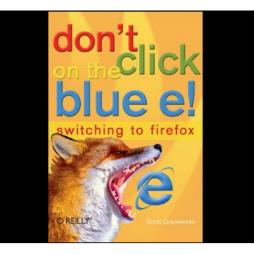
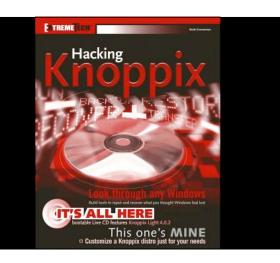
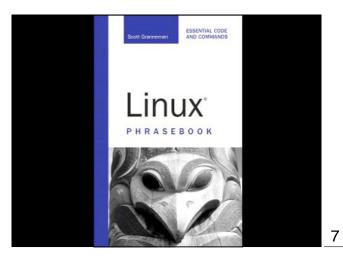


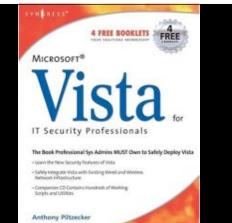
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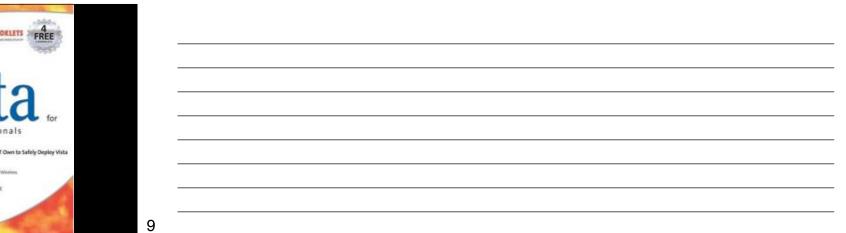


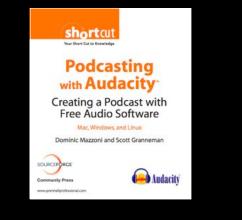




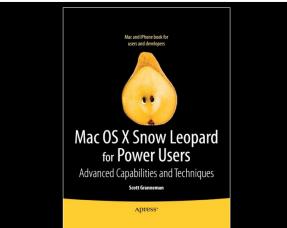
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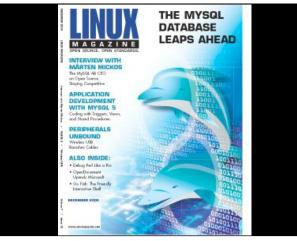
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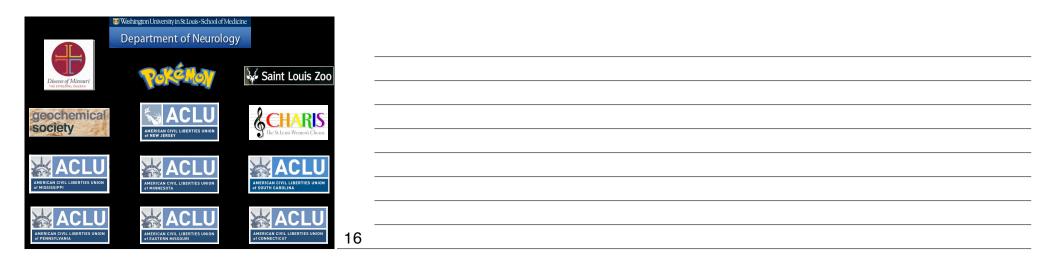
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4 Talks	
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Personal Security on the Internet The Future of Journalism & the Media

With Denise Lieberman: Voting: Technical & Legal Issues Technology & the Limits of Censorship & Free Speech

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Once a technology makes something possible, it gots applied	
it gets applied, whether for good or bad.	
Donald A. Norman	
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What to Believe?



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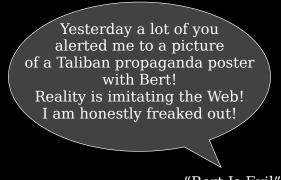








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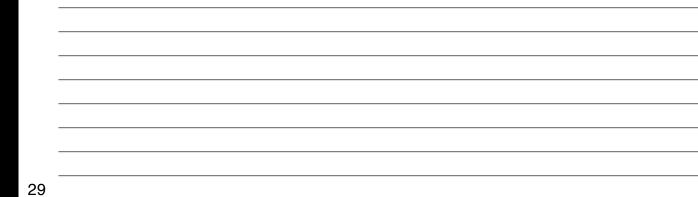
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Virus Worm Trojan Horse Spyware

Virus	
Self-replicating	
Infects another program & uses that to spread	
Alters the way a computer operates	
3	

