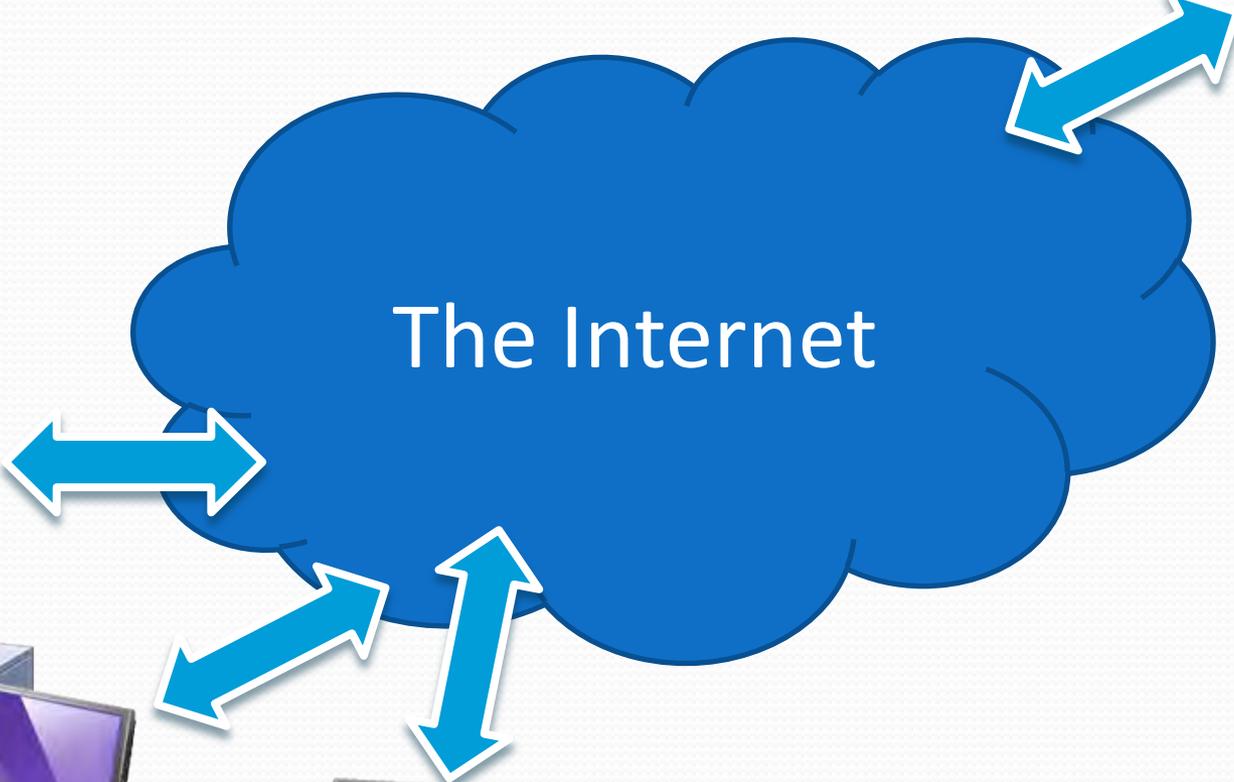


# Protecting Yourself Online

Tim Valdepena

*Web Programmer at UC Davis*

The Internet



Browser window showing a Google search for "sefalapod". The search results page displays the Google logo, the search term "sefalapod", and the number of results (About 1,470,000 results (0.22 seconds)). The search results are categorized by "Everything", "Images", "Maps", "Videos", "News", "Shopping", and "More". The "Everything" category is selected, showing results for "cephalopod". The first result is a Wikipedia link: "Cephalopod - Wikipedia, the free encyclopedia" with the URL "en.wikipedia.org/wiki/Cephalopod". The description states: "A cephalopod is any member of the molluscan class Cephalopoda (Greek plural Κεφαλόποδα (kephalópoda); "head-feet"). These exclusively marine animals ...". Below this is a link to "Octopus, Squid, Cuttlefish, and Nautilus - The Cephalopod Page" with the URL "www.thecephalopodpage.org/". The description states: "The Cephalopod Page features the class of marine mollusks that includes nautilus, squid, cuttlefish, and octopus. Some of Dr. Wood's recent work was featured ...". The second result is a YouTube video: "Cephalopod, master of camouflage - YouTube" with the URL "www.youtube.com/watch?v=5rqhomPaxhE". The video is titled "Cephalopod, master of camouflage" and is 1:06 minutes long, uploaded by Snootwaller on May 2, 2008. The description states: "You think chameleons are good at camouflage? They ain't got nothing on our underwater friends. From Nova." The browser window also shows the search bar, navigation links (Search, Images, Videos, Maps, News, Shopping, Gmail, More), and a "Sign in" button.

