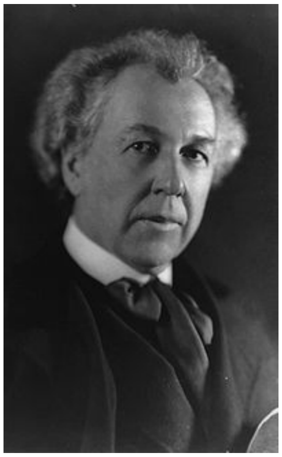
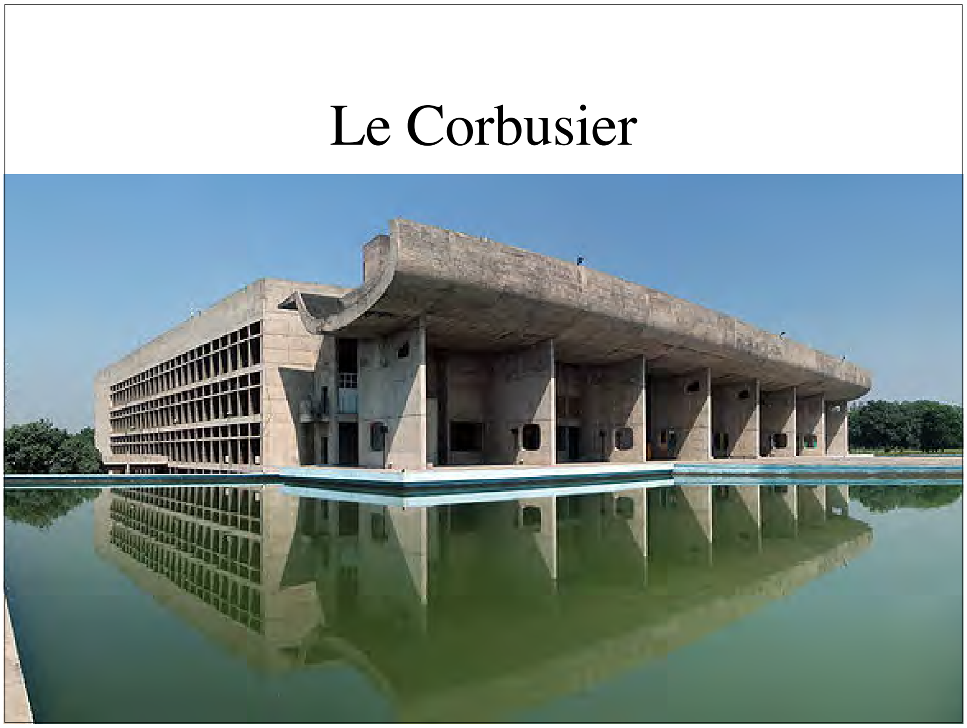
Frank Lloyd Wright was Right

Reflections on Architecture,
Computer Security,
Risk and Investments

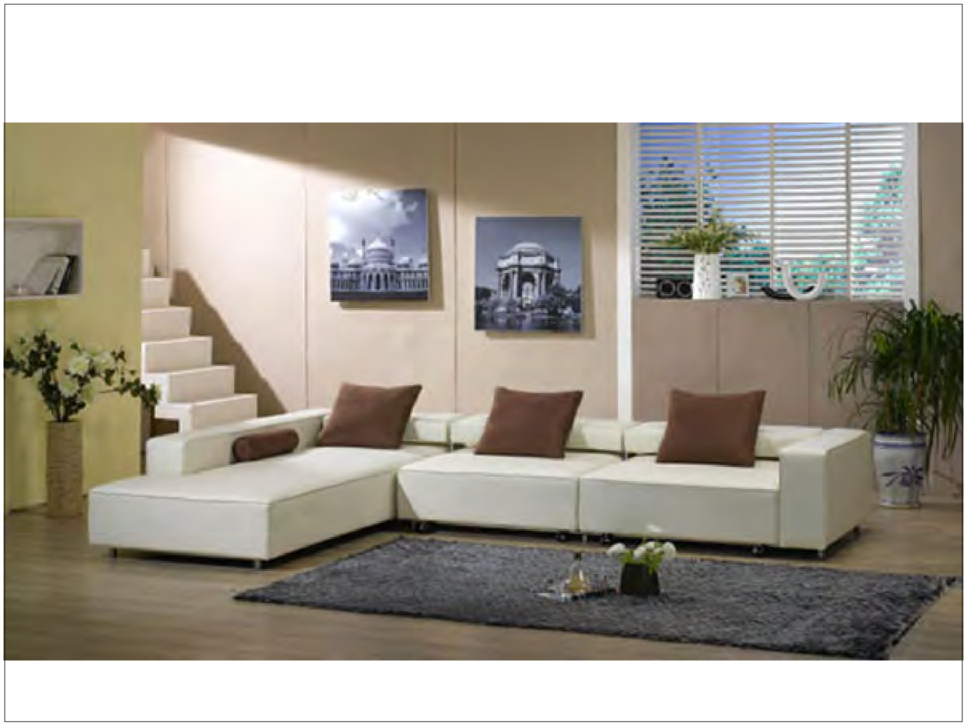
Frank Lloyd Wright (1867-1959)

- Architect
- Curmudgeon
  - BAFH
- High School Dropout
- University Dropout
- Art Dealer, Philanderer, Fraud
- Genius

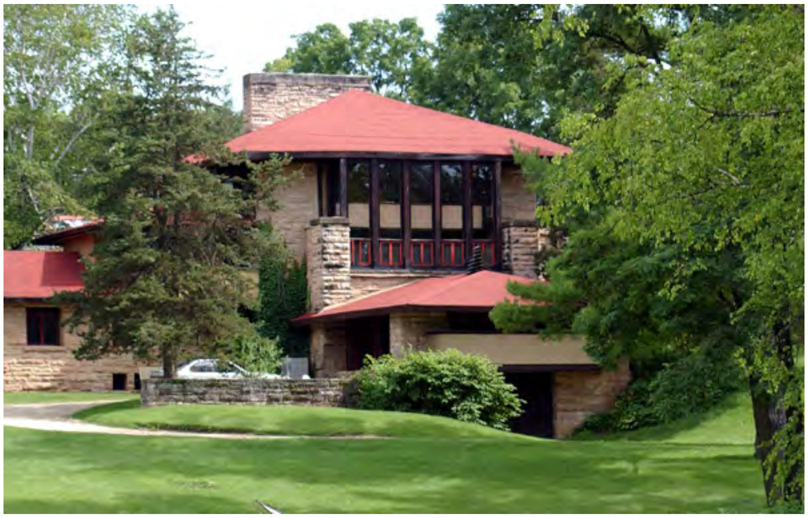




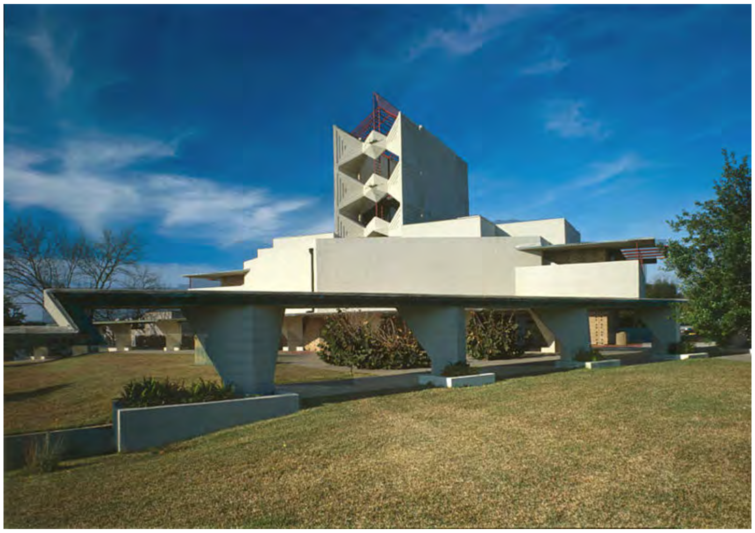
Le Corbusier



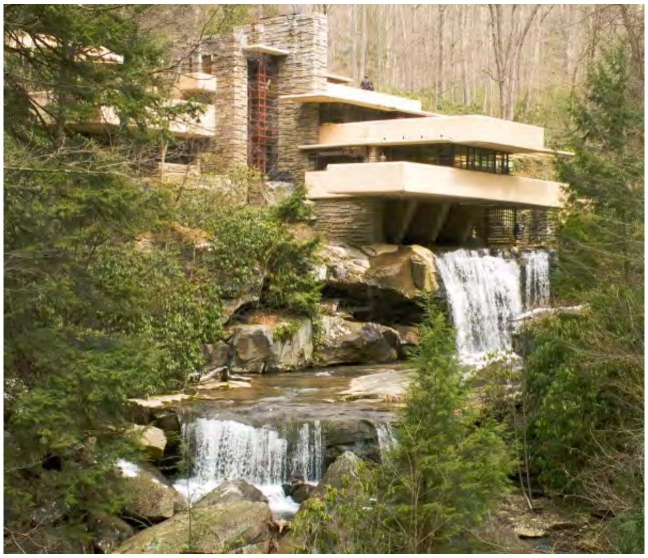
Taliesen (1911)

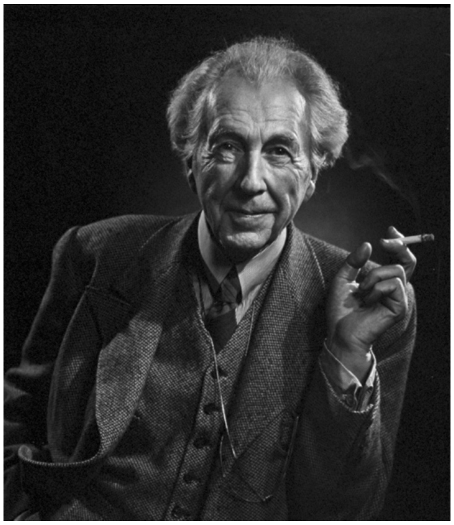


Florida Southern College (1938)