Worm		
Self-replicating		
Uses a network to send copies of itself to other computers		
Spreads without human intervention		
32		

Trojan Horse

Malicious program that disguises itself as legitimate software

Looks harmless or useful, but hides something harmful

Spyware

Gathers inform about you & your co

> Transmits infor to an external without your known or informed co

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Firesheep Appeared October 27, 2010 Firefox extension Makes cookie sidejacking *easy*

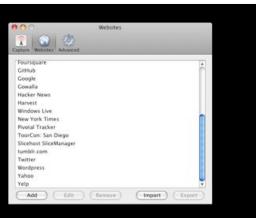
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Service providers (Facebook, Yahoo Mail, Twitter) need to use HTTPS everywhere

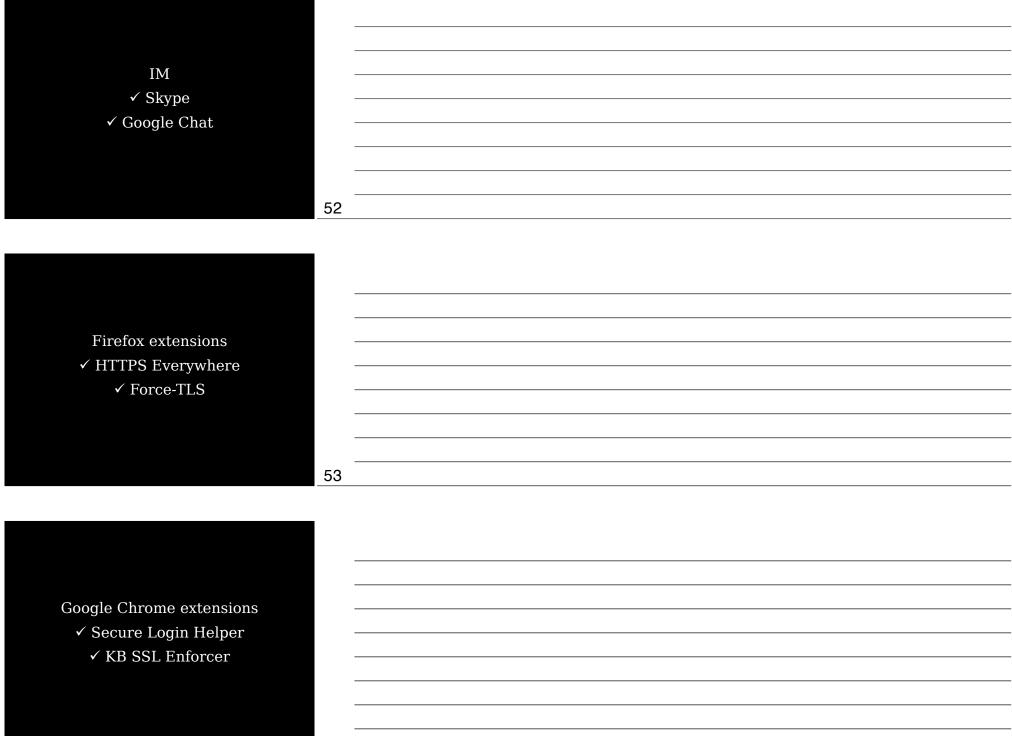
Send email using encryption Read email using encryption IM using encryption Conduct e-commerce using HTTPS

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VPN (Virtual Private Network) encrypts all Internet traffic

> StrongVPN www.strongvpn.com \$7/month

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Backup

Why	·?		
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How much data		
can you afford to lose?		
1 hour? 1 day? 1 week?		
1 week?		
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blem has been detected and windows has been shut down to prevent damage ur computer.

IVER_IRQL_NOT_LESS_OR_EQUAL

nis is the first time you've seen this Stop error screen, art your computer, If this screen appears again, follow

to make sure any new hardware or software is properly installed. s is a new installation, ask your hardware or software manufacturer y windows updates you might need.

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ng dump of physical memory

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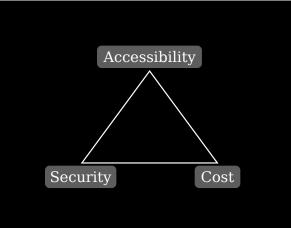
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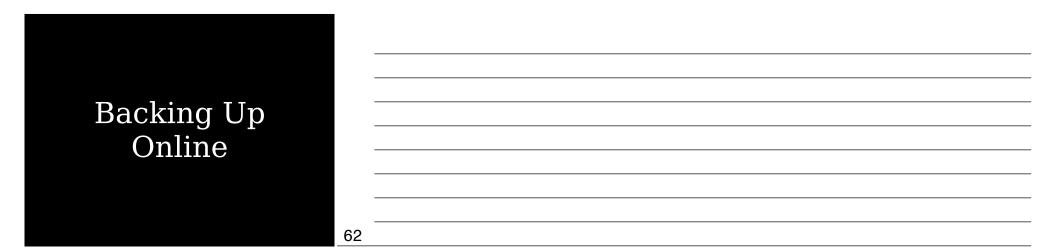
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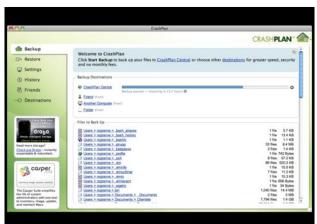