# Hazards

- Malware: viruses, trojans, key loggers
- Phishing
- Scams
- Identity theft
- Privacy

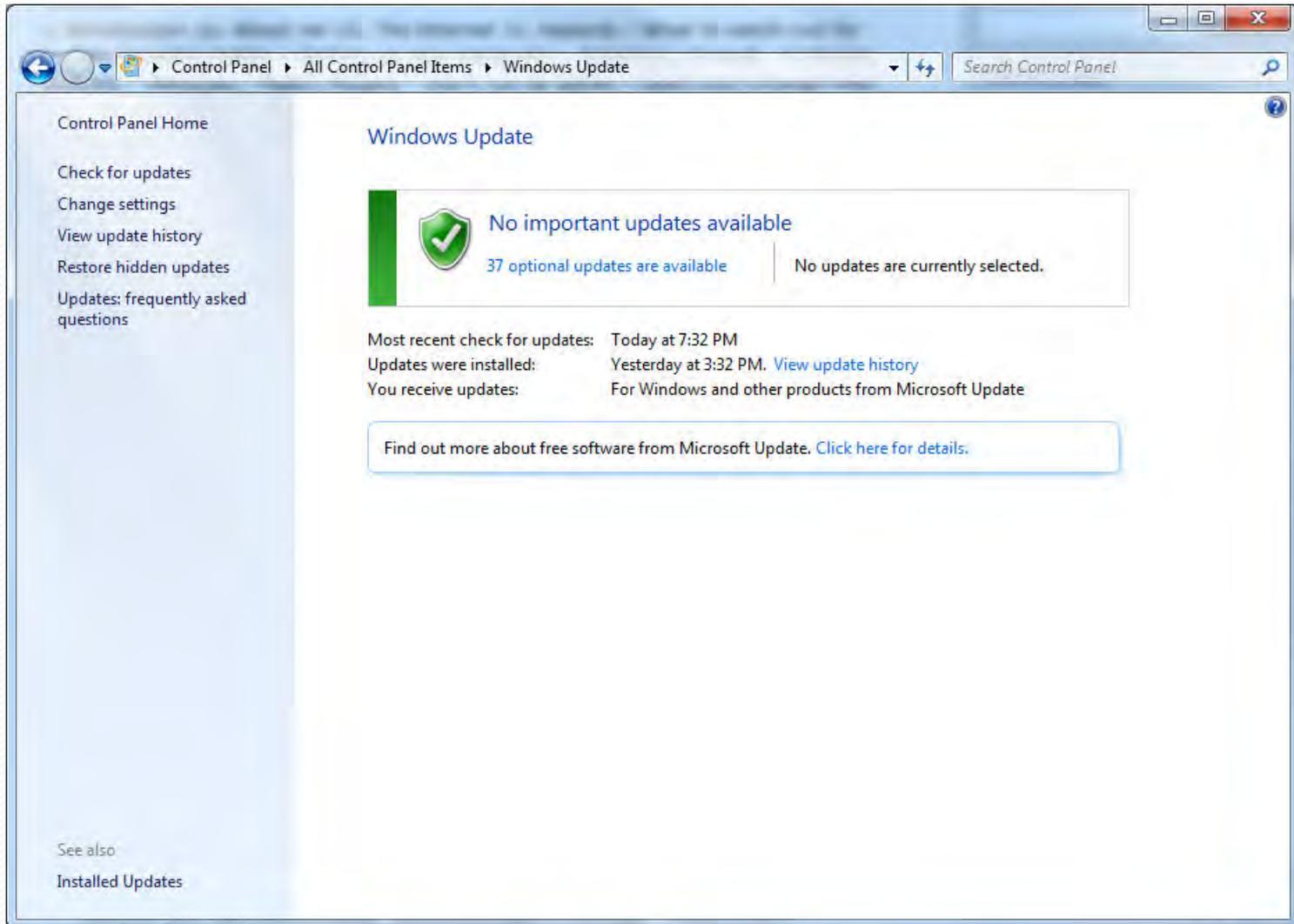
# Your Computer

# Keep Up To Date



102671802

# Windows Update



# Antivirus Software



# Firewall Software



# Antivirus and Firewall Software

- Windows
  - Microsoft Security Essentials
    - <http://windows.microsoft.com/en-US/windows/products/security-essentials>
  - Windows Firewall
    - Built into windows XP, Vista and Windows 7
- Mac
  - ClamXav
    - <http://www.clamxav.com/>
  - ipfw

# What to do if you get a virus

1. Disconnect internet connection
2. Download a free antivirus tool from a friends computer
  1. <http://windows.microsoft.com/en-US/windows/products/security-essentials>
  2. <http://www.malwarebytes.org/>
  3. <http://free.avg.com/us-en/download>
3. Install and run the tool on your computer
4. Scan any external drives

# Browser Plug-ins (extensions)





<http://www.mywot.com/>

### [Wallpaper & Wallpaper Borders at The Home Depot](#)

[www.homedepot.com/Decor-Wallpaper/h.../Navigation?...](http://www.homedepot.com/Decor-Wallpaper/h.../Navigation?...)

Find the right border and **wallpaper** decor for any room. Make **wallpaper** projects quick and easy and shop our selection of border and **wallpaper** samples and ...

↳ [Wallpaper - Wallpaper Samples - Borders](#)

