#### Running Your Mac Lean, Clean, and Mean

with Dave Hamilton

Q&A w/Google Moderator http://tinyurl.com/US931 user: macworldexpo09 pass: macworld09

#### **Q&A** with Google Moderator

 We are using Google Moderator to take questions for this session

> <u>http://tinyurl.com/US931</u> user: macworldexpo09 pass: macworld09

- Submit the questions you want to ask
- Vote on others' questions you want answered

Who are we?

- Dave says: I'll go first
  - Mac Observer 10+ years
  - Mac Geek Gab Podcast almost 4 years
  - Geek... forever!

Who are we?

- Your turn
  - Mac owners?
  - Less than one year?
  - More than 5 years?
  - Consider yourself a geek?
  - Geek in Training?

#### What you'll learn

- How to keep your Mac running clean
- Preventative steps to take before problems hit
- What to do when things aren't right
- Mac Bliss: Some of Dave's favorite tips and apps he uses to keep his Macs running smooth

#### What you won't learn

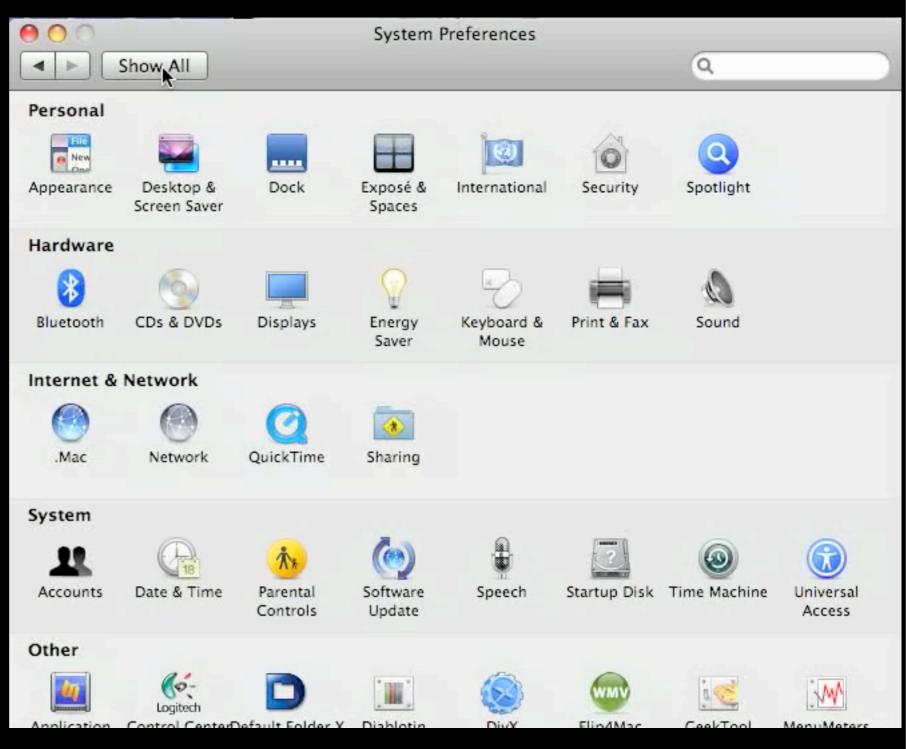
- Not focused on pushing your Mac to its limits
- Goal is to keep a machine running safe and sound so you can get your work done.

### But first... why? What are the benefits?

- Mac builds up cruft over time.
- The more stuff you have on your Mac, the more space it takes up.
- You probably don't use everything on your Mac.
- Prep your Mac -- and yourself -- for the day when disaster \*does\* strike.

