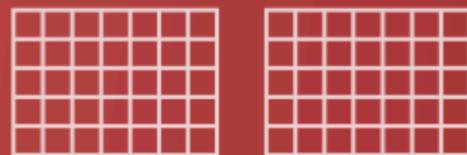




Cove Apple Club

March 28, 2012

APR



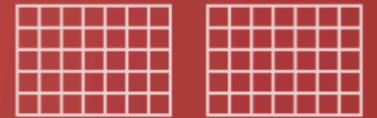
4

**Farewell Snowbirds Party
6:30 PM - 9:00 PM**

Par-tay!

- ◆ A week from tonight!
- ◆ 6:30pm until??
- ◆ All club members & friends welcome!
- ◆ BYOB & a snack to share
- ◆ Clothing optional!

APR



4

**Farewell Snowbirds Party
6:30 PM - 9:00 PM**



The new iPad



Proactive Cybersecurity



Why your passwords suck...

& how to fix it.

Hello, my name is Mike,
and I have **NO FRICKIN' IDEA** what my PayPal password is...

???



Account login 

Email address

PayPal password

Go to
 

[Problem with login?](#)

New to PayPal? [Sign up.](#)

...and I like it that way.

Your passwords probably suck.

- ❖ Most likely, your passwords are:
 - ❖ Too short
 - ❖ Weak
 - ❖ Easy to guess
 - ❖ ... and almost all the same.

Too Short

- ❖ 3- and 4-character passwords can be broken almost instantly
- ❖ 4-character lower-case alphanumeric password = $36^4 = 1,679,616$ possible combinations = a few seconds, max, of CPU / GPU time on a modern desktop computer
- ❖ 8-character lower-case alphanumeric + symbols password = 30 bits of strength or about 1,000,000,000 combinations & permutations. 16 minutes to crack using a desktop computer. ¹
- ❖ 12-character lower-case alphanumeric password = $36^{12} = 4,738,381,300,000,000,000,000,000,000$ combinations = 7,000,000 years to crack on a desktop computer. ¹

Which password is stronger?

13 characters: d0g-----

12 characters: Pkz&1-*cH#8j

Answer: the longer one!

13 characters: d0g-----

12 characters: Pkz&1-*cH#8j

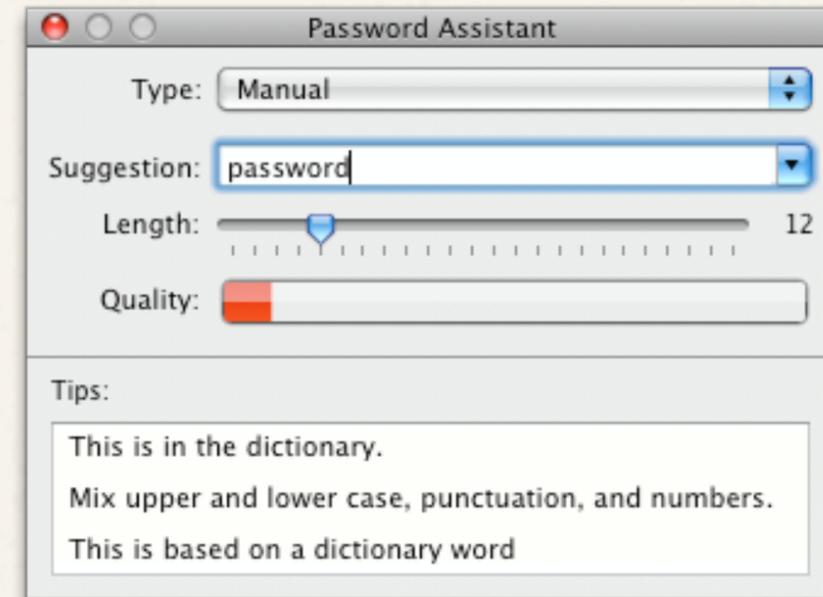
- ❖ The 13-character password is *95 times harder* to crack than the 12-character password, despite being MUCH easier to remember and type!
- ❖ See the effect of password length on attack vector search space at <https://www.grc.com/haystack.htm>

Password length = strength

- * Once your password is more than 8 characters long and not a dictionary word, **LENGTH** is the **ONLY** variable that makes it more secure
- * A potential hacker has **NO IDEA** how *long* your password is, so the longer you make it, the larger the search space they must exhaust

