

THE GOOD & EVIL OF THE INTERNET AND WHY YOU SHOULD KNOW ABOUT THEM

WEEK 2

OLLI WINTER 2020 COURSES

Mondays, January 27—March 2


- 9:30—11:30 a.m.
- @Cooperage

Dr. Farid Farahmand




How **THE INTERNET** Works *In Five Minutes*

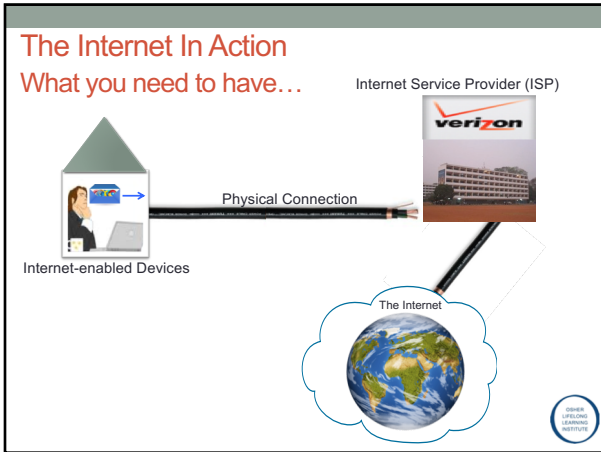
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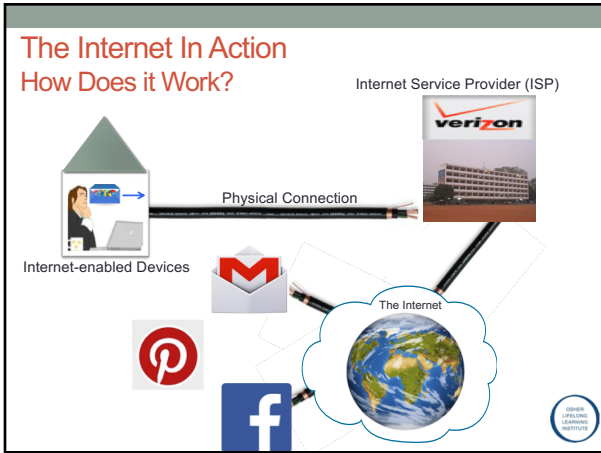


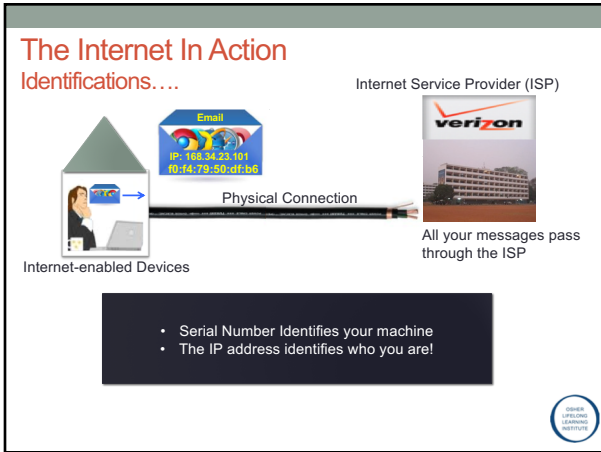
Getting Connected....

- Internet Device (e.g., computer or cell phone)
 - Each device has a unique hardware address (called MAC address)
 - My phone Wi-Fi MAC: **18:87:00:bf:99:0f**
 - My MacBook: **f0:f4:79:50:df:b6**
- Internet Service Provider (ISP)
 - Examples: AT&T, Verizon, Netzero, etc.
 - They provide IP (Internet Protocol) address (e.g., **168.34.23.101**)
 - Also offer services such as email, web page, etc.
- Physical Connection (e.g., cable or phone)
 - Provided by the phone company or the ISP