### Running Clean Startup Cleanup

- System Preferences >Accounts
- Login items tab
  - Check everything
     here
  - Google what you don't know before removing



### Running Clean Startup Cleanup

000

USERS

USERS

► SYSTEM
► SYSTEM

+ New ► MY AGE

- Check 'launchd'
- Use Lingon http:// lingon.sourceforge.net
- Be careful -- ONLY:
  - My Agents
  - Users Agents
  - Users Daemons

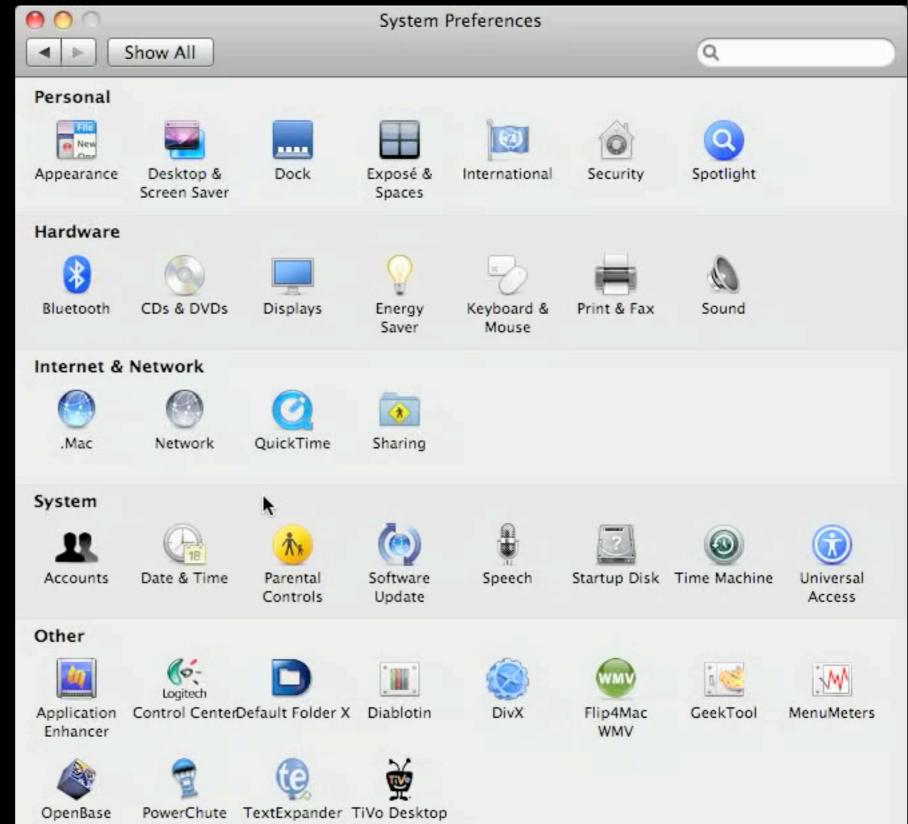
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		Remember to make sure that it clears this folder after it has been run	

### Running Clean File/Module Cleanup

- Check and delete specific items from:
  - ~ & /Library/Internet Plug-Ins
  - ~ & /Library/Input Managers
  - ~ & /Library/Application Enhancers
  - ~ & /Library/Contextual Menu Items
  - ~ & /Library/PreferencePanes
  - /Library/StartupItems
  - /Library/QuickTime

## Running Clean Diablotin

- http://s.sudre.free.fr/
   Software/Diablotin.html
- Lets you edit Startup Items \*and\* Plug-ins, including QuickTime, Internet, Sounds, Fonts
- You can Disable and Re-Enable
- Demo->



### Running Clean File/Cache Cleanup

- OnyX http://www.titanium.free.fr/
- Delete caches automatically

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OnyX		Parameters	Maintenance	Cleaning	Autor	mation	Log Files	Unix Utilities	Info	P	references
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-			Int	ernet 🛛	Caches	Logs	Trash	Misc	-		
			Delete:	Gimp	Caches ove the f	ont cac		Options	crosoft O	ffice an	d
		After del	etion of these f	iles, it's r	ecomme	nded to	restart yo	ur computer.			
(	?								C	Execute	