Weak

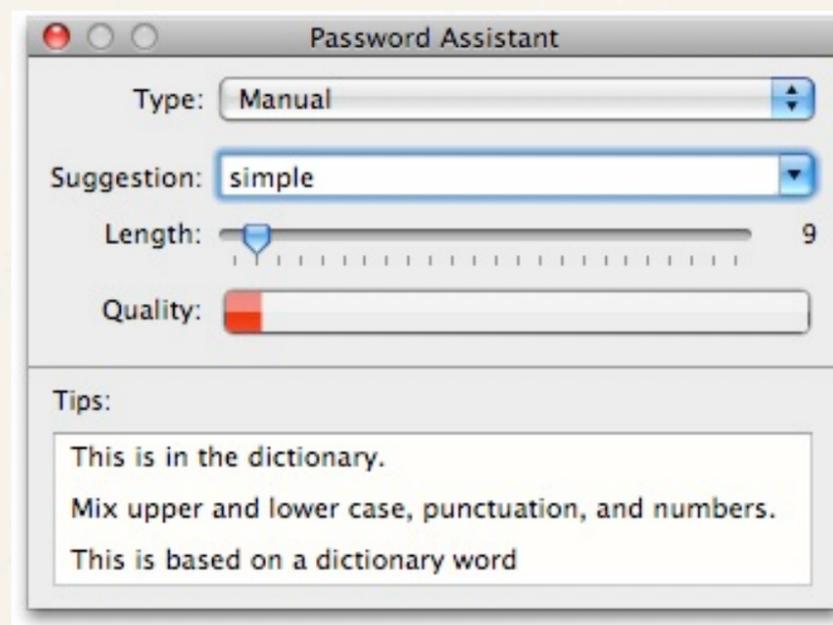
- ❖ Dictionary attacks
- ❖ Birthdate / name / initials combinations
- ❖ Default passwords



500 Worst Passwords of All Time

NO	Top 1-100	Top 101-200	Top 201-300	Top 301-400	Top 401-500
1	123456	porsche	firebird	prince	rosebud
2	password	guitar	butter	beach	jaguar
3	12345678	chelsea	united	amateur	great
4	1234	black	turtle	7777777	cool
5	pussy	diamond	steelers	muffin	cooper
6	12345	nascar	tiffany	redsox	1313
7	dragon	jackson	zxcvbn	star	scorpio
8	qwerty	cameron	tomcat	testing	mountain
9	696969	654321	golf	shannon	madison
10	mustang	computer	bond007	murphy	987654
11	letmein	amanda	bear	frank	brazil
12	baseball	wizard	tiger	hannah	lauren
13	master	xxxxxxxx	doctor	dave	japan
14	michael	money	gateway	eagle1	naked
15	football	phoenix	gators	11111	squirt
16	shadow	mickey	angel	mother	stars
17	monkey	bailey	junior	nathan	apple
18	abc123	knight	thx1138	raiders	alexis
19	pass	iceman	porno	steve	aaaa
20	fuckme	tigers	badboy	forever	bonnie
21	6969	purple	debbie	angela	peaches
22	jordan	andrea	spider	viper	jasmine
23	harley	horny	melissa	ou812	kevin
24	ranger	dakota	booger	jake	matt
25	iwantu	aaaaaa	1212	lovers	qwertyui
26	jennifer	player	flyers	suckit	danielle
27	hunter	sunshine	fish	gregory	beaver

Easy to guess



Check your password strength:
howsecureismypassword.net

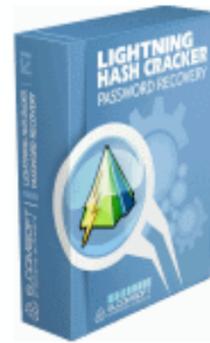
Worst practices

- * Writing passwords down on a Post-It & placing on / near computer / in your wallet
- * Storing all passwords in a document / spreadsheet on the computer
- * Using the same passwords for many different sites
 - * If hackers breach one site, they will instantly try your credentials on hundreds of other top sites...
 - * ...which means you are *totally* and *completely* **screwed**.
 - * Aren't you glad you made things so easy for them?!

*And just in case you're not sufficiently
worried yet...*

PASSWORD RECOVERY SOFTWARE

Lightning Hash Cracker



Accelerated MD5 Password Recovery

Recover original passwords from MD5 hashes lightning fast. Lightning Hash Cracker is a free MD5 recovery tool featuring ElcomSoft's newest acceleration technologies. Lightning Hash Cracker utilizes NVIDIA GPU acceleration to reverse hundreds of thousands of MD5 hashes at once as fast as a single one with almost no overhead. Process the entire list of passwords and obtain the first password in just minutes! Using one or many video cards, Lightning Hash Cracker offers by far the fastest MD5 hash recovery, and is the most technologically advanced free MD5 recovery product currently available on

the market.