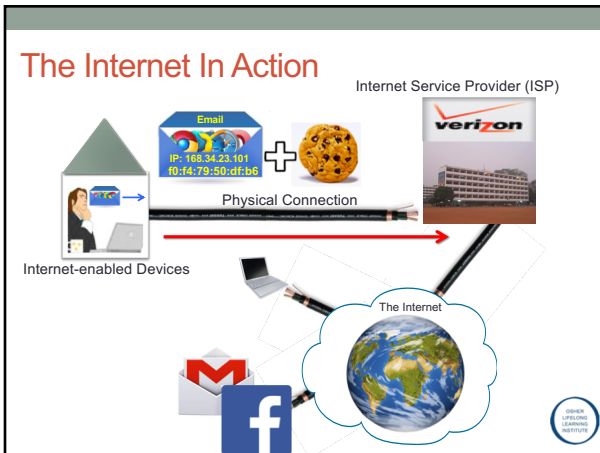




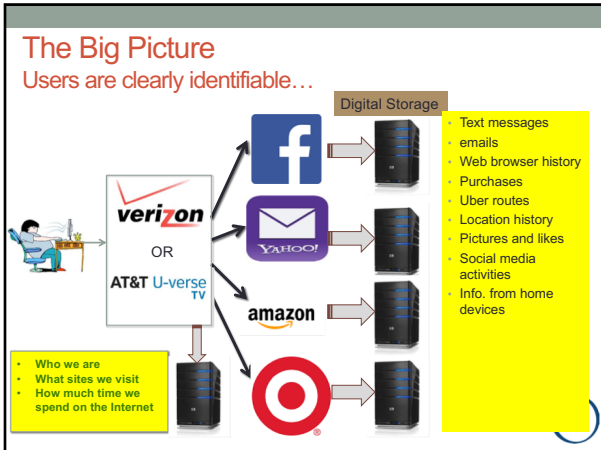


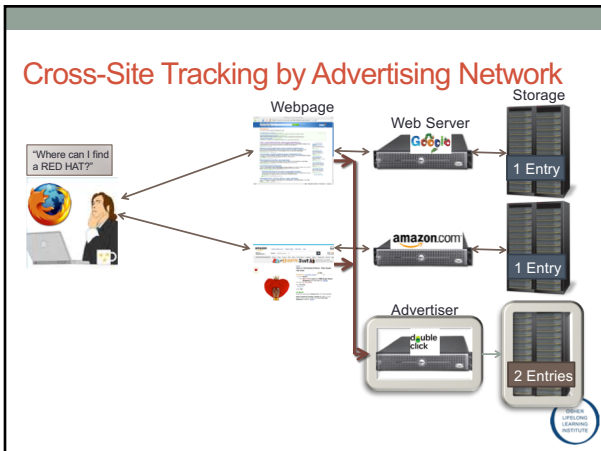


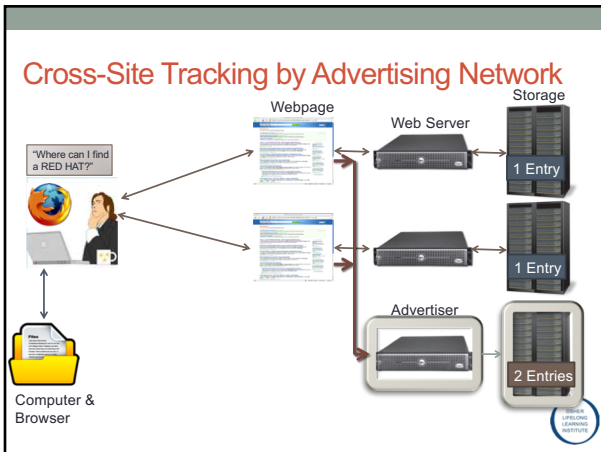


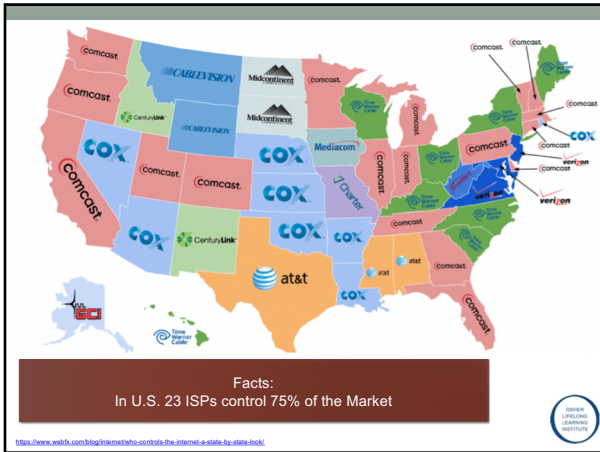












What type of information we give away when we use the Internet

What is your IP Address?

My IP Information

Fast IP Scanner
Scan All IP Addresses in Your Network

Your IPv6 Address is:
2601:645:402:4490:fd8b:79d3:62c3:acc9

Your IPv4 is: 73.202.123.129

Tracking Your Cell Phone