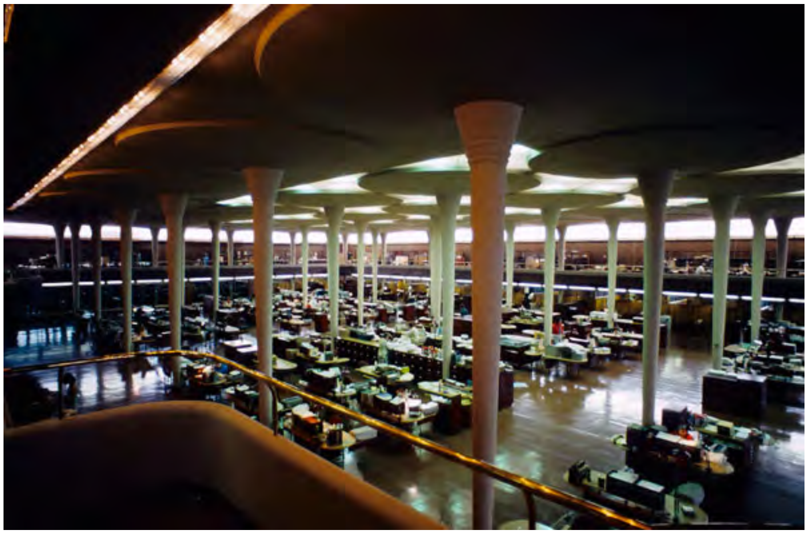
Fallingwater (1934)

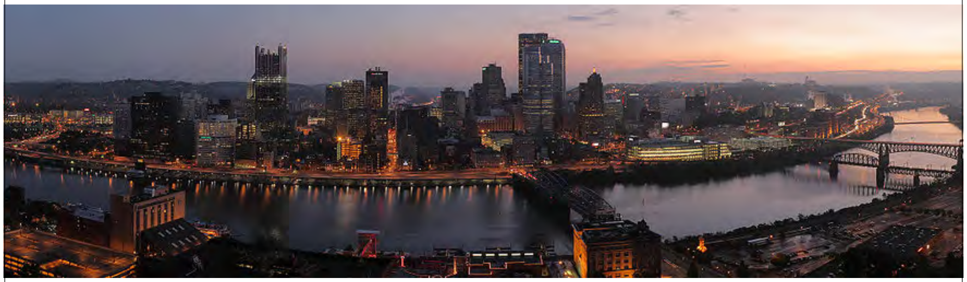




Early in life I had to choose between honest arrogance and hypocritical humility. I chose the former and have seen no reason to change.

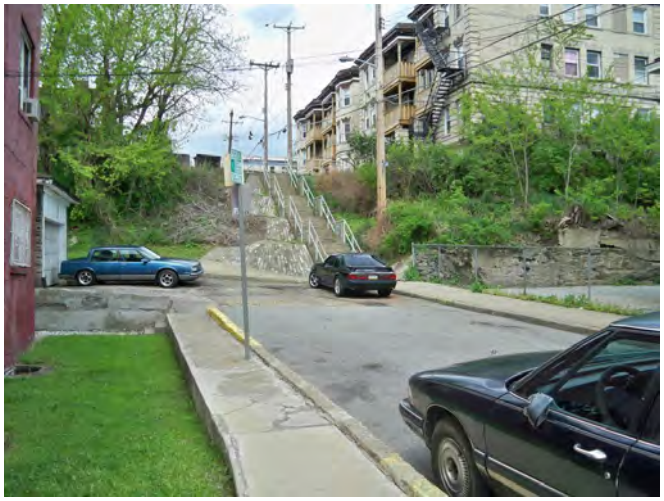
Johnson Wax Headquarters (1939)



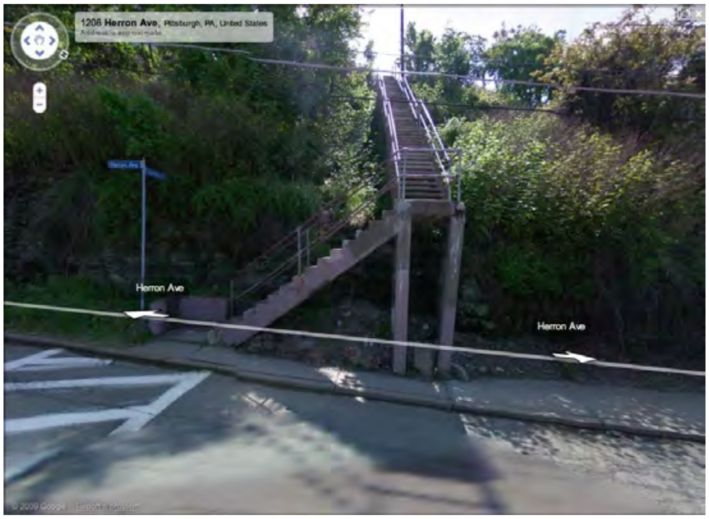


Hell With The Lid Off

Louisa St.



Downing St.


1208 Herron Ave, Pittsburgh, PA, United States
Address is approximate
Herron Ave
Herron Ave
Herron Ave
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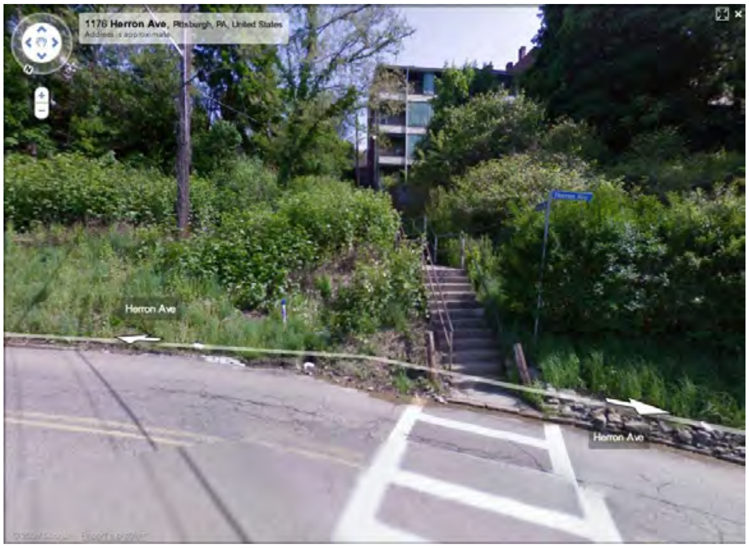
Harding Way


1176 Herron Ave, Pittsburgh, PA, United States
Address is approximate
Herron Ave
Herron Ave
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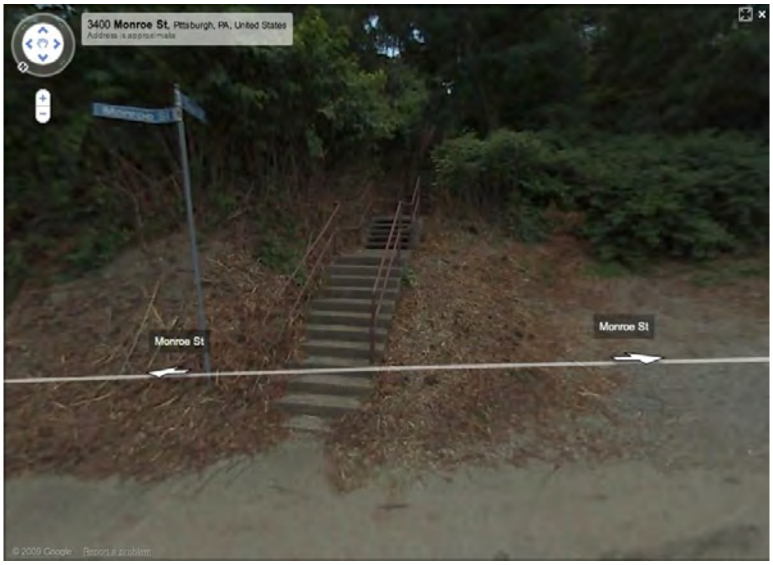
Orion St.


3400 Monroe St, Pittsburgh, PA, United States
Address is approximate
Monroe St
Monroe St
Monroe St
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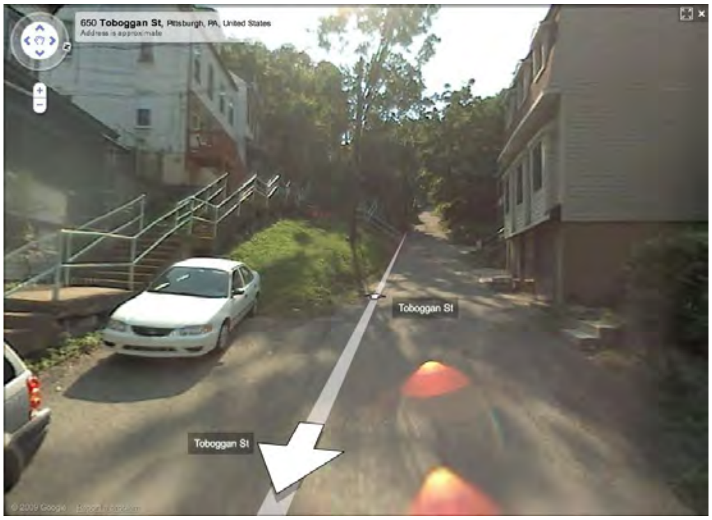
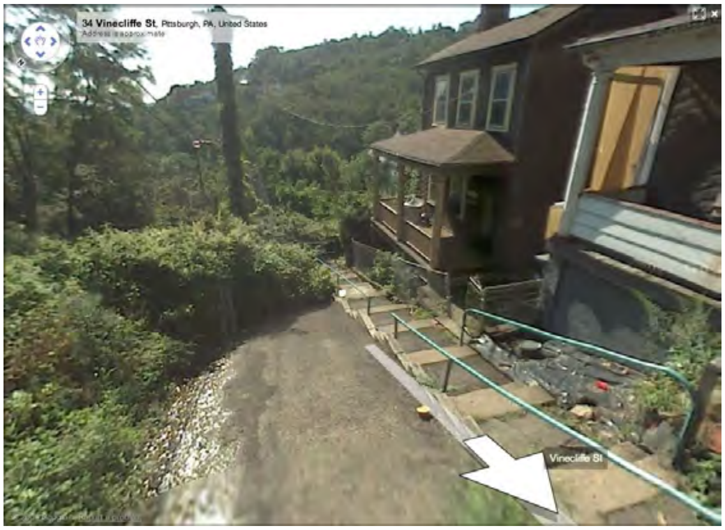
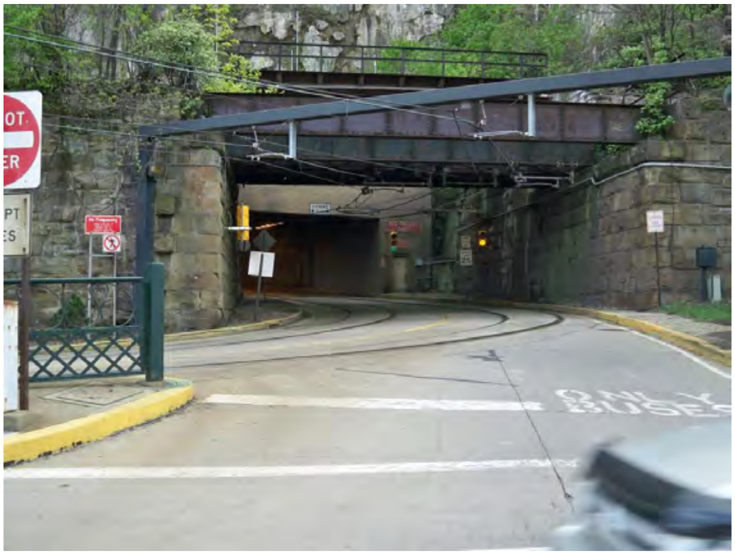
Toboggan St. & Rising Main St.