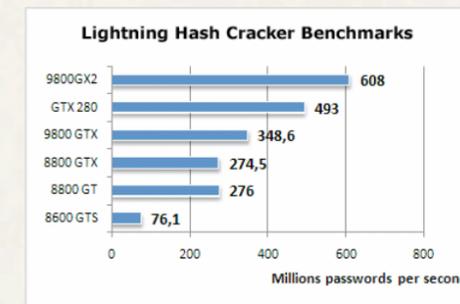


Features and Benefits

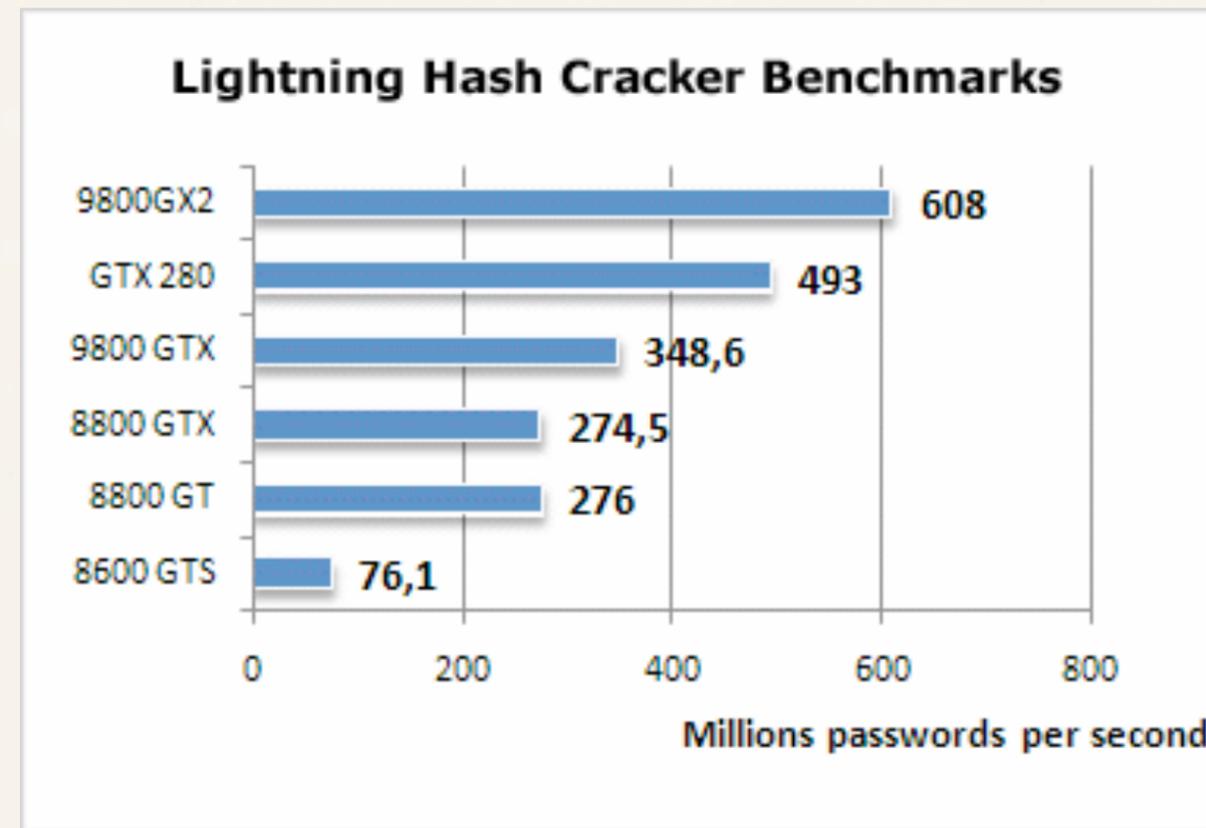
- ★ NVIDIA GPU acceleration (NVIDIA GeForce 8, GeForce 9, GeForce 200) reduces password recovery time by a factor of 20
- ★ Multiple GPU support with linear scalability
- ★ Processes hundreds of thousands of MD5 hashes simultaneously as fast as a single one
- ★ Allows utilizing one or all GPUs among the available ones
- ★ Recovers multiple MD5 hashes at once with almost no scalability overhead
- ★ Password customization allow selecting password length, character set, and starting password
- ★ Interrupt, pause or resume password recovery at any time