- Following September 11, the federal government mandated that by the end of 2005, all cell phones must include the capability of being traced within 100 meters
- Advantages
 - Alzheimer patients
 - Child abduction
 - Marital tracking
- Disadvantages
 - Government spying
 - Lack of adult privacy



Cell Phone Tracking



Track any Phone.....

<https://www.peoplefinders.com/phone/>

Unlock Phone Report

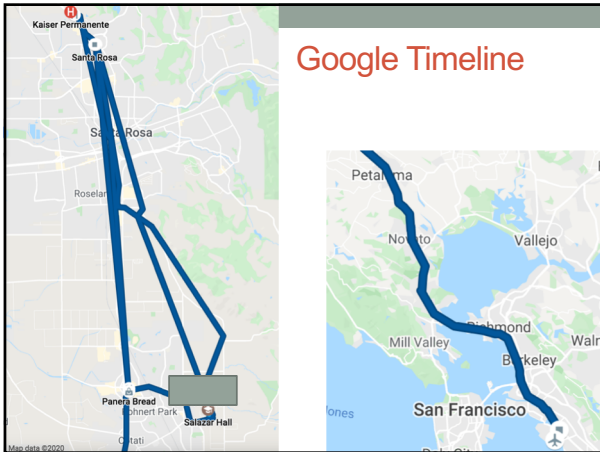
Reverse Phone Reports include:

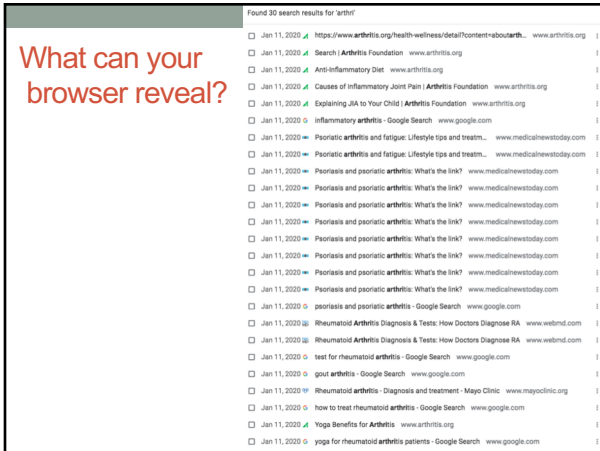
- Current and Past Contact Info
- Reverse Phone Lookups
- Addresses and Phone Numbers
- AKAs, Age / Birth Month & Year
- Relatives and Associates