### [Wallpaper, Borders, Murals and Other Wall Décor](#)

[www.americanblinds.com/wallpaper/](http://www.americanblinds.com/wallpaper/)

Buy **wallpaper**, borders, murals and other wall décor for your home at American Blinds and **Wallpaper**. Choose from 1000s of products. Over 50 years of ...

### [Free Wallpapers | Wallpapers](#)

[www.wallpapers.com/](http://www.wallpapers.com/)

Jan 13, 2011 – **Wallpapers** - Your source for original desktop **wallpapers**, 3D animated **wallpaper**, Wallery desktop slideshow, and standard **wallpaper**.

↳ [Living 3D Dolphins Animated ...](#) - [Living Waterfalls #1 Animated ...](#) - [Nature - Dogs](#)

### [Wallpapers To Go|Wallpaper, Borders, Wallcovering, Discounted ...](#)

[www.wallpaperstogo.com/](http://www.wallpaperstogo.com/)

**Wallpaper** including designer & discounted **wallpapers** as well as other home wallcovering such as **wallpaper** borders and **wallpaper** murals are offered at ...





http://noscript.net/

Scripts Currently Forbidden | <SCRIPT>: 64 | <OBJECT>: 1

2012 NFL SCHEDULE RELEASE 00 18 22 04

**YES IT'S REAL!**  
WATCH THE BEHIND THE SCENES VIDEO

**ON THE BEAT**  
**Offensive revival**  
Find out which two of these players Browns beat writers see reinigorating Cleveland's offense in 2012. Read  
Is Martin a first-round RB? | Watch: Draft projections for Tannehill | Draft lessons from Bill Walsh