Vinecliffe St.

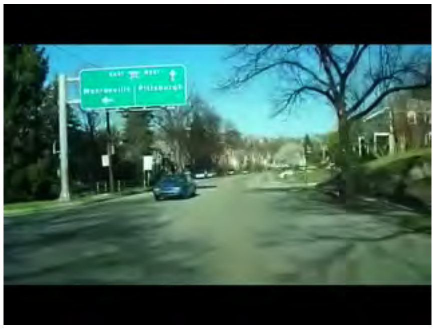


Sycamore St.

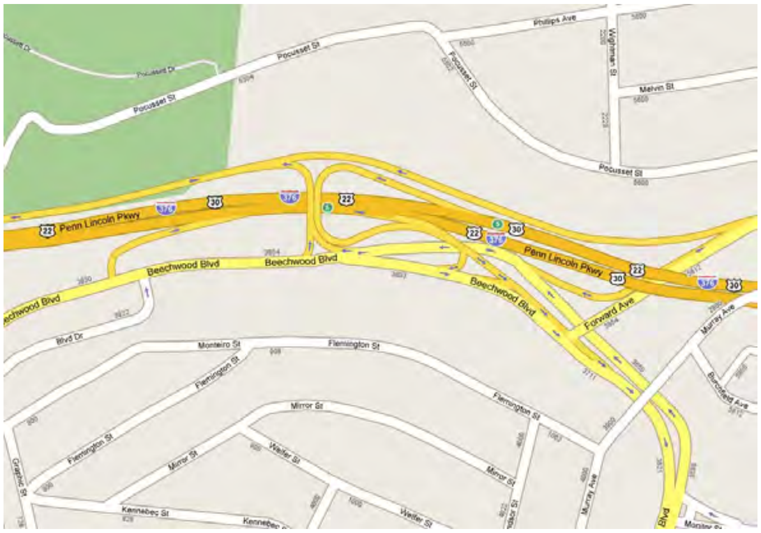


Interstate 376

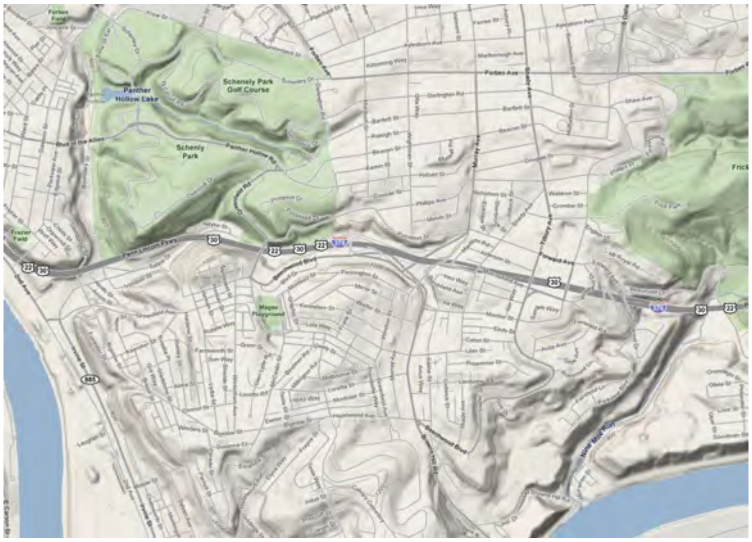
Interstate 376



Interstate 376



Topography



City Fathers: What do you think?

Frank: I liked it better when I couldn’t see it.

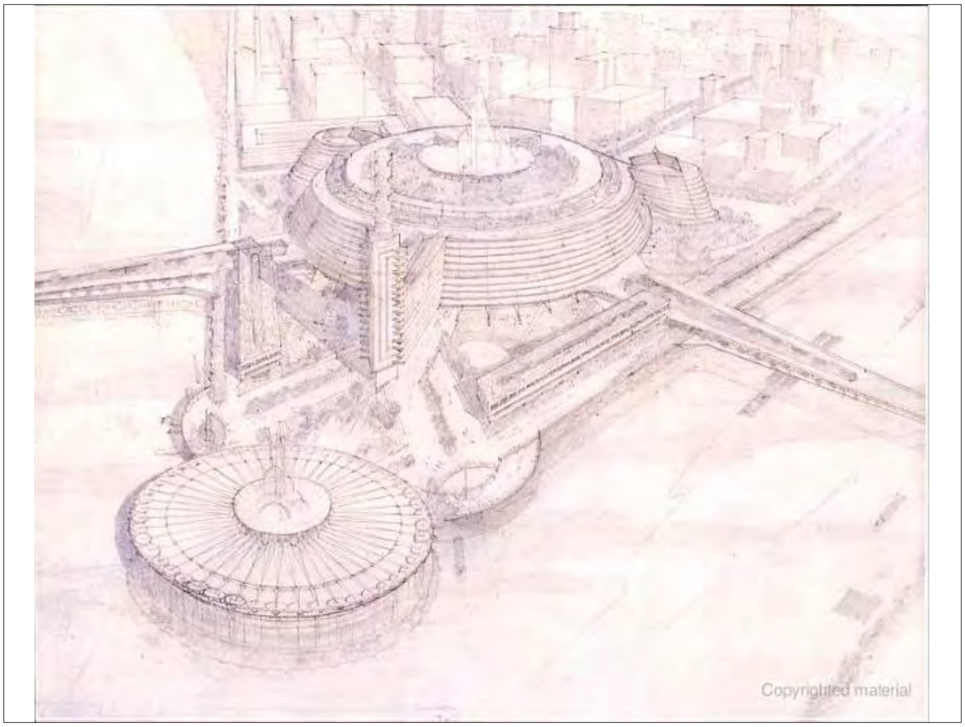
City: Okaaaay… What should we do?

Frank: Raze it and start over!

Raze It and Start Over?

- Never gonna happen
- Too expensive
- Too inconvenient
- They’ll find a way to fix it

- **We’ll never be unemployed**



History

- Frank Lloyd Wright died 50 years ago [1959]

History

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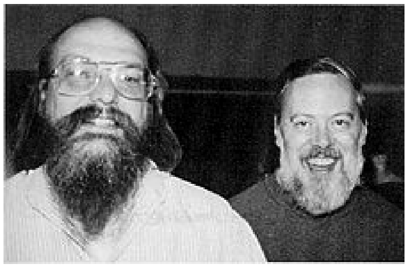
- ARPANet was born 40 years ago [1969]
- Unix created 40 years ago [1969]

NEW ROCHELLE HIGH SCHOOL

IDENTIFICATION CARD

1970-1971

NAME



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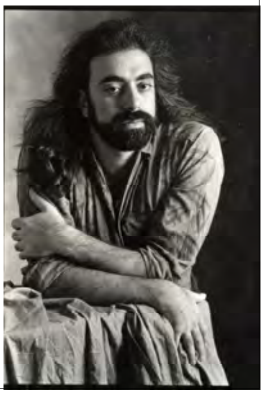

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- Frank Lloyd Wright died 50 years ago [1959]
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- First WWW Conference 15 years ago [1994]
- Linux 1.0 released 15 years ago [1994]
- Thompson & Ritchie: National Medal of Technology [1999]
- Google [1999]
- My mother embraces email 10 years ago [1999]

We’re In Deep Kimchee

- Viruses
- Worms
- Trojans
- Keyloggers
- Botnets
- Phishing
- Phlashing
- Spam
- SQL Injection
- Phone viruses!

- Internet
- Intranet
- LAN
- WAN
- PAN
- Bluetooth
- RFID
- GPRS
- Pacemakers!
- Active Infiltration
- Cyberterrorism

RFID as a Malware Vector

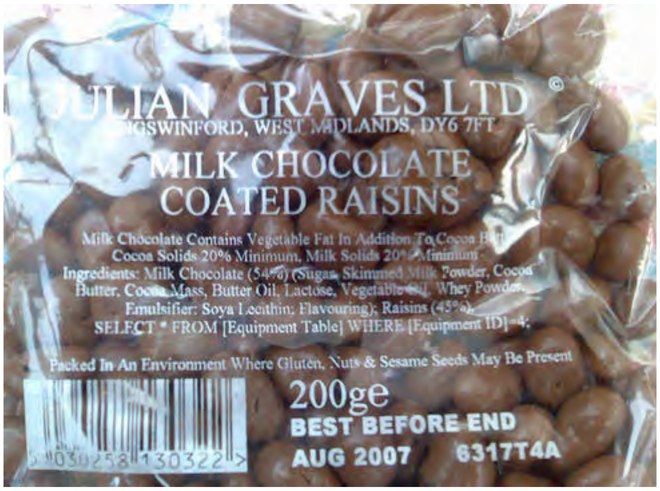
- RFID can spread viruses & worms

  http://www.rfidvirus.org/

- Classic attacks
  - Buffer overflow
  - SQL injection

- My cats have an RFID chip…

Well, that's hard to do, right?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SELECT * FROM [Equipment Table] WHERE [Equipment ID]=4;
Packed In An Environment Where Gluten, Nuts & Sesame Seeds May Be Present
5 030258 130322 >
200g℮
BEST BEFORE END
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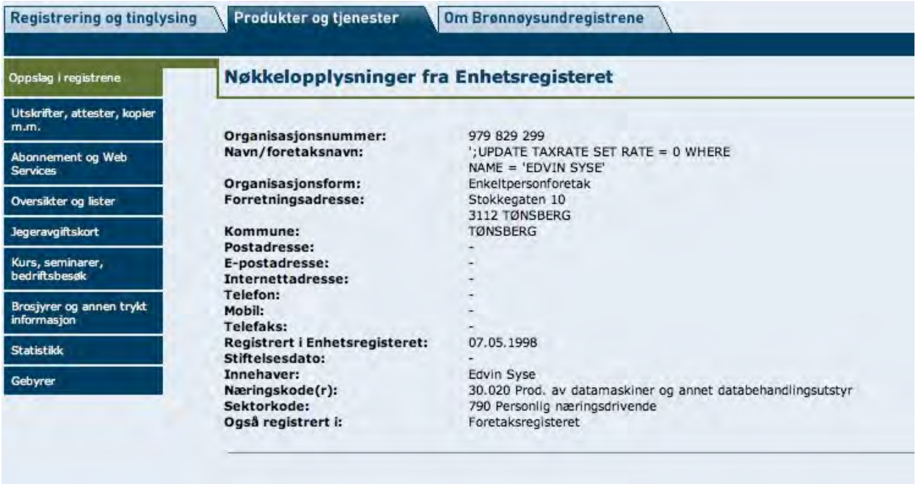