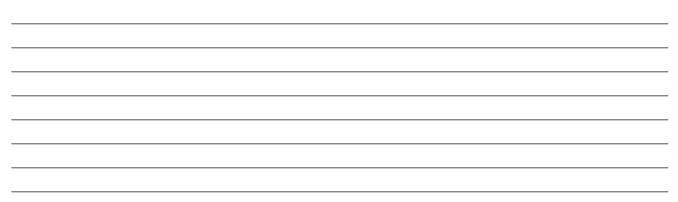
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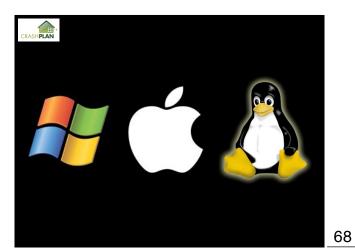
CrashPlan www.crashplan.com





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CrashPlan prov	ides secure unlimited backup to multiple destinations. Add destinations to improve your CrashPlan:		
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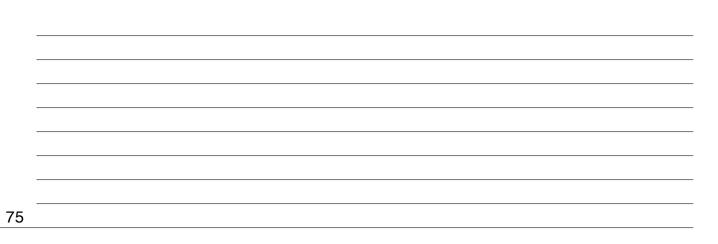
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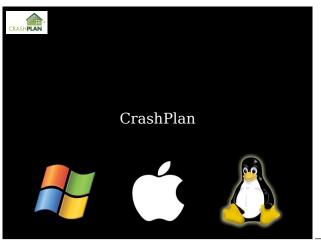




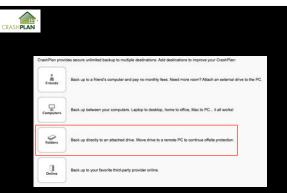
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Home Premium			~
Business ✓	✓	✓	~
Enterprise 🗸	✓	\checkmark	\checkmark
Ultimate 🗸	~	\checkmark	~
-	✓ ✓	✓ ✓	





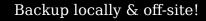




Cloning	78
Carbon Copy Cloner Free www.bombich.com	
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Acronis True Image \$50 for Home www.acronis.com	



Clonezilla	
Free	
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Backup locally & off-site!



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Backup locally & off-site!



Source: Sylvain Pedneault; edited by jjron; http://commons.wikimedia.org/w/index.php? title=File:FirePhotography_edit1.jpg&oldid=2 6671960

Backup locally & off-site!



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82



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Passwords

ords	-	 			
	83	 			

Pick a good password *Password crackers* will make mincemeat of poor passwords

vords

84

Guidelines for a good password

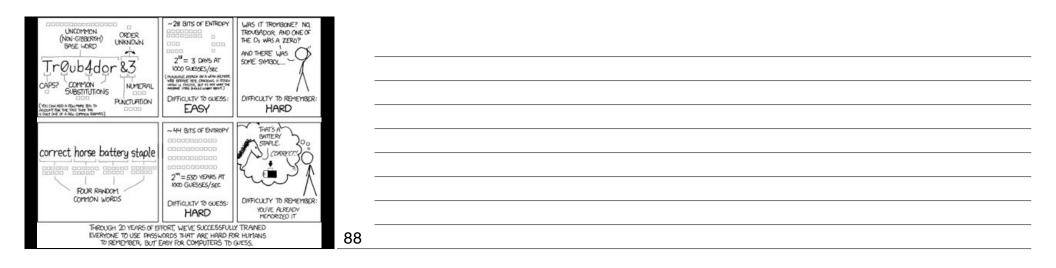
1. Don't use easy passwords 2. Mix of 3 of these 4:

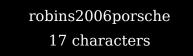


3. At least 8 characters 4. Easy to remember & hard to guess

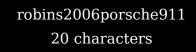
Here's a good method for picking a good password:	
"Where it began, I can't begin to know when"	
Wib,Icbtkw ↓	
W16,Ic6tkw	
↓ W16,Ic6tkw!	
W10,100KW.	
	86
Here's a good method for picking a good password:	
"Where it began, I can't begin to know when"	
Wib,Icbtkw	
↓ Unit of the second s	
W16,Ic6tkw	
W16,Ic6tkw!	

