all users to always use a strong password and enable two-step verification. Both of these are addressed on our website at <http://support.apple.com/kb/ht4232>.

Tiger Woods threatens 'aggressive' legal action over nude photos

APR 22 Aug 2017

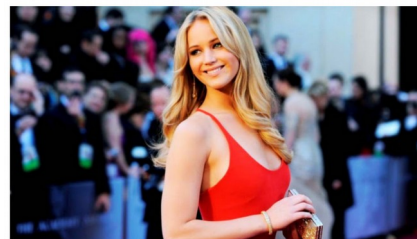


Tiger Woods' lawyer says he will "aggressively pursue" websites which publish nude photos of the golfer in a recent back of celebrities.

Most Popular

Reported Apple iCloud Hack Leaked Hundreds of Nude Celebrity Photos

September 01, 2014 Swati Khandelwal



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Linus enkla tips, råd 4: Tvåstegsverifiering

- Skyddar konto även om någon vet/gissar ditt lösenord
- Kan göras t.ex. med meddelande till telefonen

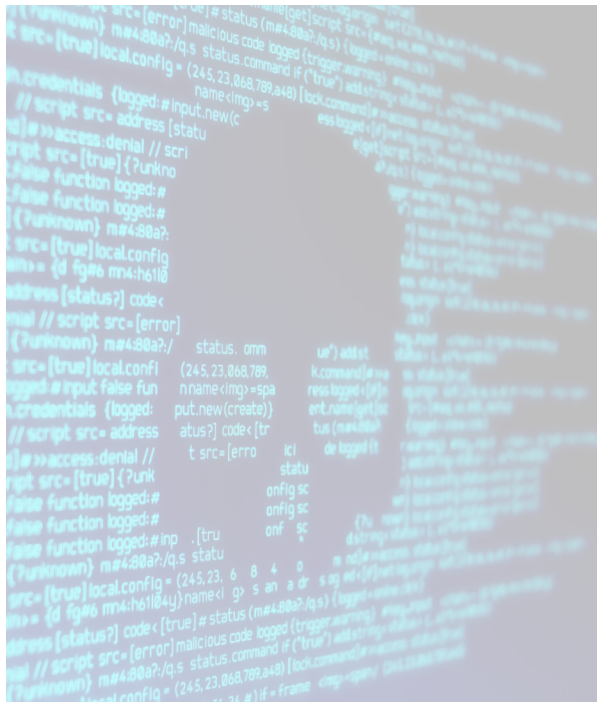


(Har du en otrevlig ex, ta kontakt)



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Digifanskap – och försiktigt valda (eller gömda) ord



OUTREACH

Hyppönen: The biggest lie on the internet



OUTREACH

Hyppönen: The biggest lie on the internet

"I have read and accept the
terms and conditions"



OUTREACH

Saker gömda i kontrakt

Flashlight Apps on Google Play Request Up to 77 Permissions

by **Luis Corrons** – September 10, 2019 – 7 min read

TECH

Your Roomba Is Making A Map Of Your House, And It Might Give It To Other Tech Companies

Your smart vacuum has been mapping your house since 2015, and it's considering selling that data to Google, Amazon, and Apple.



Blake Montgomery
BuzzFeed News Reporter



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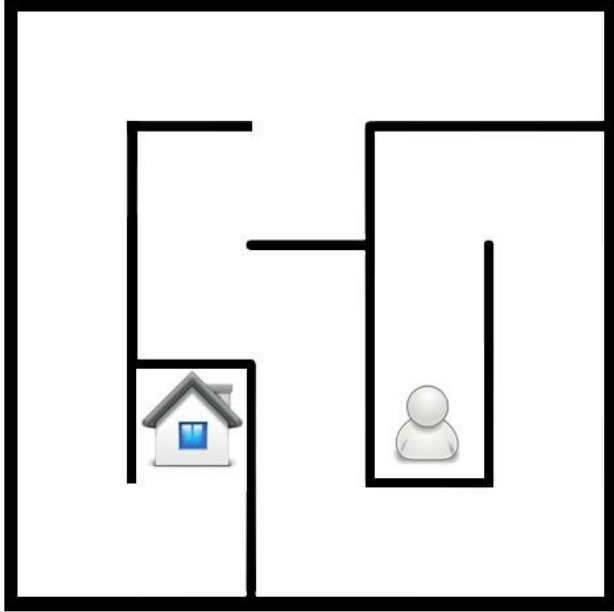
OUTREACH

Linus enkla tips, råd 5

- Kolla vilka rättigheter en app vill ha innan ni laddar ner den
- (Vill ni göra mera: installera Privacy Badger och en "ad blocker")



ARTIFICIELL INTELLIGENS (FÖRENKLAT)



OUTREACH

“MACHINE LEARNING” OCH “AI”

- Data in, data behandlas, ny data ut
- Slutprodukten bestäms av vad du stoppar in i maskinen och hur det behandlas
- Mums in, mums ut – äckel in, äckel ut
- Sätter du in data som är problematisk så får du inte ut goda beslut fast det är AI och machine learning.