Registrering og tinglysing
Produkter og tjenester
Om Brønnøysundregistrene
Oppslag i registrene
Utskrifter, attester, kopier m.m.
Abonnement og Web Services
Oversikter og lister
Jegeravgiftskort
Kurs, seminarer, bedriftsbesøk
Brosjyrer og annen trykt informasjon
Statistikk
Gebyrer

Nøkkelopplysninger fra Enhetsregisteret

Organisasjonsnummer:	979 829 299
Navn/foretaksnavn:	';UPDATE TAXRATE SET RATE = 0 WHERE NAME = 'EDVIN SYSE'
Organisasjonsform:	Enkeltpersonforetak
Forretningsadresse:	Stokkegaten 10 3112 TØNSBERG
Kommune:	TØNSBERG
Postadresse:	-
E-postadresse:	-
Internettadresse:	-
Telefon:	-
Mobil:	-
Telefaks:	-
Registrert i Enhetsregisteret:	07.05.1998
Stiftelsesdato:	-
Innehaver:	Edvin Syse
Næringskode(r):	30.020 Prod. av datamaskiner og annet databehandlingsutstyr
Sektorkode:	790 Personlig næringsdrivende
Også registrert i:	Foretaksregisteret

RBAC

Where *Am* I?

20 developers
15 timezones

- I have an HTML page
- that was built using SSI → Apache Sandboxes / Auto-recompile
- that has a <FORM>
- the invokes a CGI Query → Session Keys / MVC
- that runs a Perl script
- (that uses **Template::Toolkit**)
- to create an Ajax response → Caching / Selective JS Upload
- (in a frameset)
- that updates a <DIV>
- that invokes some Javascript → jQuery / Dynamically generated
- (with onLoad, of course)
- that triggers an asynchronous timeout event
- that redraws the page by changing the CSS

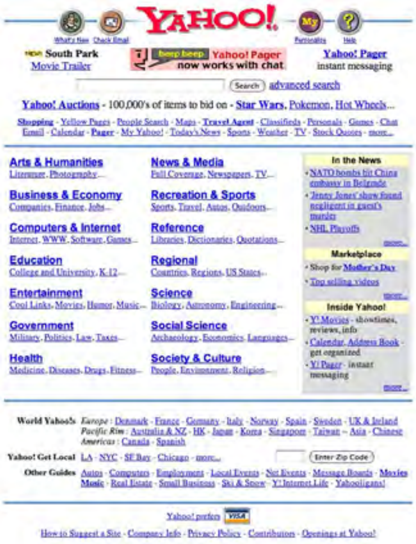
MySQL
Class DBI

dev, test, beta, RFS, stage, demo, prod

We have technological ADD

This is "normal" coding practice

Yahoo 1999



NEW South Park Movie Trailer

Yahoo! Pager now works with chat

Yahoo! Pager instant messaging

advanced search

Yahoo! Auctions - 100,000's of items to bid on - Star Wars, Pokemon, Hot Wheels...

Shopping - Yellow Pages - People Search - Maps - Travel Agent - Classifieds - Personals - Games - Chat
Email - Calendar - Pager - My Yahoo! - Today's News - Sports - Weather - TV - Stock Quotes - more...

Arts & Humanities
Literature, Photography...

News & Media
Full Coverage, Newspapers, TV...

Business & Economy
Companies, Finance, Jobs...

Recreation & Sports
Sports, Travel, Autos, Outdoors...

Computers & Internet
Internet, WWW, Software, Games...

Reference
Libraries, Dictionaries, Quotations...

Education
College and University, K-12...

Regional
Countries, Regions, US States...

Entertainment
Cool Links, Movies, Humor, Music...

Science
Biology, Astronomy, Engineering...

Government
Military, Politics, Law, Taxes...

Social Science
Archaeology, Economics, Languages...

Health
Medicine, Diseases, Drugs, Fitness...

Society & Culture
People, Environment, Religion...

In the News
- NATO bombs hit China embassy in Belgrade
- 'Jenny Jones' show found negligent in guest's murder
- NHL Playoffs

more...

Marketplace
- Shop for Mother's Day
- Top selling videos

more...

Inside Yahoo!
- Y! Movies - showtimes, reviews, info
- Calendar, Address Book - get organized
- Y! Pager - instant messaging

more...

World Yahoo!s *Europe* : Denmark - France - Germany - Italy - Norway - Spain - Sweden - UK & Ireland
Pacific Rim : Australia & NZ - HK - Japan - Korea - Singapore - Taiwan -- Asia - Chinese
Americas : Canada - Spanish

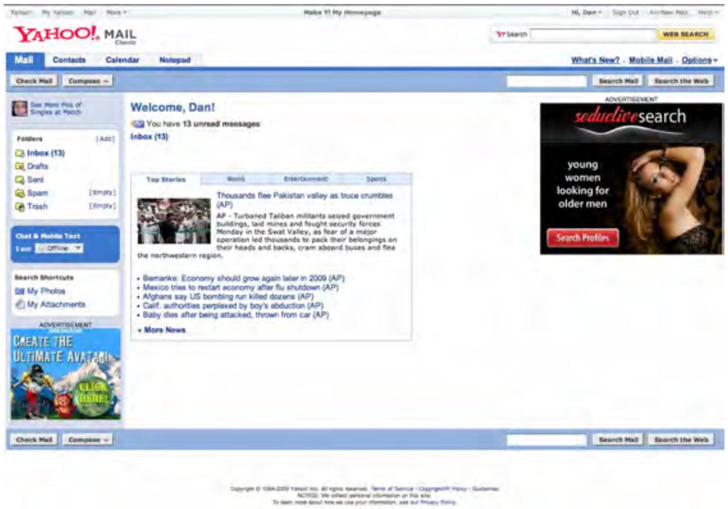
Yahoo! Get Local LA - NYC - SF Bay - Chicago - more...

Other Guides Autos - Computers - Employment - Local Events - Net Events - Message Boards - Movies
Music - Real Estate - Small Business - Ski & Snow - Y! Internet Life - Yahooligans!

Yahoo! prefers VISA

How to Suggest a Site - Company Info - Privacy Policy - Contributors - Openings at Yahoo!

Yahoo 2009



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YAHOO! MAIL Classic

Y! Search WEB SEARCH

Mail Contacts Calendar Notepad What's New? · Mobile Mail · Options ▾

Check Mail Compose ▾ Search Mail Search the Web

See More Pics of Singles at Match

Folders [Add]
- Inbox (13)
- Drafts
- Sent
- Spam [Empty]
- Trash [Empty]

Chat & Mobile Text
I am Offline

Search Shortcuts
- My Photos
- My Attachments

ADVERTISEMENT

Welcome, Dan!

You have **13 unread messages**:
Inbox (13)

Top Stories World Entertainment Sports

Thousands flee Pakistan valley as truce crumbles (AP)

AP - Turbaned Taliban militants seized government buildings, laid mines and fought security forces Monday in the Swat Valley, as fear of a major operation led thousands to pack their belongings on their heads and backs, cram aboard buses and flee the northwestern region.

- Bernanke: Economy should grow again later in 2009 (AP)
- Mexico tries to restart economy after flu shutdown (AP)
- Afghans say US bombing run killed dozens (AP)
- Calif. authorities perplexed by boy's abduction (AP)
- Baby dies after being attacked, thrown from car (AP)

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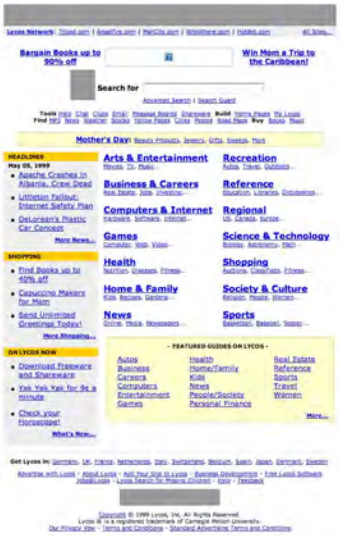
Lycos 1999



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Tools Help Chat Clubs Email Message Boards Shareware **Build** Home Pages My Lycos
Find MP3 News Weather Stocks Yellow Pages Cities People Road Maps **Buy** Books Music

Mother's Day: Beauty Products, Jewelry, Gifts, Sweets, More

HEADLINES
May 05, 1999
- Apache Crashes in Albania, Crew Dead
- Littleton Fallout: Internet Safety Plan
- DeLorean's Plastic Car Concept

More News...

SHOPPING
- Find Books up to 40% off
- Capuccino Makers for Mom
- Send Unlimited Greetings Today!

More Shopping...

ON LYCOS NOW
- Download Freeware and Shareware
- Yak Yak Yak for 9¢ a minute
- Check your Horoscope!

What's New...

Arts & Entertainment
Movies, TV, Music...

Business & Careers
Real Estate, Jobs, Investing...

Computers & Internet
Hardware, Software, Internet...

Games
Computer, Web, Video...

Health
Nutrition, Diseases, Fitness...

Home & Family
Kids, Recipes, Gardens...

News
Online, Media, Newspapers...

Recreation
Autos, Travel, Outdoors...

Reference
Education, Libraries, Dictionaries...

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US, Canada, Europe...

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Shopping
Auctions, Classifieds, Fitness...

Society & Culture
Religion, People, Women...

Sports
Basketball, Baseball, Soccer...