**HOT TOPIC**  
**Luck-RG3 duel headlines top preseason games**

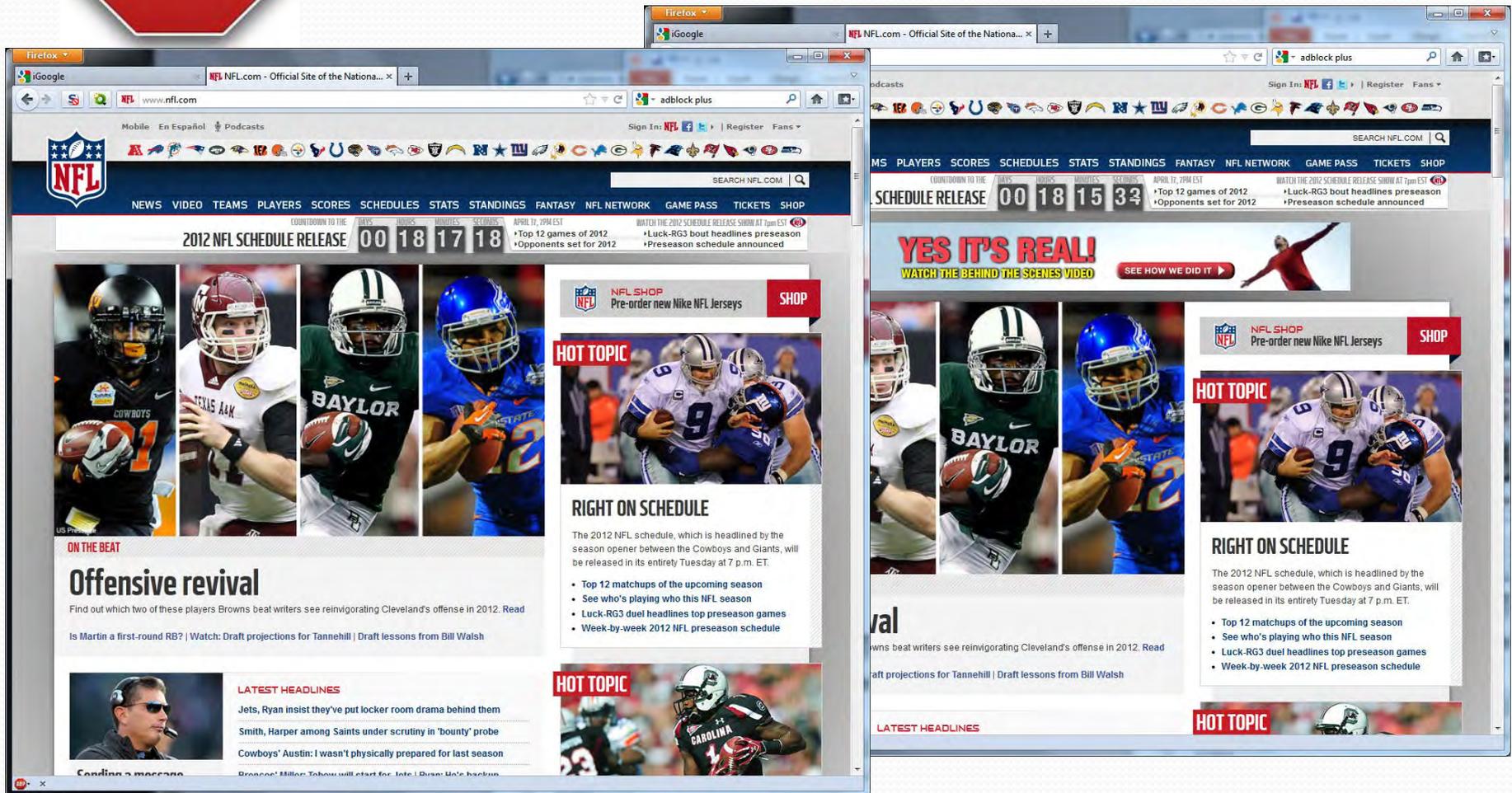
**RIGHT ON SCHEDULE**  
The 2012 NFL schedule, which is headlined by the season opener between the Cowboys and Giants, will be released in its entirety Tuesday at 7 p.m. ET.