# Running Clean Spotlight smoothing

- Skip external drives and unnecessary folders
- Drag/Add to Privacy

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Sho	ow All	٩
	Spotlight helps you quickly find things o located at the top right corner of the scr Search Results Priv	reen.
	Prevent Spotlight from searching these lo	ocations:
	Click the Add button, or drag a folder or disk in	
	Sone Gone Gone	
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	Springsville	
	🔤 The Duke	
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	Spotlight menu keyboard shortcut:	Ж Space 💌
	Spotlight window keyboard shortcut:	¥℃ Space

# Running Clean Spotlight smoothing

- Rebuild Spotlight database
- Use 'mdutil' via Terminal
  - sudo mdutil -E [path/to/disk]' path= / or /Volumes/ [disk name]
- Or ... just use OnyX



### Running Clean The BIG secret

- Unix was built for apps to start up and run for months or even years
- Consumers use computers differently: multiple apps, opened and closed regularly/ daily
- As such, Mac OS X's RAM, virtual memory and caches can become full and fragmented
- The BIG secret:
  - REBOOT!

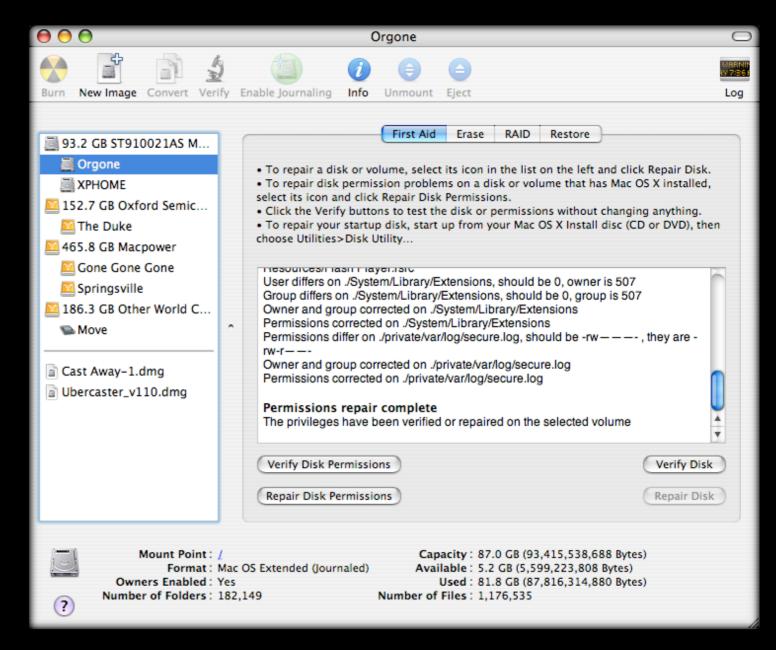
#### Running Clean What we've learned

- Clean up system startup
  - Login Items
  - Launchd (with Lingon)
- Clean old installed modules and apps from specific locations
- Clean caches (manually or using OnyX)
- Tweak and rebuild Spotlight
- Reboot regularly!

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# Preventative Maintenance Disk Utility

- Repair File System and Permissions
- File System Repair needs to be run from different boot drive or DVD



## Preventative Maintenance The SMART way

- Hard drive is important piece of the pie.
- Most drives report their health if asked
- Self-Monitoring, Analysis and Reporting Technology
- Disk Utility shows status
  - Check regularly

000		Hitachi HTS	542525K9S	A00 Medi	a	
Verify Info Burn	Mount Eject	Enable Journaling	New Image	Convert R	Resize Image	Log
<ul> <li>232.9 GB Hitachi</li> <li>My Ship</li> <li>186.3 GB Other V</li> <li>Move</li> <li>MATSHITA DVD-</li> <li>Contactizer Pro.d</li> <li>bbxmercuryextra</li> <li>belkin wireless us</li> <li>disk6.cdr</li> <li>RTUSB D70-1.1.3</li> </ul>	HTS54 Vorld C R UJ-867 Img Is.dmg sb nic f	If you're having trou • Click Repair Disk. • If Repair Disk is un your Mac OS X ins	First Aid En	rase Part elected dis fails, back u ck Verify D , and then o	tition RAID Restore	airs, start up from tility.
Connecti	ription : Hitachi H on Bus : Serial AT n Type : Internal	ITS542525K9SA00 M 'A 2		M.A.R.T. St	acity : 232.9 GB (250,05) atus : Near) atus : Verified eme : CUID : on Tab	