NVIDIA GPU Acceleration

Lightning Hash Cracker is the first free MD5 password recovery tool on the market to employ a revolutionary, patent pending technology to accelerate MD5 hash recovery when one or more compatible NVIDIA graphics card are present. Currently supporting configurations with single and multiple GeForce 8, GeForce 9, and GeForce 200 boards, the acceleration technology offloads parts of computational-heavy processing onto the fast and highly scalable processors featured in the NVIDIA's latest graphic accelerators. Simply hook up an inexpensive video card (GeForce 8, GeForce 9, or GeForce 200) to speed up the recovery by a factor of twenty, or use several cards to for even faster MD5 hash recovery!



ElComSoft's Lightning Hash Cracker



Tests 608,000,000 MD5 hash passwords **PER SECOND** using an off-the-shelf consumer-grade \$400 graphics card (GPU).

This software is FREE.

“One *keyring* to rule them all...”

- ❖ New strategy for all your logins / passwords:
 - ❖ You only create, learn and remember **ONE** really good, strong, long, non-dictionary password
 - ❖ You let the *supercomputer sitting in front of you* create, encrypt, remember and **type in *all*** of your other passwords



Your master password unlocks these 4 and *only* these 4 things:

1. Your laptop / desktop at boot-up
2. Your email account: used to recover any lost passwords
3. The 1Password app
4. Your Dropbox account: emergency belt-and-suspenders in case of catastrophe / theft / loss / travel / emergencies