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Entertainment	People/Society	Women
Games	Personal Finance	

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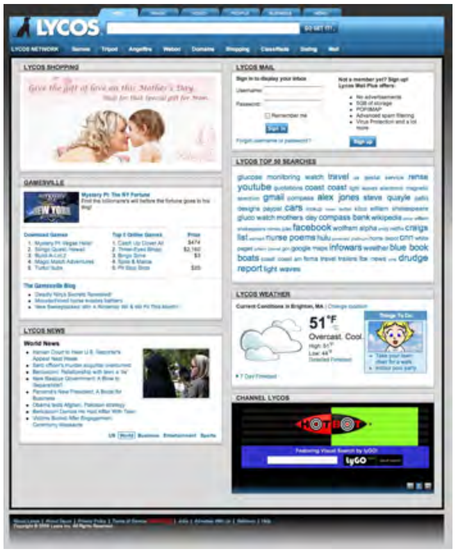
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Give the gift of love on this Mother's Day.
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Sign up
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cars
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google maps infowars weather blue book
boats drudge report light waves
GAMESVILLE
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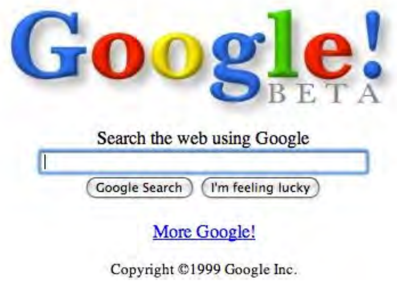
Overcast. Cool.
Things To Do
7 Day Forecast
LYCOS NEWS
World News
US World Business Entertainment Sports
CHANNEL LYCOS
HOTBOT
lyGO

“Form Follows Function”… that has been misunderstood. Form and function should be one, joined in a spiritual union.

Frank Lloyd Wright

Google 1999



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More Google!

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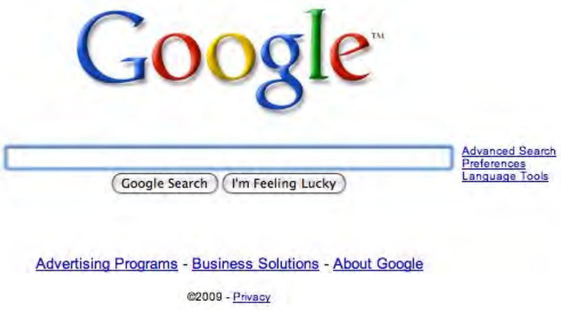

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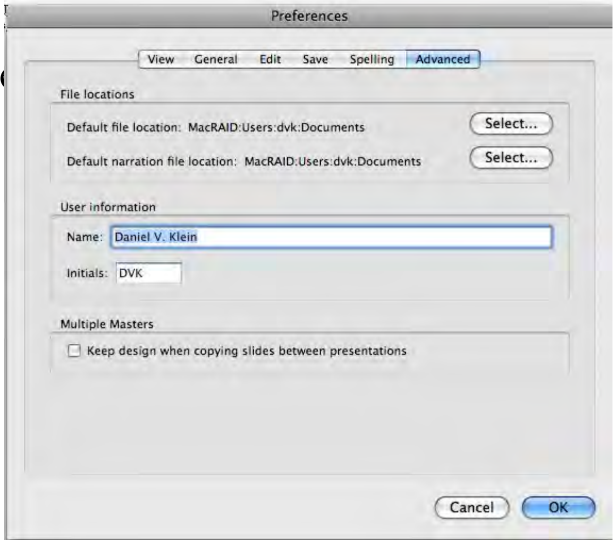
K.I.S.S.

- The United States Internal Revenue Service code is codified in 26 USC
- Tax Exempt Status is defined in Subtitle A, Chapter 1, Subchapter F, Part I, §501, ¶(a)
  - Also called 501(a)
- 501(b) discusses taxation of tax-exempt groups
- 501©1 through 501©28 lists specific criteria
- 501® discusses non-exemption of Communist Controlled organizations

How Can I Fix That?

- Pr



File locations

Default file location: MacRAID:Users:dvk:Documents

Default narration file location: MacRAID:Users:dvk:Documents

User information

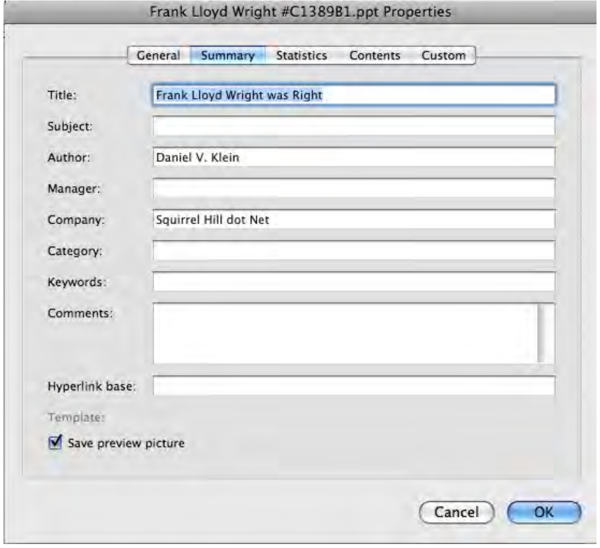
Name: Daniel V. Klein

Initials: DVK

Multiple Masters

□ Keep design when copying slides between presentations

Okay, How Can I Fix That?



Frank Lloyd Wright #C1389B1.ppt Properties

General | Summary | Statistics | Contents | Custom

Title: Frank Lloyd Wright was Right

Subject:

Author: Daniel V. Klein

Manager:

Company: Squirrel Hill dot Net

Category:

Keywords:

Comments:

Hyperlink base:

Template:

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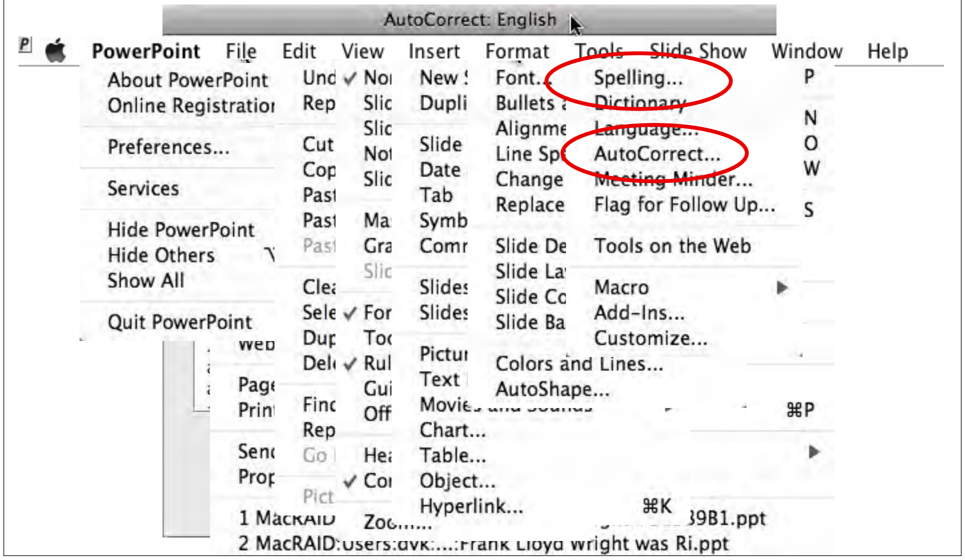
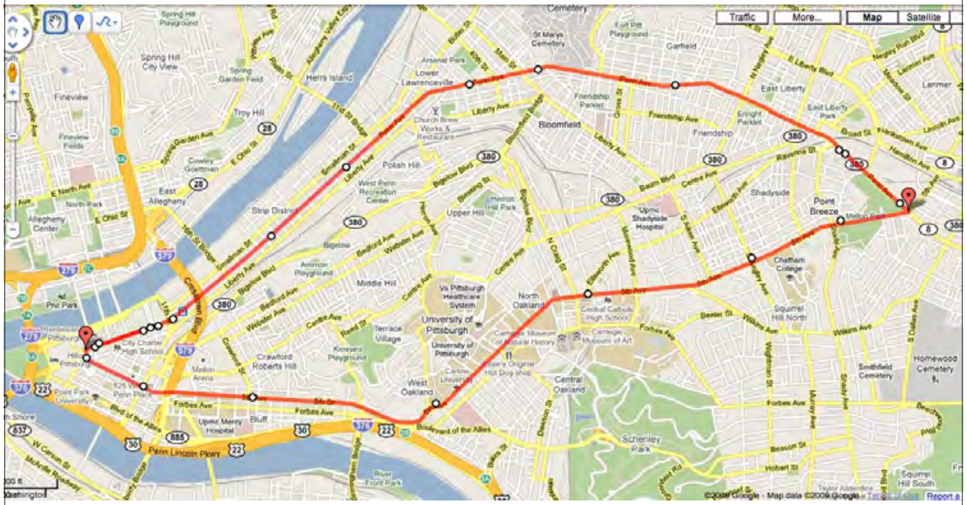
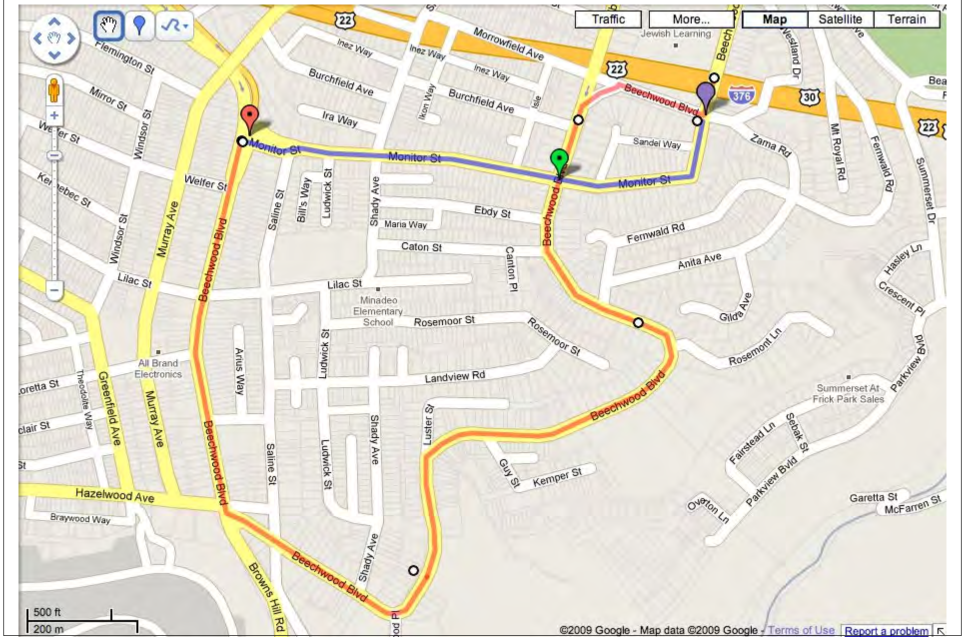
No, Really, I Want to ***Fix That!***



Fifth Ave & Penn Ave



Beechwood Blvd & Monitor St



K.I.S.S.