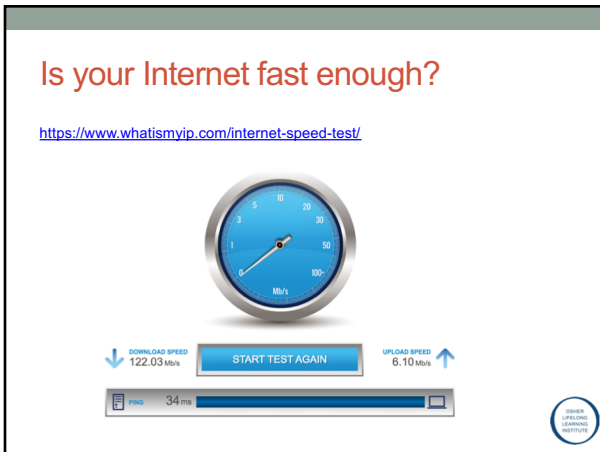
Special Offer with PeopleFinders Trial Membership*

BEST DEAL
Special Offer
\$0.95




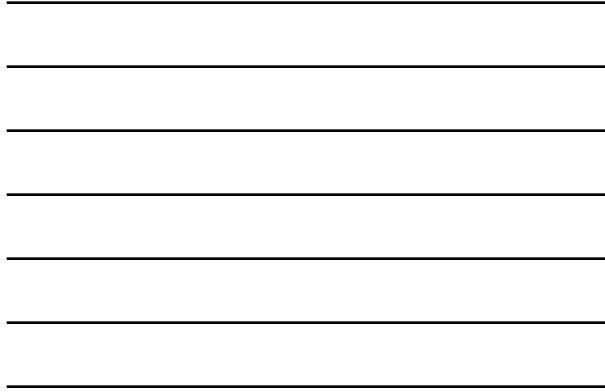






AOL Scandal (www.aolscandale.com)

- On August 4, 2006, AOL Research released a compressed text file on one of its websites
- The file contained twenty million search keywords for over 650,000 users over a 3-month period
- The file was intended for research purposes
- AOL pulled the file from public access by the 7th

So How Much Information Do We Reveal?

AOL user #3558174 searched for:

Keyword	Found site
las vegas discounts	www.tripreservations.com
compare best travel deals las vegas	compasairfare.1x16.org
las vegas entertainment	www.sunfinder-vacations.com
sick feeling in body	www.cancerhelp.org.uk
burning pains in the body	www.wrongdiagnosis.com
low energy	thyroid.about.com
writing letter	esi.about.com
writing a finance letter to customers	www.amazon.com
travel discounts	www.traveldiscounts.com
uc davis cancer treatment center	cancer.ucdmc.ucdavis.edu
uc davis medical center	www.dcn.davis.ca.us
uc davis cancer center	daviswiki.org
las vegas	www.vegas.com
new cancer drug santa rosa california	www.nih.gov
smart travel deals	www.statesman.com
advance travel deals	ww2.aaa.com
richie brothers	www.rbaction.com
travel	www.fodors.com
astelin	www.dir.pjd.gov.au
concrete trucks	uk.holidayguide.yahoo.com
las vegas coupon offers	www.springfield.net
peterbill mixer trucks	www.rockanddirt.com
kenworth semi mcneilus sliding trailer mixer	tannerequipment.com
kenworth mixer	www.gulf-times.com
fifteen yard concrete trucks for sale	www.orthopedicquestions.com
burning feeling in arm	www.las-vegas-nv.com
vegas casino coupons	www.imtb.com
preffy	searchenginez.com
public record death search free	www.publicrecordfinder.com