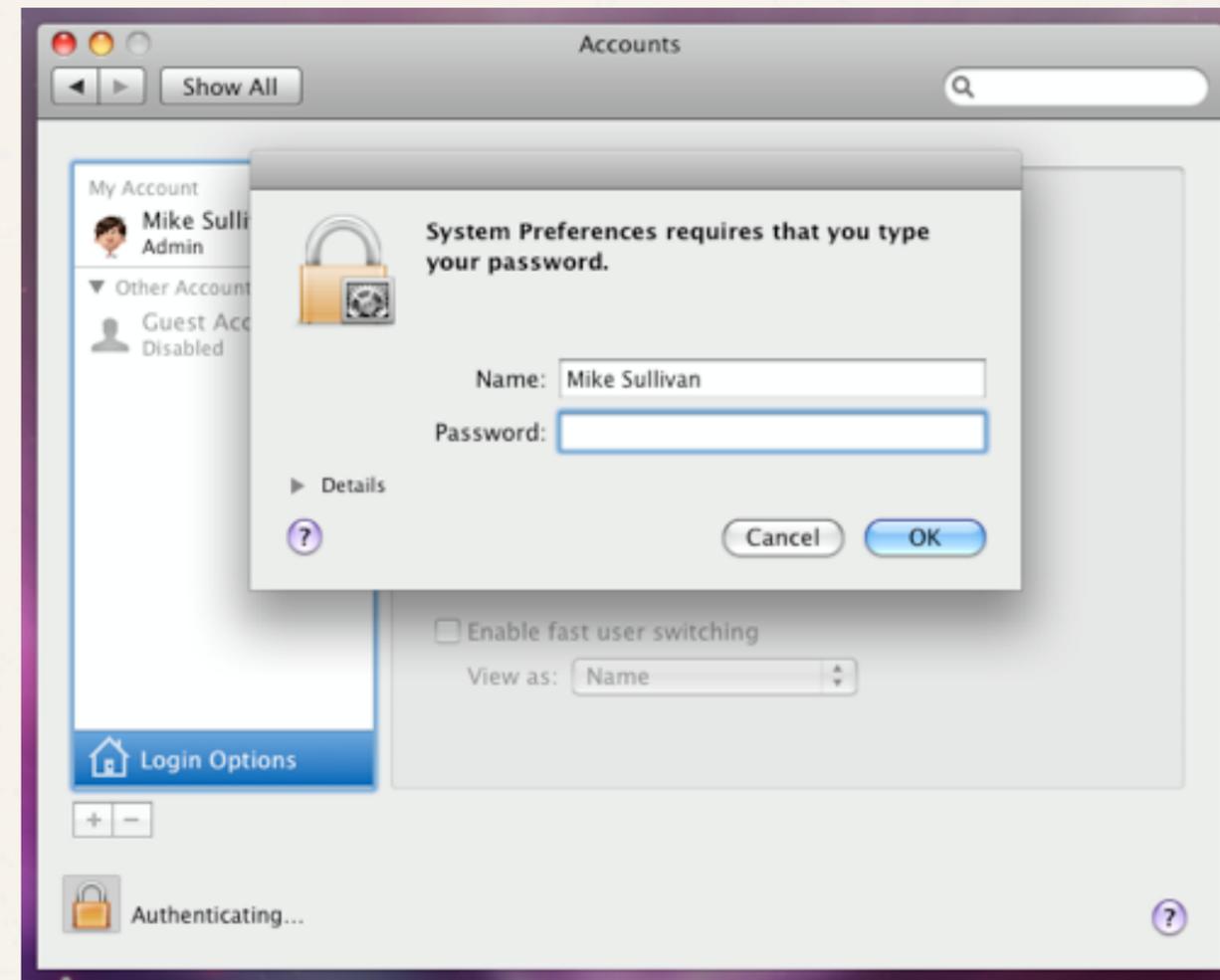


With access to those four things:

- ❖ You can use your computer
- ❖ You can open and use 1Password
- ❖ You can recover / change / verify any other password via email recovery & confirmation with any site
- ❖ You can access Dropbox in an emergency to open and view your 1Password keychain
- ❖ This is a “Fail-Safe” belt-and-suspenders + emergency parachute + life jacket + seawater strobe light + whistle system with no “single point of failure”

