	ecurity - Legal Issues
Note Tit	le 4/12/2011
	Announcements
	- Good faith paper ( due next Tuesday)
	- Lab due Wednesday
	- Next lab up today  read by next Tuesday  due after Easter  checkpoint next Wednesday
	· checkpoint next Wednesday

Types of Computer Crime The DOT categorizes cyber crime based on the role of the computer: target: data at system integrity

confidentiality

privacy

avalability CDOS - Storage - communication tool: Sale of illegal items
fraud
gambling

rnational Cybercrime - Illegal Access - Illegal interception - Data interference - System Interference - Misuse of devices - Computer fragery - computer fraud - child pornography
-infringement of copy right
- attempt + aiding or about Crime stats (table in book)

Challenges to law enforcement
-investigation requires technical expertise
-lack of resources
-global scope in many investigations
-lack of collaboration a cooperation

Case study: Kevin Mitnick
Mitnick actually committed many computer crimes: -19831: While a student at USC, broke into ARPANet.  Gained access to Pentagon Spent 6 months in juvie center
Computer, crimes:
-19831: While a student at USC, broke
into ARPANet.
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Spent 6 months in will confer
J. S. T. S.
-1987: Along with a friend, Di Cicco, broke into DEC to steal source code for VMS OS (for VAX computers). Successfully avoided capture by Scrambling calls. Problem: Dicicco
into DEC to steel source codo for
VMS OS (for MAX computers).
Successfully avoided capture by
Scrambling Calls.
Problem: Diticco

(asc study cont: 1994: Mitnick decided to attack another security expert, Tsutoma Shimomura. Hacked his personal computer using IP Spooting a TGP seguence number prediction.

(Show topdump) Shimomure's frewall detected this, + he traced it back to Mitnick Decided to get back at

shimomura offered to

phone



U.S. Department of Justice United States Marshals Service

United States Marshals Service NCIC entry number: (NIC/\_\_V721460021\_

NAME: ..... MITNICK, KEVIN DAVID

AKS(S): .....MITNIK, KEVIN DAVID

DESCRIPTION:

Sex:.....MALE

Weight:.....190

Eyes: .....BLUE Hair:.....BROWN

ADDRESS AND LOCALE: KNOWN TO RESIDE IN THE SAN FERNANDO VALLEY AREA OF CALIFORNIA AND LAS VEGAS, MEVADA

WANTED FOR: VIOLATION OF SUPERVISED RELEASE
OBIGINAL CHARGES: POSSESSION UNAUTHORIZED ACCESS DEVICE; COMPUTER FRAUD
WHENTEN HOMO'S CENTRAL DISTRICT OF CALLFORNIA
WEIGHN Number: 9312-1112-0154-C

DATE WARRANT ISSUED: NOVEMBER 10, 1992

MISCELLANDOUS INFORMATION: SUBJECT SUPPERS FROM A WEIGHT PROBLEM AND MAY HAVE EXPERIENCED WEIGHT GALE OR WEIGHT LOSS
VEHICLE/TAG INFORMATION: ROBE EXFORM OFTEN USES FUBLIC TRANSPORTATION

If arrested or wheresbouts known, notify the local United States Marshals Office, (Telephone: 213-894-2485 ).

If no answer, call United States Marshalt Service Communications Center in McLean Virginia. Telephone (800)336-0102: (24 hour telephone contact). NLETS access code is VAUSMOOOD.

PRIOR EDITIONS ARE OBSOLETE AND NOT TO BE USED

November 1992

In the US, 3 types: Real property (land a things permanetly attacked to land) Personal Property Intellectual property

## Intellectual Property 3 main types are given legal protection (D copyrights: protect tangible of fixed (not idea itself)

- Ditademarks: a name, symbol, word, on device used in trade to indicate source of a good (also service marks)
- 3) patents: "the right to exclude others from making, using offering for sale, or selling" an Jinventon

xamples Copyright: Literary works,
musical works,
architectural works,
Software related works Patents: Uhlity design, or plant (Most relevant - RSA)

What is protected?

Software: mostly under copyright, although potent is possible

Databases: copyright

Digital Content: copyright

Algorithms: patent

Legislation: DMCA, 1998 Strengthens protection of copyrighted unaterials in digital format Encourges copyright owners to protect
works by:
- preventing access to work
- prevent copying of work "No person shall circumvent a technological measure that effectively controls access to a work protected under this title" So you cannot decrypt content or manufacture, release, or sell devices which

xemptions

- Fair use
- Reverse engineering (for interoperability)
- encrypton research
- Security testing
- personal privacy

DRM - Digital Rights Management RM refers to systems or procedures that ensure holders of digital rights are clearly identified a get poid. No single standard forthis. Generally, distributor encrypts the content, at a liscense must be purchased from a clearing house. thate authorit

Case Study: DND Jon (Jon Johansen) A famous "cracker": not interested in hacking computers. In 2001, started making a name by posting methods to circumvent DRM. In 2003, wrote OTFairUse a program which could strip DRM data from Tunes purchases. Most recently, focused on iPhones - first person to use an iPhone without subscribing to the mandatory carrier.

Privacy	
•	Protection Directive, 1998:
	•
about personal well as uses	the notify individuals info collected, as and choices.
- Consent (for 3	
- Consistency	- Onward fransfer
- Access	- Enforcement
- Searity	

Privacy Act of 1974
governs storage dissemenation, + accers
Jof personal information gathered by
the government

Other legis ahon:
-banking
- credit reports
- medical & health insurance into
- Children's privacy
- electronic communications

Ethical Issues in Computing

A huge area - go take the class!

Case study: Jailbrecking

Your assignment We're round to do a case study als cussion next Tuesday in class. (no extensions) Pease bring a 300-word essey, which will be partipation.

(so you don't have to be so cateful.) sources of info (no Wikipedia)

2 Sources provided, find at least 2 more. (No Wikipedia!)
leest 2 more.
No Microedia!
Questions: - To it permissible for Sony to Prevent people from jailbreaking the PS3? People from jailbreaking
Drevent Dooble from jail breaking
H. PS3?
- Is it permissible for members of Anonymous to perform DDOS attacks against Sony as an act of retribution?
to perform DDOS attacks against Sony
as an act of retribution?
-Did Hotz have a responsibility to the
-Did Hotz have a responsibility to the
J'