- Top 12 matchups of the upcoming season
- See who's playing who this NFL season
- Luck-RG3 duel headlines top preseason games
- Week-by-week 2012 NFL preseason schedule

om, nflcdn.com, fetchback.com) | <SCRIPT>: 82 | <OBJECT>: 0



http://adblockplus.org



# Private Browsing

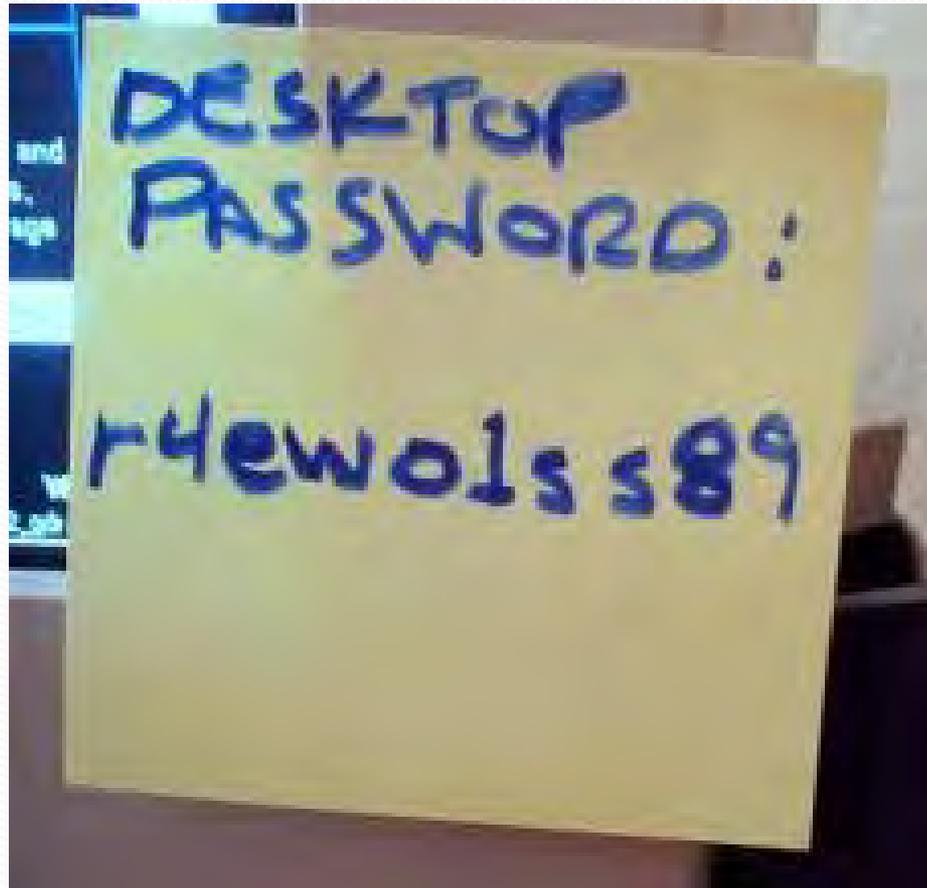


# Safe Habits

# Use a non-admin account

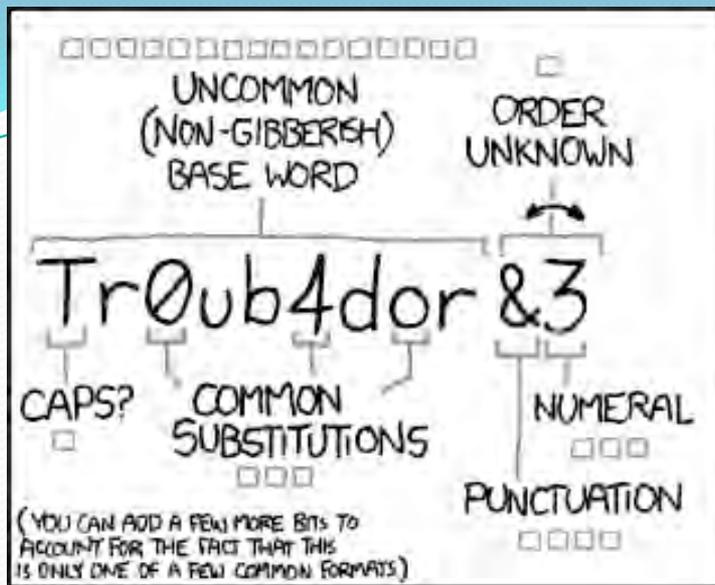


# Passwords



# Most Common Passwords in 2011

- |             |             |             |
|-------------|-------------|-------------|
| 1. password | 11.baseball | 21.654321   |
| 2. 123456   | 12.111111   | 22.superman |
| 3. 12345678 | 13.iloveyou | 23.qazwsx   |
| 4. qwerty   | 14.master   | 24.michael  |
| 5. abc123   | 15.sunshine | 25.football |
| 6. monkey   | 16.ashley   |             |
| 7. 1234567  | 17.bailey   |             |
| 8. letmein  | 18.passw0rd |             |
| 9. trustno1 | 19.shadow   |             |
| 10.dragon   | 20.123123   |             |



~28 BITS OF ENTROPY

$2^{28} = 3 \text{ DAYS AT } 1000 \text{ GUESSES/SEC}$

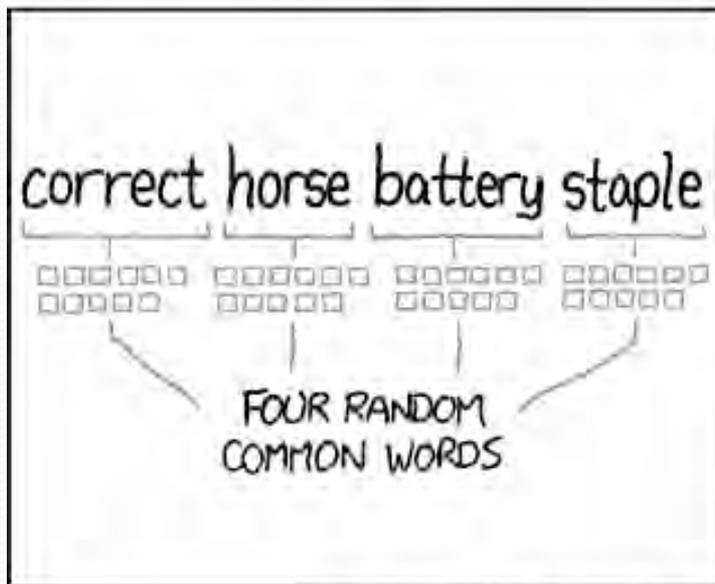