- Keep It Simple, Stupid

- Keep it Simple for **Security**
- Keep it Simple for **Safety**
- Keep it Simple for **Sanity**

Less is only more
when more is no good.

Frank Lloyd Wright

It’ll only get worse: Moore’s Law

Why does this happen?

Why does *this* happen?

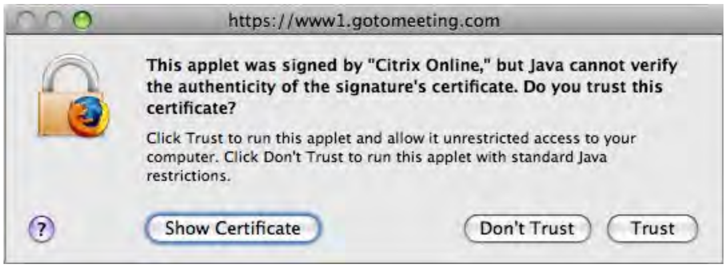
Autorun

- Microsoft will (theoretically) disable it in
  - Windows 7
  - Future versions of Vista and XP

  http://tech.slashdot.org/article.pl?sid=09/04/29/2110241
- About time!
  - Conficker, etc

Beauty is skin deep. Ugly goes clear to the bone.

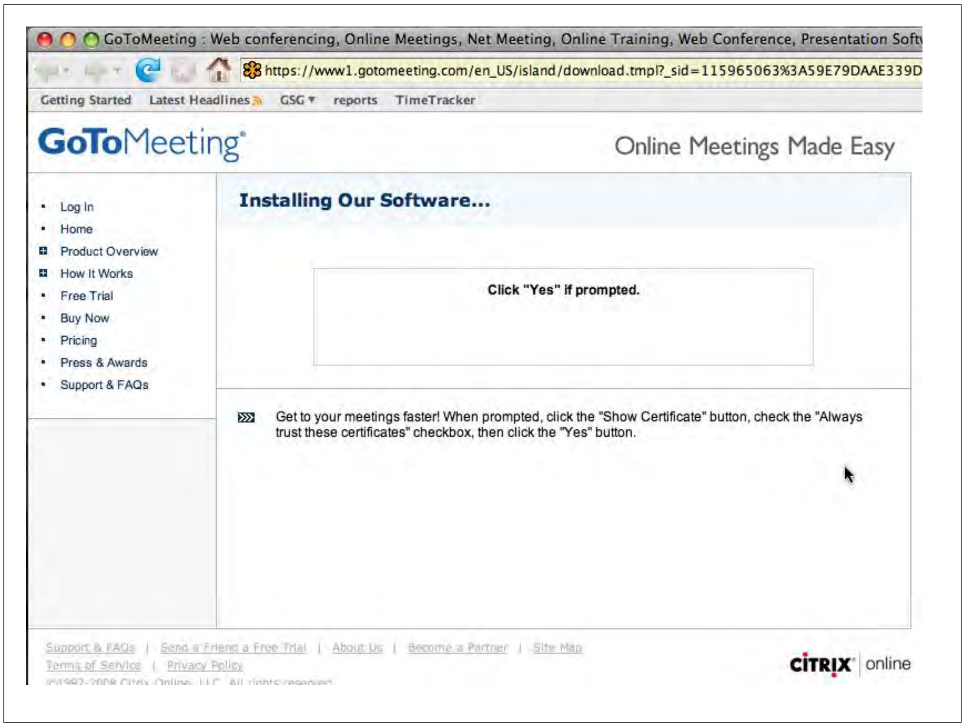
unknown



https://www1.gotomeeting.com

This applet was signed by "Citrix Online," but Java cannot verify the authenticity of the signature's certificate. Do you trust this certificate?

Click Trust to run this applet and allow it unrestricted access to your computer. Click Don't Trust to run this applet with standard Java restrictions.



GoToMeeting : Web conferencing, Online Meetings, Net Meeting, Online Training, Web Conference, Presentation Softw
https://www1.gotomeeting.com/en_US/island/download.tmpl?_sid=115965063%3A59E79DAAE339D
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Installing Our Software...

Click "Yes" if prompted.

Get to your meetings faster! When prompted, click the "Show Certificate" button, check the "Always trust these certificates" checkbox, then click the "Yes" button.

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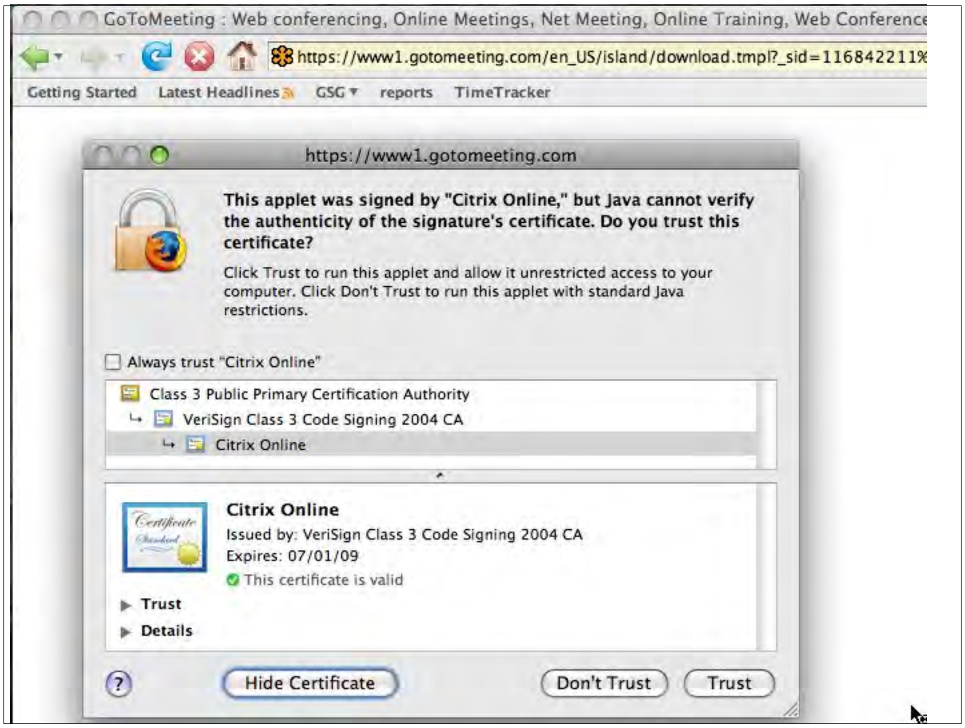

GoToMeeting : Web conferencing, Online Meetings, Net Meeting, Online Training, Web Conference
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Getting Started
Latest Headlines
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TimeTracker
https://www1.gotomeeting.com

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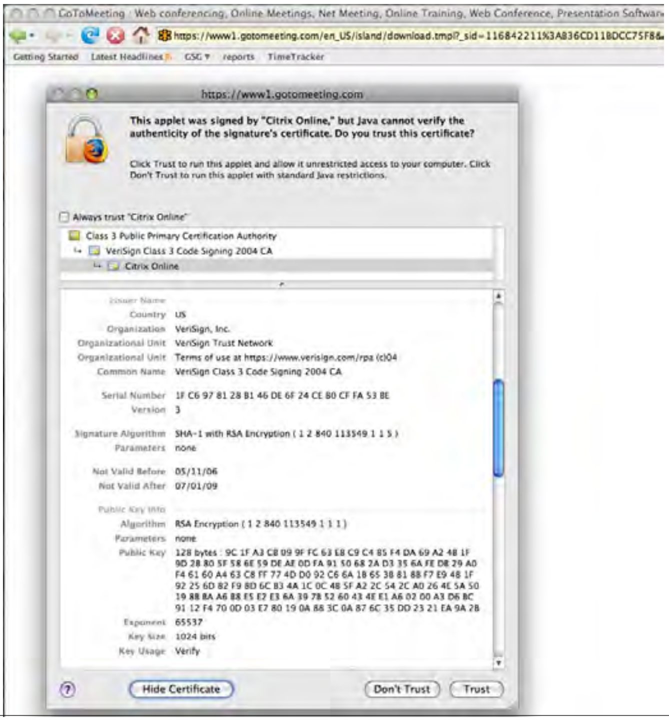
☐ Always trust "Citrix Online"

Class 3 Public Primary Certification Authority
↳ VeriSign Class 3 Code Signing 2004 CA
↳ Citrix Online

Citrix Online
Issued by: VeriSign Class 3 Code Signing 2004 CA
Expires: 07/01/09
✓ This certificate is valid



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https://www1.gotomeeting.com/en_US/island/download.tmpl?_sid=116842211%3A836CD11BDCC75F8&
Getting Started
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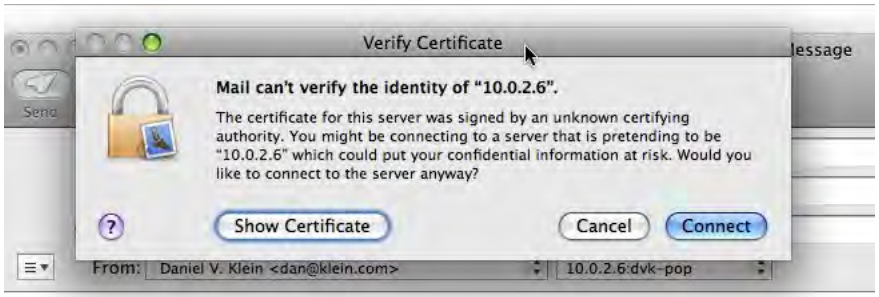
Class 3 Public Primary Certification Authority
↳ VeriSign Class 3 Code Signing 2004 CA
↳ Citrix Online

Issuer Name	
Country	US
Organization	VeriSign, Inc.
Organizational Unit	VeriSign Trust Network
Organizational Unit	Terms of use at https://www.verisign.com/rpa (c)04
Common Name	VeriSign Class 3 Code Signing 2004 CA
Serial Number	1F C6 97 81 28 B1 46 DE 6F 24 CE B0 CF FA 53 BE
Version	3
Signature Algorithm	SHA-1 with RSA Encryption (1 2 840 113549 1 1 5)
Parameters	none
Not Valid Before	05/11/06
Not Valid After	07/01/09
Public Key Info	
Algorithm	RSA Encryption (1 2 840 113549 1 1 1)
Parameters	none
Public Key	128 bytes : 9C 1F A3 C8 09 9F FC 63 E8 C9 C4 85 F4 DA 69 A2 48 1F 9D 28 80 5F 58 6E 59 DE AE 0D FA 91 50 68 2A D3 35 6A FE D8 29 A0 F4 61 60 A4 63 C8 FF 77 4D D0 92 C6 6A 18 65 38 81 88 F7 E9 48 1F 92 25 6D 82 F9 8D 6C B3 4A 1C 0C 48 5F A2 2C 54 2C A0 26 4E 5A 50 19 88 8A A6 88 E5 E2 E3 6A 39 78 52 60 43 4E E1 A6 02 00 A3 D6 BC 91 12 F4 70 0D 03 E7 80 19 0A 88 3C 0A 87 6C 35 DD 23 21 EA 9A 28
Exponent	65537
Key Size	1024 bits
Key Usage	Verify



Mail can't verify the identity of "10.0.2.6".