### Preventative Maintenance Disk Warrior 4

- DW is utility for rebuilding damaged or fragmented directories.
- Not repair... just rebuild. Subtle difference.
- Also Automatic SMART-testing agent
- Available at www.alsoft.com \$99.95

ptimized directories have zero items out of orde

0 0				Orgone Grap	bh				
Directory graph for "Orgone" crea		2:01:16 PM.							
244,787 of 2,706,002 items are o	out of order (9%).	. Stop 25 - 1	 -	11 12 12		1.17.1.21.21.004	JER DEMARDEN	0.000.001.001.0000	
			3						
			l le s	No. 1					
Example graph for an optimized directo									

### Preventative Maintenance Drive Genius 2

- Rebuild Directory
- Repair Directory
- Defragment Disk
- Surface Scan (Integrity Check)
- Repartition
- Duplicate
- www.prosofteng.com
   \$99.00



### Preventative Maintenance Command Line Startup

- Boot to Single User Mode with Command(Apple)-S on startup
- Then run 'fsck / -fy' -- that will check and, if necessary, repair your boot volume
- Bonus is that you can do this without booting from a separate disk!

# Preventative Maintenance AppleJack

- Command-line Only utility.
- Meant to fix major problems.
- Install NOW -- \*before\* disaster strikes!
- http://applejack.sourceforge.net/

```
Enter the associated number or letter to choose your maintenance task.
It is strongly recommended you do them in the order listed!
[a] auto pilot. Script will do all tasks sequentially.
[1] repair disks
[2] repair permissions
[3] cleanup cache files
[4] validate preference files
[5] remove swap files
[q] : Just quit, thank you very much.
Your choice:
```

### Preventative Maintenance Disk Overview

- Directory Repair
  - Disk Utility
  - Disk Warrior
  - Drive Genius
  - 'fsck' from command-line/Terminal
  - AppleJack from command-line/Terminal

### Preventative Maintenance System Scripts

- What they do
  - daily removes log files, temporary files, backs up the NetInfo database, rotates your system.log
  - weekly rebuilds locate and 'whatis' unix databases, rotates less-frequently filled logs
  - monthly reports per-user accounting and rotates even more logs.
- 'daily' script is the key to happy life on your Mac

### Preventative Maintenance System Scripts

- Running them
  - If your machine is on all the time, they run no problem
  - If not, they may or may not run, so manually run them
    - Terminal 'sudo periodic daily weekly monthly'
  - Or... Onyx, of course!

### Preventative Maintenance Test Account

- Go to System Preferences->Accounts
- Create new "Test" user with Administrative Privileges
  - Remember the password

 Good when your system starts acting funky. You can log in as this user. If successful with test operations, you know it's a user preference and not a system-wide issue

### Preventative Maintenance The BIG secret

- Well, rebooting doesn't hurt
- But Backing Up is better
  - Time Machine Built into Leopard
  - Prosoft Data Backup http:// www.prosofteng.com/
  - Retrospect http://www.emcinsignia.com/
    - Great for network backups of multiple machines

#### Preventative Maintenance What we've learned

- Keep our drives happy
- Install AppleJack for a rainy day
- Run system maintenance scripts
- Create a test user
- Let's say it together...
  - BACKUP!
- and as a bonus...
  - REBOOT!

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### Disaster Strikes Machine Won't Boot

- Go to command line, run 'fsck' or AppleJack (you did install it, right?)
- If those find problems, run them \*again\* until they run clean
  - Tiger and Leopard do this automatically.
- Boot from Mac OS X CD/DVD and run Disk Utility
- Boot from DiskWarrior and rebuild directory
- FireWire target-disk mode to another Mac to copy data and punt!