Passphrases are great!





number of passwords	$\approx 2^{30} \approx 2.865 \times 10^{20}$	
ime to enumerate	≈ 90.85 trillion years	
	(at 100 000 passwords per second)	
password entropy	87.89 bits	
		00
		89



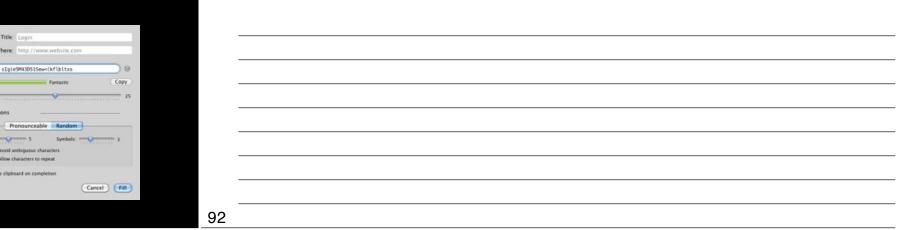
number of passwords	$\approx 2^{103} \approx 1.337 \times 10^{31}$
time to enumerate	$\approx 4.239 \times 10^{18} \mbox{ years}$ (at 100 000 passwords per second)
password entropy	103.4 bits

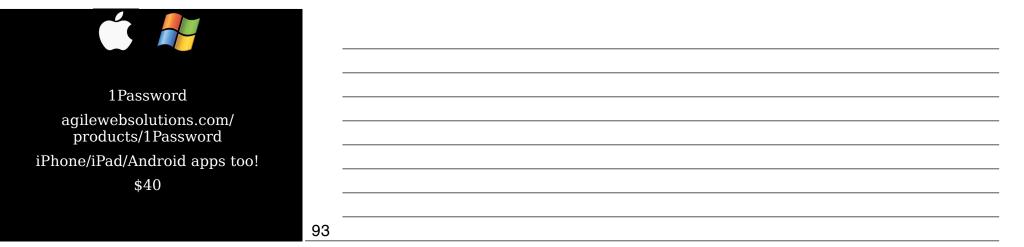
4,239,000,000,000,000 = 4 quintillion, 239 quadrillion

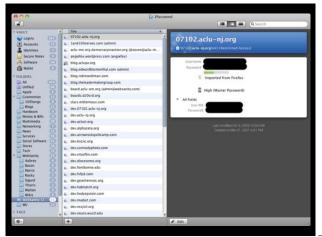
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	_		
Use a <i>password safe</i>	_		
erate lengthy, difficult passwords	_		
Securely store passwords	_		
	91		

	sIg(e5943D515ew<(kflbltxs	
Strength	Fantastic	Cop
Length	• ••••••••••••••••••••••••••••••••••••	
dvanced	Options	
	Pronounceable Random	
Digits		3
	Avoid ambiguous characters	







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94			
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KeePassX www.keepassx.org

MyPasswordSafe www.semanticgap.com/myps/

Password Gorilla www.fpx.de/fp/Software/Gorilla/

All are free & open source

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Don't forget to change the default administrator password on your firewall! Default passwords are well known

Maker	Device	Login	Password
Apple	Airport 1.1	-	public
D-Link	DI-704	-	admin
Intel	Wireless 2011	-	Intel
Linksys	Cable/DSL router	-	admin
Netgear	RT311	admin	1234
SonicWall	Any	admin	password
www.governments	security.org/articles/DefaultLoginsandF	asswordsforNe	tworkedDevices.php



Review		
	98	

What to	Believe?
Malv	ware
Wire	eless
Bac	kup
Passv	vords
Wire Bac	eless kup

You <i>can</i> be secure!*	
fou can be secure:	
* If you use your head, act carefully,	
* If you use your head, act carefully, & understand that security is a continuous process that never stops	100



101				

Thank you!

Email: scott@granneman.com Web: www.granneman.com Publications: www.granneman.com/pubs Blog: www.ChainsawOnATireSwing.com Twitter: scottgranneman

Personal Security Online: Protecting Yourself	
Ladue Chapel Presbyterian Church	
R. Scott Granneman	
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Questions? Email scott@granneman.com