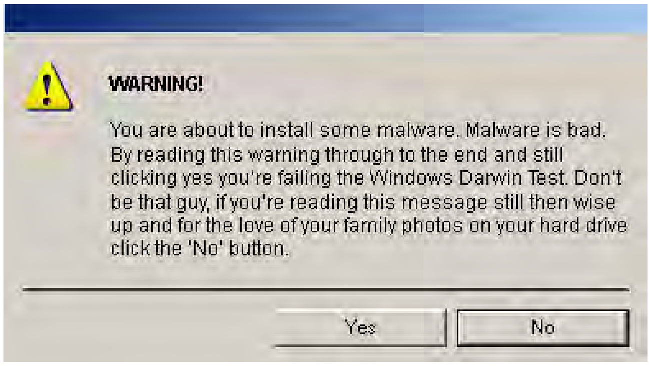
The certificate for this server was signed by an unknown certifying authority. You might be connecting to a server that is pretending to be "10.0.2.6" which could put your confidential information at risk. Would you like to connect to the server anyway?

From: Daniel V. Klein <dan@klein.com>   10.0.2.6:dvk-pop

Most Users are Idiots

http://arstechnica.com/news.ars/post/20080923-study-confirms-users-are-idiots.html

Proceedings of the Human Factors and Ergonomics Society

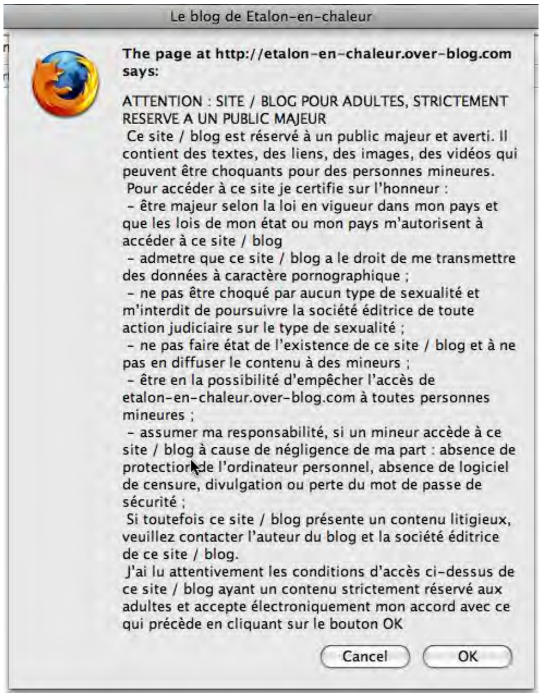


WARNING!

You are about to install some malware. Malware is bad. By reading this warning through to the end and still clicking yes you're failing the Windows Darwin Test. Don't be that guy, if you're reading this message still then wise up and for the love of your family photos on your hard drive click the 'No' button.

So why…

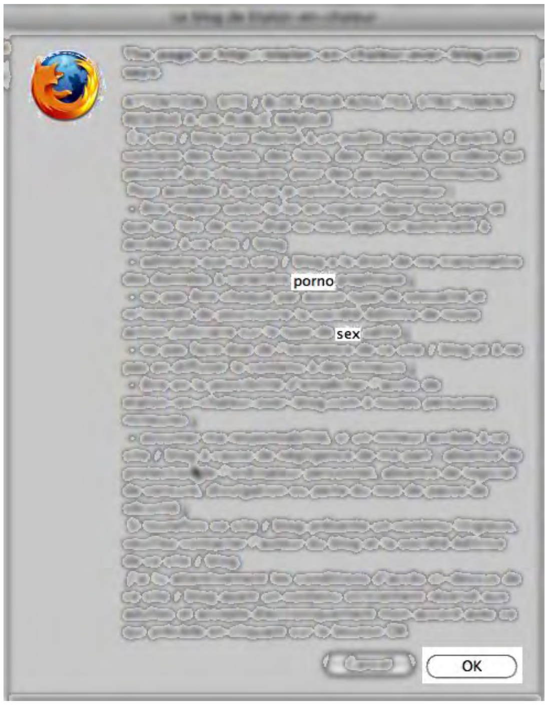
- Do we expect them to understand
  - Authentication?
  - Authorization?
  - Certificates?
  - Certificate Authorities?
- They cannot make informed decisions…
  - But we *require* them to!
- ***WE*** are the problem!



Le blog de Etalon-en-chaleur

The page at http://etalon-en-chaleur.over-blog.com says:

ATTENTION : SITE / BLOG POUR ADULTES, STRICTEMENT RESERVE A UN PUBLIC MAJEUR
Ce site / blog est réservé à un public majeur et averti. Il contient des textes, des liens, des images, des vidéos qui peuvent être choquants pour des personnes mineures.
Pour accéder à ce site je certifie sur l'honneur :
- être majeur selon la loi en vigueur dans mon pays et que les lois de mon état ou mon pays m'autorisent à accéder à ce site / blog
- admetre que ce site / blog a le droit de me transmettre des données à caractère pornographique ;
- ne pas être choqué par aucun type de sexualité et m'interdit de poursuivre la société éditrice de toute action judiciaire sur le type de sexualité ;
- ne pas faire état de l'existence de ce site / blog et à ne pas en diffuser le contenu à des mineurs ;
- être en la possibilité d'empêcher l'accès de etalon-en-chaleur.over-blog.com à toutes personnes mineures ;
- assumer ma responsabilité, si un mineur accède à ce site / blog à cause de négligence de ma part : absence de protection de l'ordinateur personnel, absence de logiciel de censure, divulgation ou perte du mot de passe de sécurité ;
Si toutefois ce site / blog présente un contenu litigieux, veuillez contacter l'auteur du blog et la société éditrice de ce site / blog.
J'ai lu attentivement les conditions d'accès ci-dessus de ce site / blog ayant un contenu strictement réservé aux adultes et accepte électroniquement mon accord avec ce qui précède en cliquant sur le bouton OK

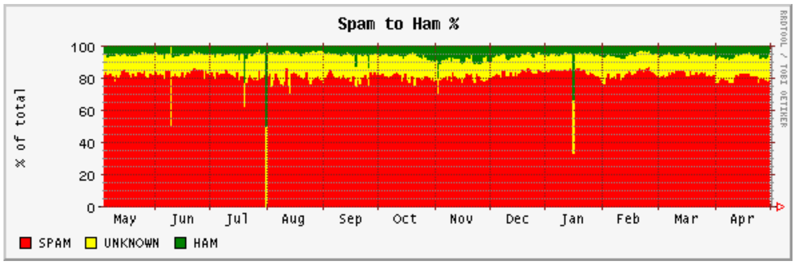


Spam

- 94% (at least) of all email is spam!

  http://bits.blogs.nytimes.com/2009/03/31/spam-back-to-94-of-all-e-mail/

- 97% of *my* email is spam!



62,000,000,000,000

- 62 x 10^{12} spam emails/year
- 33 x 10^{9} KWh

  http://img.en25.com/Web/McAfee/CarbonFootprint_12pg_web_REV_NA.pdf

- What will it take to fix?
- Microsoft, Apple, and Unix/Linux to ***agree*** on a new protocol

NEWS FLASH! Microsoft/Apple/Linux Agree!

The Sorrow and the Pity

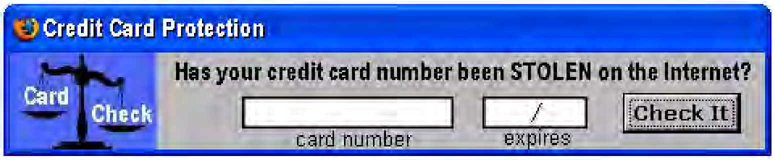
- We get crap because there is no market pressure for the good stuff
  - IPv6
  - DNSSEC
  - Tagged packet support (IPSO *vs*. 802.1Q)
  - Secure wireless
- Market shortsightedness
  - Cheap / fast / good
- We can provide openness *and* security!
  - Have the design account for topography

If I have seen further it is only by standing on the shoulders of giants
–Sir Isaac Newton

Mathematicians stand on each other’s shoulders while computer scientists stand on each other’s toes
–Richard Hamming

Users Don’t See As Far…

…because they stand in the footprints of giants!



Credit Card Protection

Has your credit card number been STOLEN on the Internet?

Date: Mon, 08 Sep 2008 14:02:50 +0100
From: ROBERT SWAN MUELLER III <onlinnne12135@earthlink.net>
Subject: FEDERAL BUREAU OF INVESTIGATION FBI.