people search

high school records santa rosa california	www.whoehere.com
high school onell records santa rosa ca	www.santarosa.edu
one high school santa rosa california	www.ericbaudemont.com
high school records santa rosa ca	www.santarosa.edu
santa rosa junior collage santa rosa ca	www.santarosa.edu
we free money	www.freecenter.com
free photo contest	www.picture.com
montgomery high santa rosa california	www.greatschools.net
disposable wages	www.cocent.org
disposable earnings	www.dd.gov
car insurance age brakes	googleplex.cuna.org
singer car audio	singamusicradio.com
heart shaped diamonds	www.diamondgrading.com
heart shaped diamond rings	shopping.yahoo.com
heart shaped pink diamond engagement rings	www.nexlag.com
heart diamond engagement rings	www.nexlag.com
heart engagement rings	www.nexlag.com
newly diagnosed tumor a patient's story	www.makco.org
tumor	hope.aba.org
pacific northwest	www.gonorthwest.com
starley morgan	www.morganstarley.com
heart to heart ram	mind.facebook.com
tumor by the brain	www.thomson.com
rebuild hydraulic ram	www.weggs.it.state.tx.us
metiglan insurance	www.pharmapresso.com
optical pills	



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las vegas discounts	www.tripreservations.com
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las vegas entertainment	www.sunfinder-vacations.com
sick feeling in body	www.cancerhelp.org.uk
burning pains in the body	www.wrongdiagnosis.com
low energy	thyroid.about.com
writing letter	esi.about.com
writing a finance letter to customers	www.amazon.com
travel discounts	www.traveldiscounts.com
uc davis cancer treatment center	cancer.ucdmc.ucdavis.edu
uc davis medical center	www.dcn.davis.ca.us
uc davis cancer center	daviswiki.org
las vegas	www.vegas.com
new cancer drug santa rosa california	www.nih.gov
smart travel deals	www.statesman.com
advance travel deals	ww2.aaa.com
richie brothers	www.rbaction.com
travel	www.fodors.com
astelin	www.dir.pjd.gov.au
concrete trucks	uk.holidayguide.yahoo.com
las vegas coupon offers	www.springfield.net
peterbill mixer trucks	www.rockanddirt.com
kenworth semi mcneilus sliding trailer mixer	tannerequipment.com
kenworth mixer	www.gulf-times.com
fifteen yard concrete trucks for sale	www.orthopedicquestions.com
burning feeling in arm	www.las-vegas-nv.com
vegas casino coupons	www.imtb.com
preffy	searchenginez.com
public record death search free	www.publicrecordfinder.com

Conclusion:

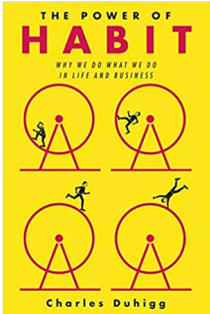
- The user faces serious medical concerns (possibly long cancer)
- Searching for cure in UC Davis;
- Planning a trip to Las Vegas;
- Searching for some old friends!

Can you imagine what GOOGLE has on you?

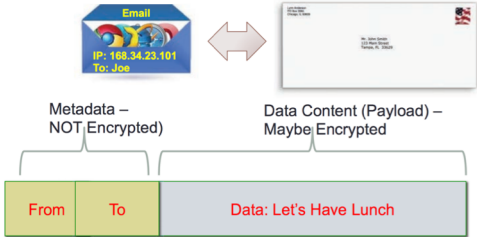


What do retail stores have on us?

Watch the video.....

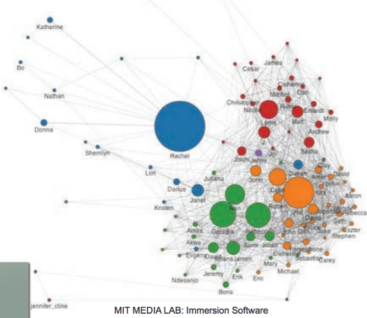


The Internet In Action – Metadata Monitoring



Metadata: What Does it Reveal?