(PLAUSIBLE ATTACK ON A WEAK REMOTE WEB SERVICE. YES, CRACKING A STOLEN HASH IS FASTER, BUT IT'S NOT WHAT THE AVERAGE USER SHOULD WORRY ABOUT.)

DIFFICULTY TO GUESS: **EASY**

WAS IT TROMBONE? NO, TROUBADOR. AND ONE OF THE 0s WAS A ZERO?

AND THERE WAS SOME SYMBOL...

DIFFICULTY TO REMEMBER: **HARD**



~44 BITS OF ENTROPY

$2^{44} = 550 \text{ YEARS AT } 1000 \text{ GUESSES/SEC}$

DIFFICULTY TO GUESS: **HARD**

THAT'S A BATTERY STAPLE.

CORRECT!

DIFFICULTY TO REMEMBER: YOU'VE ALREADY MEMORIZED IT

THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

# Passwords



Keepass

**LastPass** \*\*\*\*  
The Last Password You'll Ever Need.

# Phishing



Dear valued customer of TrustedBank,

We have received notice that you have recently attempted to withdraw the following amount from your checking account while in another country: \$135.05.

If this information is not correct, someone unknown may have access to your account. As a safety measure, please visit our website via the link below to verify your personal information.

<http://www.trustedbank.com/general/customerinfo.asp>

Once you have done this, our fraud department will work to resolve this discrepancy. We are happy you have chosen us to do business with.