Disaster Strikes Data Recovery

- FireWire Target Disk Mode
  - Copy Data to other Mac, then reformat, reinstall.
- Prosoft's Data Rescue
  - For when the files can't simply be copied

- Don't trust a failed drive again
  - They're too cheap to roll those dice

## Disaster Strikes Taking it in

- If under AppleCare and \*not\* accidental damage, call AppleCare or visit local Apple Store.
  - Aside: Buy AppleCare
- 3rd parties for non-AppleCare and damagerelated issues
  - TechRestore http://www.techrestore.com/
  - iResQ http://www.iresq.com/ Formerly MacResQ

#### Disaster Strikes What We've Learned

- Try command-line solutions first
- Boot from CD/DVD and run Disk Utility
- Then Disk Warrior and/or Drive Genius
- Then boot from another Mac, if available, and user Target Disk Mode to copy files
- Reformat and restore from Backup
- Send it in!

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### Mac Bliss Defragmenting/Optimization

- Used to be all but mandatory
- Unix changes a lot of that
  - Mac OS X keeps a "hot list" and optimizes smaller, recently-used files for you
- If you repeatedly push up against the full size of your drive, fragmentation will exceed acceptable limits
- Prosoft's Drive Genius defragments
  - But rebuild directory with Disk Warrior first!

# Mac Bliss Speeding up Finder

- Disable "Calculate all sizes" in list view
  - View->As List
  - View->Show View Options
- Reduces disk access when browsing folders



### Mac Bliss - OmniDiskSweeper

- Finds sizes of everything on your drive
- Registered Version lets you delete
- www.omnigroup.com
   \$14.95
- Demo->

000		Orgone - 81.1 GB
1	TheFindByContentFo	lder
10.2 MB 9.8 MB 9.2 MB 5.6 MB 988.0 kB 960.0 kB 576.0 kB 80.0 kB 16.0 kB 16.0 kB 16.0 kB 4.0 kB	Users       >         Applications       >         Library       >         Previous Systems >       >         private       >         System       >         Warez       >         usr       >         Temp       >         mach_kernel.ctfsys       >         mach_kernel       >         bin       >         sbin       >         Installer Log File       .hotfiles.btree         Desktop DF       Desktop DB         TheVolumeSettin       >         Volumes       >         .DS_Store       >         etc       Icon         Icon       mach         tmp       User Guides And Int         var       .Archived_Directr >         .com.apple.timema       .fseventsd         .Spotlight-V100       .         .Trashes       >	older
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TheFindByContentFolder 0 bytes

### Mac Bliss - Activity Monitor

- Built into Mac OS X
- /Applications/Utilities/ Activity Monitor
- Real-time output of CPU, RAM, Network usage, also shows emulation
- Demo->

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73247	dave	🚮 iTunes	0.4	46.92 MB	17.17 MB	490.16 MB	8 Intel	
95902	dave	🔁 iChat	0.1	66.67 MB	31.86 MB	604.48 MB	3 Intel	
65	dave	loginwindow	0.1	7.34 MB	8.34 MB	326.32 MB	3 Intel	
76405	dave	iCal	0.1	46.75 MB	17.70 MB	443.58 MB	3 Intel	
94970	root	RetroRun	0.1	1.55 MB	1.26 MB	96.57 MB	B PowerPC	
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					CPU Us	age		
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### Mac Bliss MenuMeters

- At-a-glance access to System State/health
- Memory, Network, Disk, CPU Usage in the menu bar
- http://www.ragingmenace.com/



# You rang?

- Question Time
  - Ask away! It's free (sort of)
  - Fill out that survey form!
- Download link: <u>http://macpres09.shownets</u>.net

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### Wrap Up/Q&A Software/sites mentioned

- Onyx http://www.titanium.free.fr/
- AppleJack http://applejack.sourceforge.net/
- DiskWarrior http://www.alsoft.com/
- Drive Genius, Data Backup http://www.prosofteng.com/
- MenuMeters <u>http://www.ragingmenace.com/</u>
- <u>dave@macobserver.com</u> -- <u>http://www.davethenerd.com</u>/
- Download: <u>http://macpres09.shownets.net</u>/