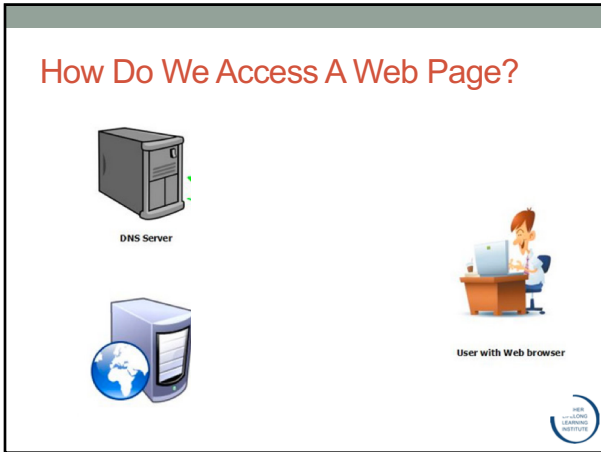
- Putting subtle pattern out of your data
 - Are you pregnant?
 - Are you Sick?
 - Where are you going to school?
 - Are you moving out?
 - Are you traveling soon?
- Finding your connections
 - Whom are you communicating with

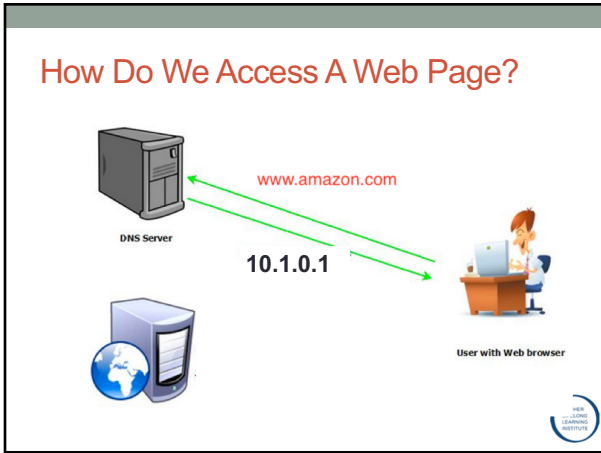


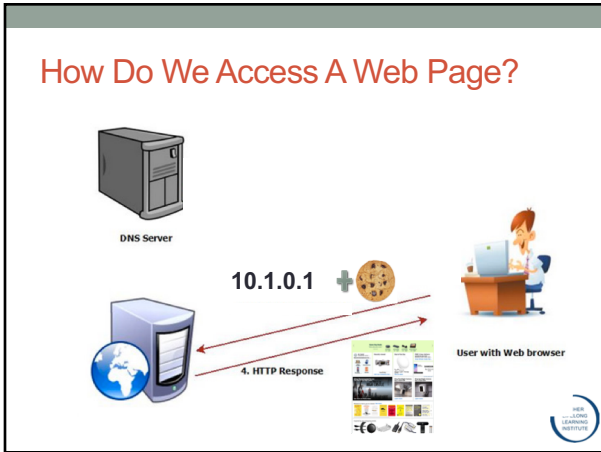
Metadata is NOT encrypted!
Does it mean we can collect them?