Thank you,  
TrustedBank

January 10, 2008 11:00 AM EST

# Don't click that!!!

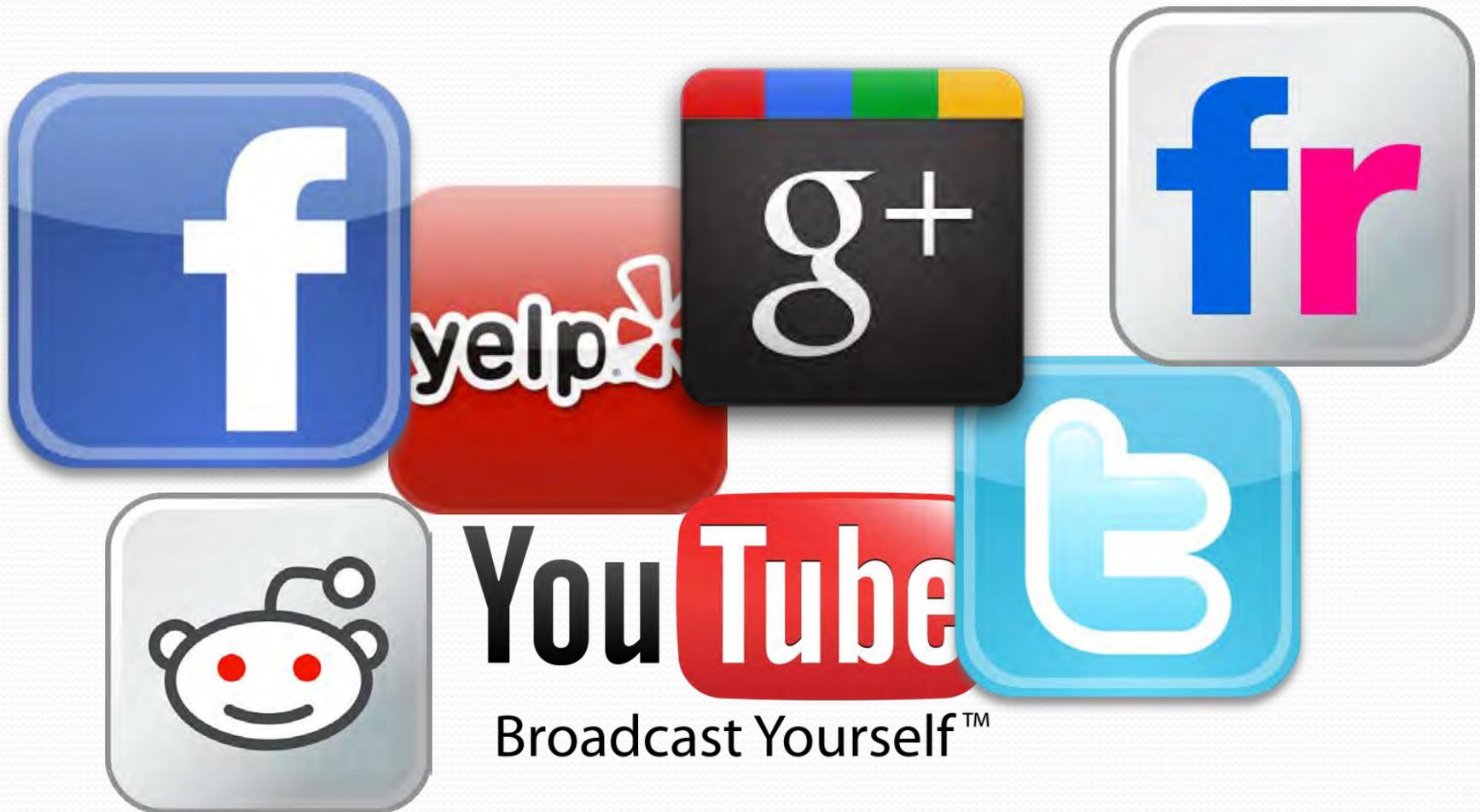


# File Sharing



# Social Media

# Social Media





“You are the one who decides your privacy and the minute you go online, you’ve decided you want less privacy. That’s the deal in this age.”