FEDERAL BUREAU OF INVESTIGATION FBI.WASHINGTON DC.
WASHINGTON D.C ROOM, 7367
J. EDGAR HOOVER FBI BUILDING
935 PENNSYLVANIA AVENUE,
NW WASHINGTON, DC 20535,

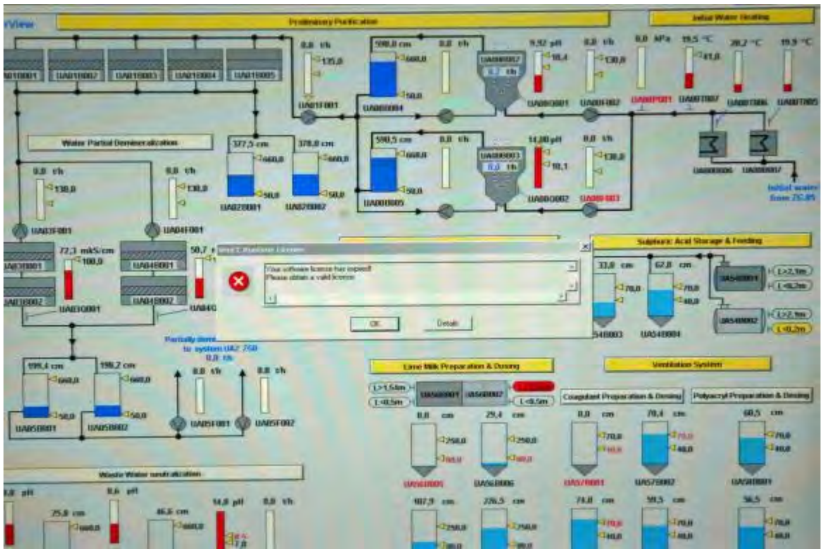
RE: FEDERAL BUREAU OF INVESTIGATION SEEKING TO WIRETAP THE INTERNET

We believe this notification meets you in a very good state of mind and health. We the Federal bureau of investigation (FBI) Washington, DC in conjunction with Internet Crime Complaint Center (IC3), National White Collar Crime Center (NW 3C), Bureau of Justice Assistance (BJA) and some other relevant Investigation Agencies here in the United States of America have recently been informed through our Global intelligence monitoring network that you presently have a transaction going on with the Central Bank of Nigeria (CBN) as regards your over-due contract payment which was fully endorsed in your favour accordingly.

It might interest you to know that we have taken out time in screening through this project as stipulated on our protocol of operation and have finally confirmed that your contract payment is 100% genuine and hitch free from all facet and of which you have the lawful right to claim your payment without further delay. Having said all these we will further advise that you go ahead in dealing with the Central Bank office accordingly as we will be monitoring all their activities with you as well as your correspondence at all level. Also be informed that we recently had a meeting with the Executive Governor of the Central Bank of Nigeria, in the person of Prof. Chukwuma Soludo along with some of the top officials of the Ministry regarding your case and they made us understand that your file has been held in abase depending on when you personally come for the claim.

They also told us that the only problem they are facing right now is that some unscrupulous elements are using this project as an avenue to Scam innocent people off their hard earned money by impersonating the Executive Governor and the Central Bank office.

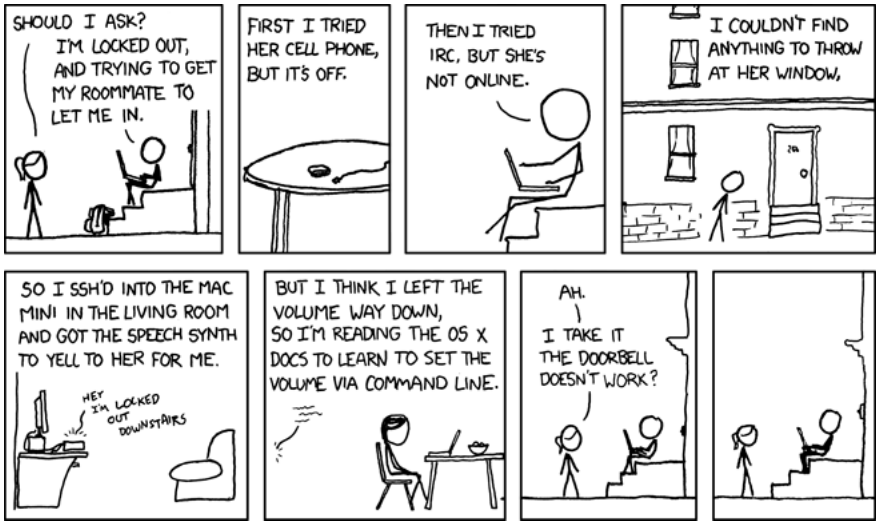
We were also made to understand that a lady with name Mrs. Joan C.Bailey from OHIO has already contacted them and also presented to them all the necessary documentations evidencing your claim purported to have been signed personally by you prior to the release of your contract fund valued at about US$10,700,000.00 (Ten million Seven Hundred Thousand United States Dollars), but the Central Bank office did the wise thing by insisting on hearing from you personally before they go ahead on wiring your fund to the Bank's information which was forwarded to them by the above named Lady, so that was the main reason why they contacted us so as to assist them in making the investigations.


Preliminary Purification
Initial Water Heating
Water Partial Demineralization
Sulphuric Acid Storage & Feeding
Lime Milk Preparation & Dosing
Ventilation System
Coagulant Preparation & Dosing
Polyacryl Preparation & Dosing
Waste Water neutralization
OK
Detail

Your software licence has expired!
Please obtain a valid licence.

http://www.upi.com/News_Photos/Features/Nuclear_Power_Plant_in_Iran/1581/2/

Missing the obvious…


SHOULD I ASK?
I'M LOCKED OUT, AND TRYING TO GET MY ROOMMATE TO LET ME IN.
FIRST I TRIED HER CELL PHONE, BUT IT'S OFF.
THEN I TRIED IRC, BUT SHE'S NOT ONLINE.
I COULDN'T FIND ANYTHING TO THROW AT HER WINDOW,
SO I SSH'D INTO THE MAC MINI IN THE LIVING ROOM AND GOT THE SPEECH SYNTH TO YELL TO HER FOR ME.
HEY I'M LOCKED OUT DOWNSTAIRS
BUT I THINK I LEFT THE VOLUME WAY DOWN, SO I'M READING THE OS X DOCS TO LEARN TO SET THE VOLUME VIA COMMAND LINE.
AH.
I TAKE IT THE DOORBELL DOESN'T WORK?

http://xkcd.com/530/

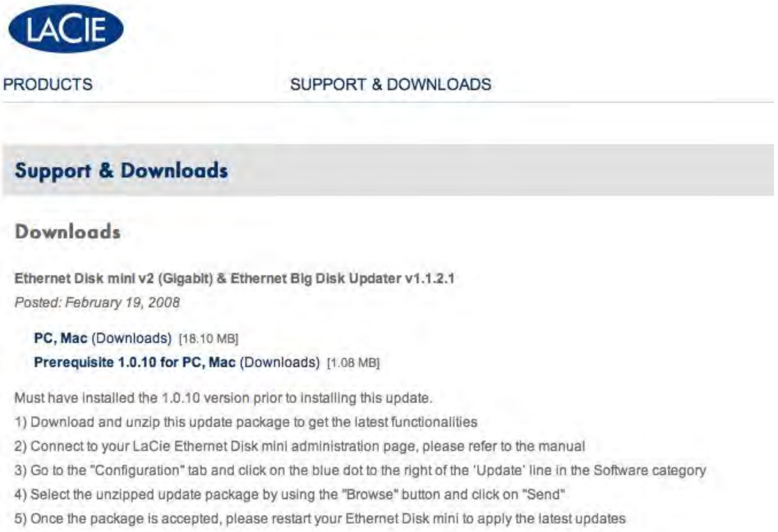
Easy targets, sacred cows

- Windows 7
  - Vulnerable to first 8/10 wild viruses

  http://tech.slashdot.org/story/09/11/03/2123258/
- Null pointer dereference bug grants root
  - Fixed this week in 2.6.32rc
  - RHEL doesn't have mmap_min_addr quick fix

  http://www.theregister.co.uk/2009/11/03/linux_kernel_vulnerability

Why Is This *Still* Happening?



Support & Downloads

Downloads

Ethernet Disk mini v2 (Gigabit) & Ethernet Big Disk Updater v1.1.2.1

Posted: February 19, 2008

PC, Mac (Downloads) [18.10 MB]
Prerequisite 1.0.10 for PC, Mac (Downloads) [1.08 MB]

Must have installed the 1.0.10 version prior to installing this update.
1) Download and unzip this update package to get the latest functionalities
2) Connect to your LaCie Ethernet Disk mini administration page, please refer to the manual
3) Go to the "Configuration" tab and click on the blue dot to the right of the 'Update' line in the Software category
4) Select the unzipped update package by using the "Browse" button and click on "Send"
5) Once the package is accepted, please restart your Ethernet Disk mini to apply the latest updates

Why are there…

- Wireless routers w/default SSID and password?
- Administrative accounts with no password?
- People on the net using Windows 98?

- Why are we the burial society?
- Why aren't we like the CDC?

GPS Enabled Asthma Inhalers

- Great Idea!
  - Prevent asthma attacks through correlation
  - http://i.gizmodo.com/5207511/
- Can be used maliciously, too…

We have FAILED at our job…

…by misinterpreting what our job is!

We Can See The Problem!

Are We Willing to See the Solution?

Or do we just want Security Job Security?

A physician can bury his mistakes,
but the architect can only advise
his clients to plant vines.
Frank Lloyd Wright

We Are Planting Ivy

- **P**atches
- **H**acks
- **B**ackwards compatibility
- Revisions
- Bug-for-bug compliance
- Pretty graphics!
- Flash animation!
- *Clippy!*

Pictures deface walls oftener than they decorate them.

--Frank Lloyd Wright

Raze It and Start Over?

- Never gonna happen
- Too expensive
- Too inconvenient
- They’ll find a way to fix it

- **We’ll never be unemployed**

Y Gwir yn Erbyn y Byd

The Truth Against the World

Or we can change jobs…

- Switch from reactive…
  - to proactive
- From neutral…
  - to advocatory
- Or it will all fall down…
  - it is already happening!

CitiGroup Center (NYC)

Hacks are Bad

- Replace welded joints with bolts
  - Cheaper
  - Quicker
- Building might collapse in hurricane winds
  - Every 55 years on average
  - Every 16 years, if tuned mass damper failed
- Newspaper strikes are “good”
  - Repair work done in secret
  - Hurricane Ella veered away with hours to spare

Examples

- Write it right!
  - *NASA does it…*
- Apolitical improvements to email
  - *Refuse to interface w/old protocol after 3-5 years*
- Proper security decisions by software
  - *Take the stupid human out of the loop*
  - *Quarantine infected machines*

Examples

- Refuse to allow users to be stupid
  - *No bad passwords*
  - *Start with good configurations*
- Alter the market pressure
  - *Embarrass the purveyors of crap*
  - *Tout (or push for!) the good solutions*

There *are* precedents!

- The Big Stink ➟ London Sewers (1850’s)
- B&W ➟ Color TV in Europe
- Analog ➟ Digital TV in US/Australia
- NCP ➟ TCP (ARPAnet ➟ Internet)
- A big mess ➟ The Big Dig (Boston)
- Sydney Harbor Bridge

- Problems/solutions are not purely technical

The thing always happens that you really believe in; and the belief in a thing makes it happen

--Frank Lloyd Wright

Frank Lloyd Wright was Right

Reflections on Architecture,
Computer Security,
Risk and Investments