MIT MEDIA LAB: Immersion Software

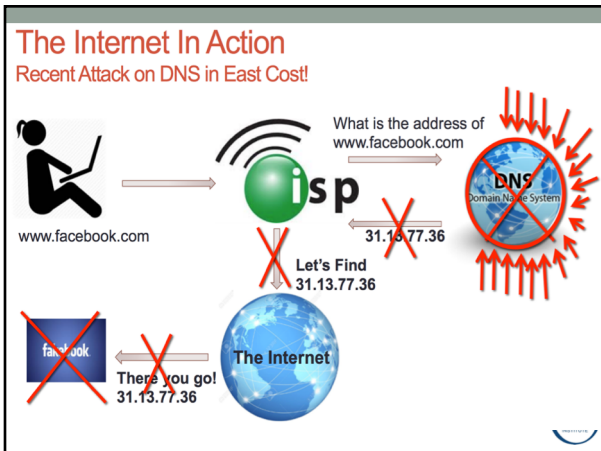


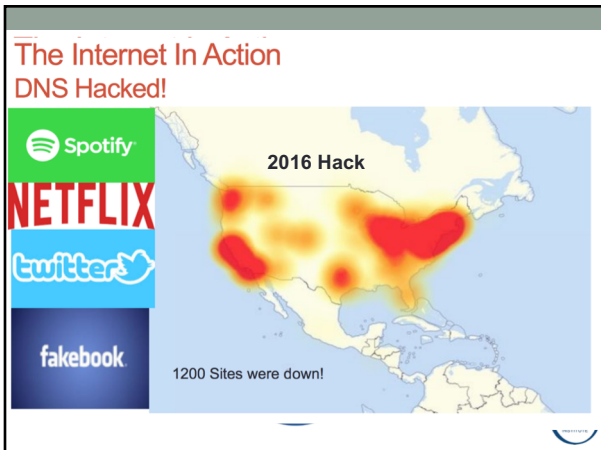













Connecting to the Internet

1



ISP

IP Address:
130.118.23.100

Let's have a BLOG!
130.118.23.100
www.stopbailout.org

2

Register with a domain name registrar

GoDaddy.com **GoDaddy.com**
"Domains, websites & everything in between!"

Domain name:
www.stopbailout.org




BLOG

Why do we bailout BANKs & not ordinary people?

3


Internet Corporation for Assigned Names and Numbers

ICANN

U.S. DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA


ICANN Organization



- The Internet Corporation for Assigned Names and Numbers (ICANN)
 - ICANN is a non-profit organization
 - It was under a contract with DoC (U.S. department of commerce)
 - The United States Department of Commerce who must approve all changes requested to addressing (Zone files) by ICANN.
 - Responsible for coordinating the Internet's systems of unique identifiers, including the systems of domain names and numeric addresses that are used to reach computers on the Internet
- ICANN assigns address blocks to regional Internet registries (RIR)
- In 2016 the ICANN contract was handed over to the UN

http://en.wikipedia.org/wiki/IRANIC

Domain Names



Domain Name	Assigned To
aero	Air transport industry
arpa	Infrastructure domain
asia	For or about Asia
biz	Businesses
com	Commercial organizations
coop	Cooperative associations
edu	Educational institutions
gov	United States Government
info	Information
int	International treaty organizations
jobs	Human resource managers
mil	United States military
mobi	Mobile content providers
museum	Museums
name	Individuals
net	Major network support centers
org	Non-commercial organizations
pro	Credentialed professionals
travel	Travel and tourism
country code	A sovereign nation

Seized Web Sites



This domain name associated with the website Megaupload.com has been seized pursuant to an order issued by a U.S. District Court.

A federal grand jury has indicted several individuals and entities allegedly involved in the operation of Megaupload.com and related websites charging them with the following federal crimes:

Conspiracy to Commit Racketeering (18 U.S.C. § 1962(a)), Conspiracy to Commit Copyright Infringement (18 U.S.C. § 371), Conspiracy to Commit Money Laundering (18 U.S.C. § 1956(h)), and Criminal Copyright Infringement (18 U.S.C. §§ 2, 2319, 17 U.S.C. § 506).

seized by the F.B.I. pursuant to an Arrest Warrant in Rem obtained by the Office for the Southern District of New York and issued by the United States District Court for the Southern District of New York.

...ing, supervising, directing, or owning all or part of an illegal gambling business is a federal crime. (18 U.S.C. § 1955)

For persons engaged in the business of betting or wagering, it is also a federal crime to knowingly accept, in connection with the participation of another person in unlawful internet gambling, credit, electronic fund transfers, or checks. (31 U.S.C. § § 5363 & 5366)

Violations of these laws carry criminal penalties of up to five years' imprisonment and a fine of up to \$250,000.

Properties, including domain names, used in violation of the provisions of 18 U.S.C. § 1955 or involved in money laundering transactions are subject to forfeiture to the United States. (18 U.S.C. § § 1961 & 1956(d))

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