—Rob Conery

# Be careful what you post





# Privacy Settings

# Facebook Apps

## Request for Permission

**Words With Friends** is requesting permission to do the following:



### Access my basic information

Includes name, profile picture, gender, networks, user ID, list of friends, and any other information I've made public



### Send me email

Words With Friends may email me directly at [timvaldepena@gmail.com](mailto:timvaldepena@gmail.com) · [Change](#)



### Post to Facebook as me

Words With Friends may post status messages, notes, photos, and videos on my behalf.



### Access my data any time

Words With Friends may access my data when I'm not using the application.



### Publish games and app activity

Words With Friends may publish scores, achievements, and other activity to Facebook.



Words With Friends

By proceeding, you agree to [Words With Friends's Terms of Service](#) and [Privacy Policy](#) · [Report App](#)

Logged in as Tim Valdepena · [Log Out](#)

Allow

Don't Allow

# Wireless Networks

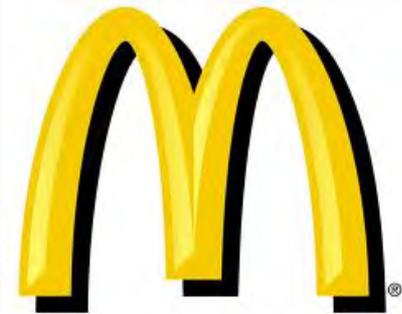
# WiFi Networks



# Securing your wireless network

- Change (or Hide) the SSID
- Enable wireless security
  - (WPA2 > WPA > WEP)
  
- To log into the router
  - 192.168.0.1
  - 192.168.1.1
  - 192.168.2.1
  - 192.168.1.100

# Public Wifi



# Smartphones

# Wifi Hotspots



# Geolocation



# Disable Geolocation on iPhone

1. Launch Settings
2. Tap Location services



# Find My iPhone App

- Locate your iPhone on a map
- Display a message or play a sound to help you find it
- Set a passcode lock remotely
- Protect your privacy with Remote Wipe



# Parental Control

Controlling what kids are exposed to on the internet

# 2012 Best Internet Filter Software and Comparisons

Rank	#1	#2	#3	#4	#5	#6	#7	#8
<p>★★★★★ Excellent</p> <p>★★★★☆ Very Good</p> <p>★★★☆☆ Good</p> <p>★★☆☆☆ Fair</p> <p>★☆☆☆☆ Poor</p>	<p><a href="#">Net Nanny Parental Controls</a></p> 	<p><a href="#">McAfee Safe Eyes</a></p> 	<p><a href="#">McAfee Family Protection</a></p> 	<p><a href="#">PureSight PC</a></p> 	<p><a href="#">CYBERSitter</a></p> 	<p><a href="#">CyberPatrol</a></p> 	<p><a href="#">Profil Parental Filter 2</a></p> 	<p><a href="#">imView</a></p> 
Reviewer Comments	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>
Lowest Price	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>
	<b>\$28.99</b>	<b>\$49.95</b>	<b>\$49.99</b>	<b>\$59.90</b>	<b>\$39.95</b>	<b>\$39.95</b>	<b>\$39.95</b>	<b>\$59.99</b>
Overall Rating	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Ratings								
<a href="#">Feature Set</a>	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
<a href="#">Ease of Use</a>	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
<a href="#">Ease of Installation</a>	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
<a href="#">Filtering Effectiveness</a>	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Proportion of people who buy the product	<b>92.56%</b>	<b>2.42%</b>	<b>0.00%</b>	<b>6.23%</b>	<b>1.21%</b>	<b>0.20%</b>	<b>0.00%</b>	<b>0.00%</b>
Filtering Algorithm								
<a href="#">URL Based</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Keyword Based</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Dynamic Categorization</a>	✓	✓	✓	✓	✓	✓	✓	✓
Filtering Capabilities								
<a href="#">Chat Monitoring</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Chat Blocking</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Personal Info Blocking</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Email Filtering</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Peer-to-Peer (P2P) Blocking</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Social Network Reporting</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">PC Game Blocking</a>	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Social Networks</a>	✓	✓	✓	✓	✓	✓	✓	✓

<http://internet-filter-review.toptenreviews.com/>

# Be involved



# Location, Location, Location



Questions ?