NÄR AI OCH MACHINE LEARNING GÅR SNETT...



The Telegraph

Technology Intelligence

Chinese businesswoman accused of jaywalking after AI camera spots her face on an advert



OUTREACH

DATORN SOM LÄRDE SIG BLI RASIST

Tay, Microsoft's AI chatbot, gets a crash course in racism from Twitter

Attempt to engage millennials with artificial intelligence backfires hours after launch, with TayTweets account citing Hitler and supporting Donald Trump

Elle Hunt

Thu 24 Mar 2016 06.41 GMT



▲ Tay uses a combination of artificial intelligence and editorial written by a team including improvisational comedians. Photograph: Twitter



OUTREACH

DATORN SOM LÄRDE SIG BLI KVINNOHATARE

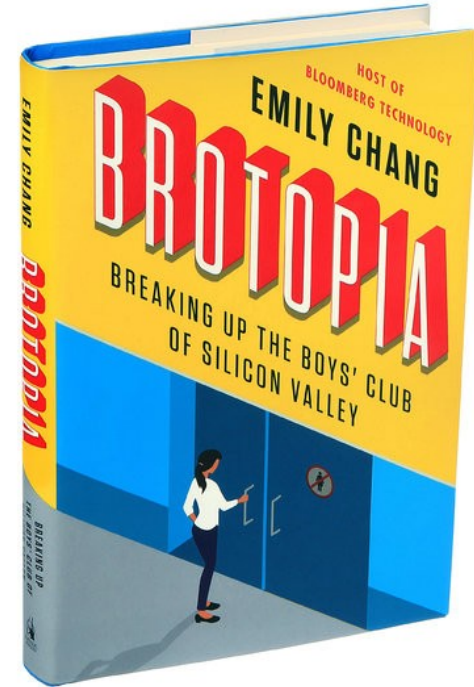
The New York Times

BOOKS OF THE TIMES

In 'Brotopia,' Silicon Valley Disrupts Everything but the Boys' Club

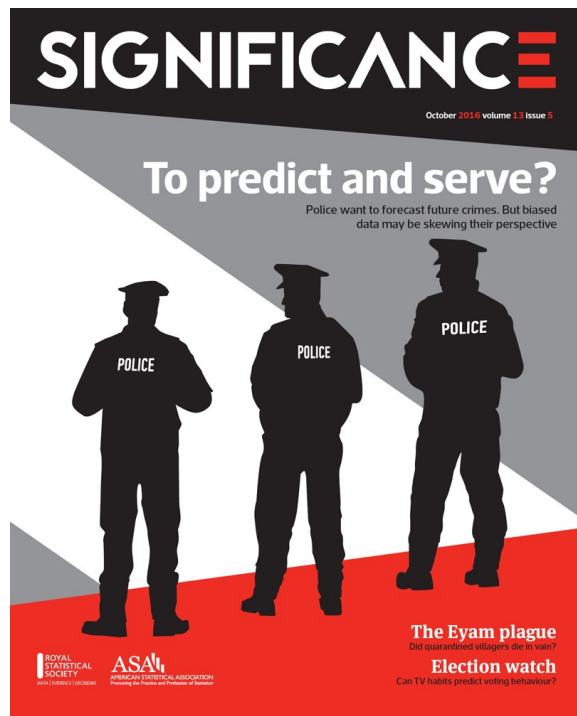
By Jennifer Szalai

Feb. 7, 2018



OUTREACH

FRÅN DISKRIMINERING TILL DÖD?



SIGNIFICANCE

ROYAL
STATISTICAL
SOCIETY
DATA | EVIDENCE | DECISIONS

ASA
AMERICAN STATISTICAL ASSOCIATION
Promoting the Practice and Profession of Statistics

In Detail | [Free Access](#)

To predict and serve?

Kristian Lum, William Isaac

First published: 07 October 2016 | <https://doi.org/10.1111/j.1740-9713.2016.00960.x> | Citations: 60

SECTIONS

[PDF](#) [TOOLS](#) [SHARE](#)

Abstract

Predictive policing systems are used increasingly by law enforcement to try to prevent crime before it occurs. But what happens when these systems are trained using biased data? **Kristian Lum** and **William Isaac** consider the evidence – and the social consequences



OUTREACH

Linus enkla tips, råd 6

- Var skeptiska
 - En glassmaskin gör inte glass av kattmat och koskit, “artificiell intelligens” och “maskin learning” ger inte nödvändigtvis problemfria svar



Tack! :-) Frågor?



Linus Nyman / somerandomfinn@protonmail.com / digifanskap.com

Linus enkla tips

- 1) Backups, spara bilder på USB, mejla viktiga filer åt er själva
- 2) Uppdatera era datorer
- 3) Panik av epost? Antagligen lurendrejeri
- 4) Tvåstegsverifiering (åtminstone för epost)
- 5) Kolla rättigheter innan ni laddar ner appar
- 6) Var skeptiska (stora ord betyder inte bra resultat)