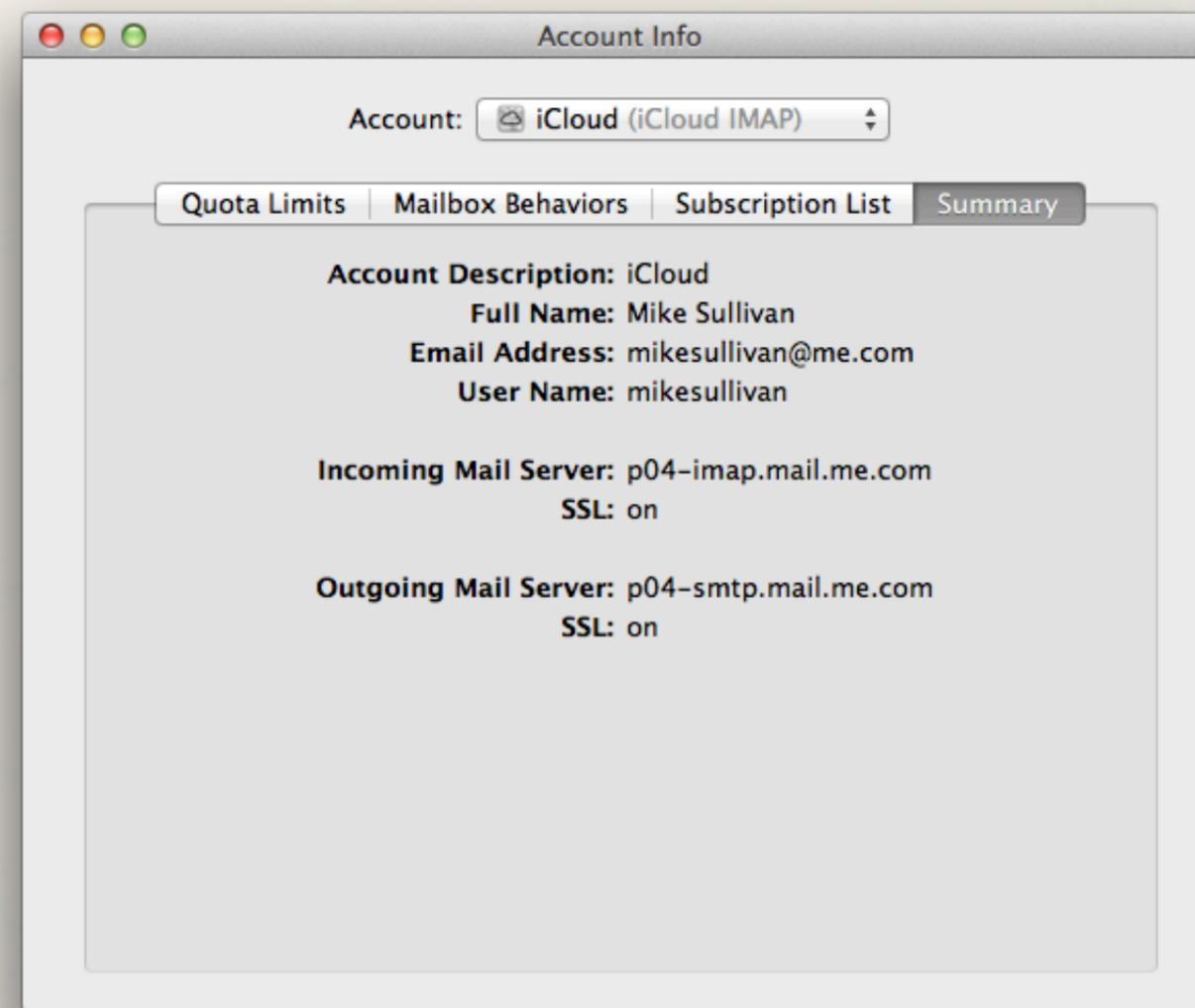
Master Password

- ❖ Used as the login/admin password for your computer & keychain
- ❖ Protects access to all data on the computer
- ❖ Protects the password application itself



E-mail Password

- ❖ Used for your main e-mail server
- ❖ Protects your e-mail account
- ❖ Traffic to & from your e-mail server is secure & encrypted
- ❖ Mechanism by which all other online passwords may be recovered / reset



1Password



- ❖ Automatically remembers & *fills in* your online passwords
- ❖ Can generate, remember and fill in super-strong passwords
- ❖ Built-in phishing, shoulder-surfing & key logging protection
- ❖ Built-in digital wallet stores and fills personal, credit cards, licenses, etc.
- ❖ Stores secure notes & other miscellaneous info & attachments
- ❖ All data in an encrypted keychain file, on Dropbox, where it is also encrypted and backed-up
- ❖ Integrates into all popular Web browsers on the Mac

1Password Demo



iTunes

Search Store

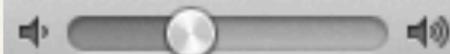
Home Music Movies TV Shows App Store Books Podcasts iTunes U Ping \$34.94 mikesullivan@mac.com

Account Information

Secure Connection

Apple ID Summary

Apple ID:	mikesullivan@mac.com	Edit >
Payment Type:	No credit card on file.	Edit >
Billing Address:	Mr. Mike Sullivan 4421 Cypress Mill Road Kissimmee, FL 34746-2753 (972) 3333532	Edit >
Country/Region:	United States	Change Country or Region >



Music

Movies

TV Shows

App Store

Books

Podcasts

iTunes U

Ping

Account Information

Secure C

Apple ID Summary

Apple ID: mikesullivan@mac.com

[Edit >](#)

Payment Type: No credit card on file.

[Edit >](#)Billing Address: Mr. Mike Sullivan
4421 Cypress Mill Road
Kissimmee, FL 34746-2753
(972) 3333532[Edit >](#)

Country/Region: United States

[Change Country or Region >](#)

iTunes



Search Store

App Store Books Podcasts iTunes U Ping \$34.94 mikesullivan@mac.com

Secure Connection

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Road
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Change Country or Region >

Agile Web Solutions

<http://1Password.com>

also on:

Mac App Store

App Store (iPad / iPhone)

and available for Windows & Android



Why your passwords suck...

& how to fix it.

Cove Apple Club

Have fun & do more with your Mac!



The next time you need some new Mac gear, start your online shopping session with the link to Amazon on this page. Your purchase will earn a little money for the Cove Apple Club, which we'll use to buy a new widescreen video projector for the club! We'll also update club members on the earnings every month.

So be sure to click the Amazon logo below when you need to shop for Mac products online...and "give back" to the Cove Apple Club -- without costing you an extra cent! Thanks!

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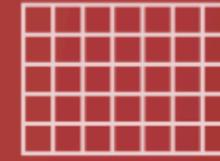
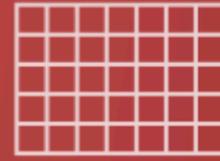
Earnings Report Totals

[Glossary](#)

February 27, 2012 to March 27, 2012

	Items Shipped	Revenue	Advertising Fees
Total Amazon.com Items Shipped	13	\$698.46	\$38.31
Total Third Party Items Shipped 	2	\$51.48	\$3.09
Total Items Shipped	15	\$749.94	\$41.40
Total Items Returned	0	\$0.00	\$0.00
Total Refunds	0	\$0.00	\$0.00
TOTAL ADVERTISING FEES	15	\$749.94	\$41.40

APR



11

Cove Apple Club
7:00 PM - 8:00 PM



Cove Apple Club

March 28, 2012