Running Your Mac Lean, Clean, and Mean

with Dave Hamilton

Who are we?

- Dave says: I'll go first
 - Mac Observer Over 17 years
 - Mac Geek Gab Podcast almost 11 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?
 - Seen my Lean/Clean/Mean before?

What you'll learn

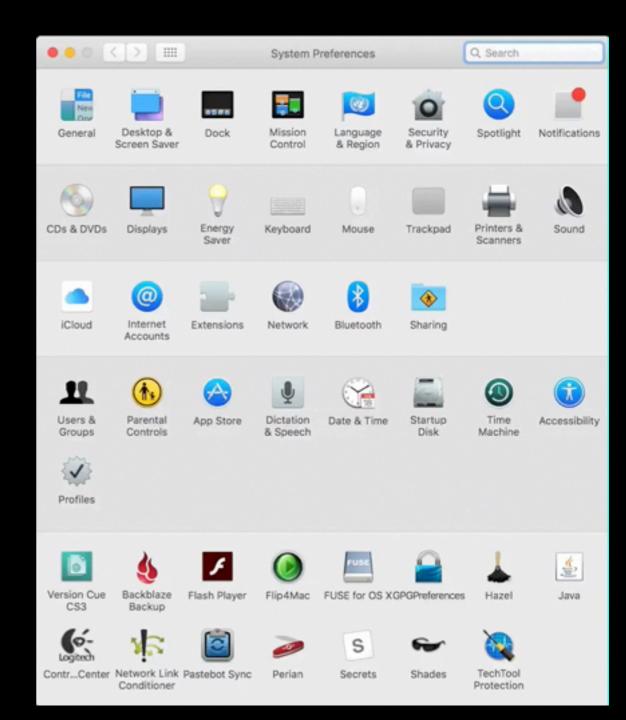
- How to keep your Mac running clean
- Preventative steps to take before problems hit
- What to do when things aren't right
- Mac Bliss & Cool Stuff Found: Some of Dave's favorite tips and apps he uses to keep his Macs running smooth

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.

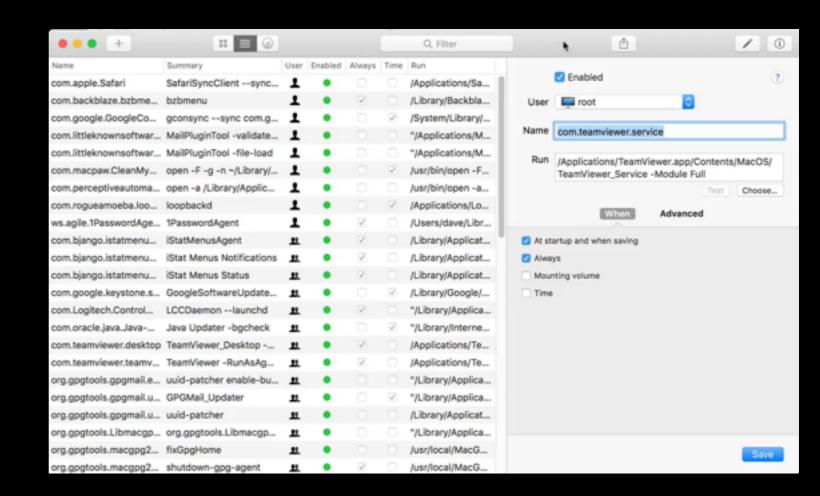
Running Clean Startup Cleanup

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



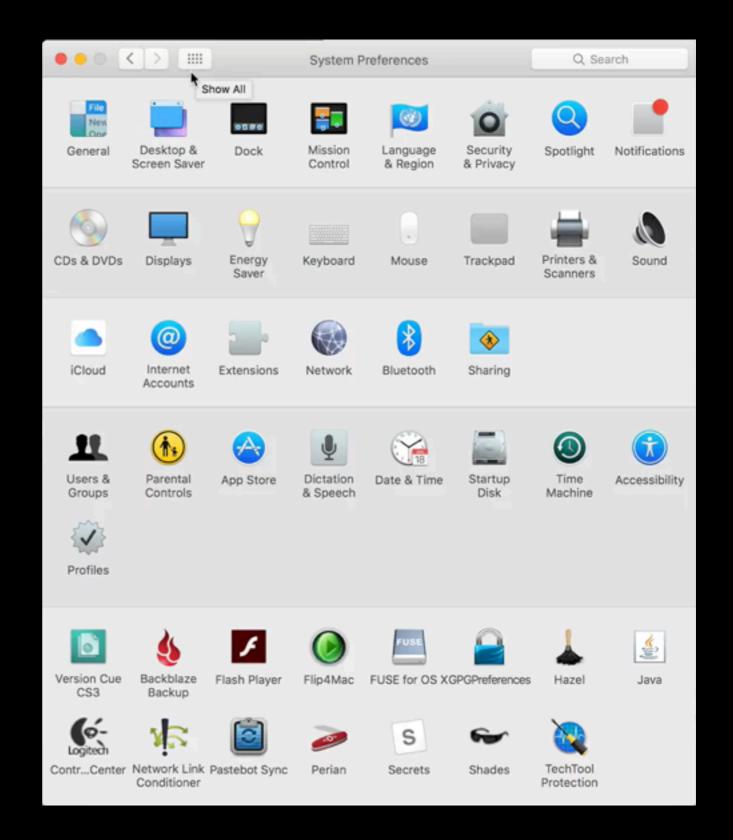
Running Clean Startup Cleanup

- Check 'launchd'
- Use Lingon peterborgapps.com/ lingon/
- Be careful!



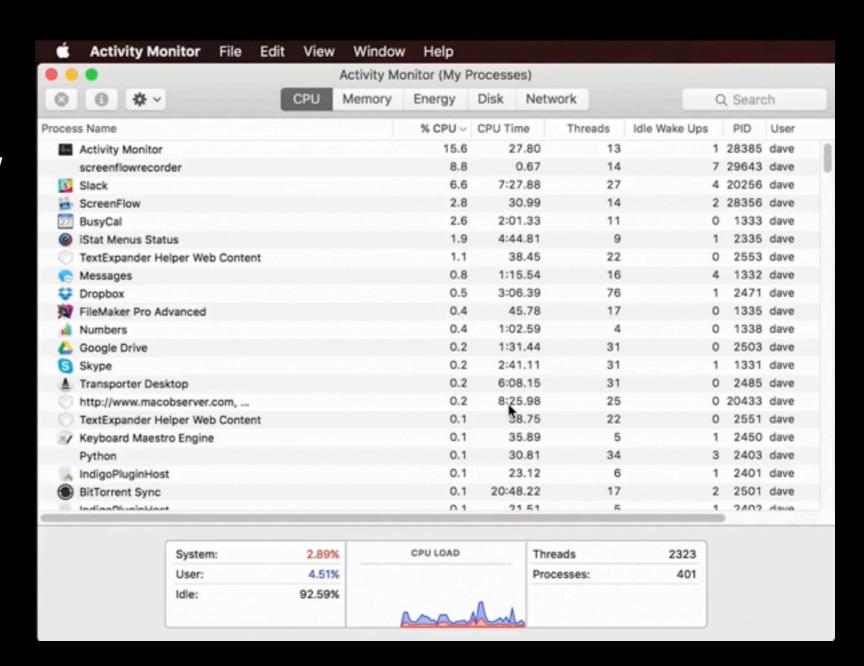
Running Clean Extensions

- You can Disable and Re-Enable
- Demo->



Running Clean Activity Monitor

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



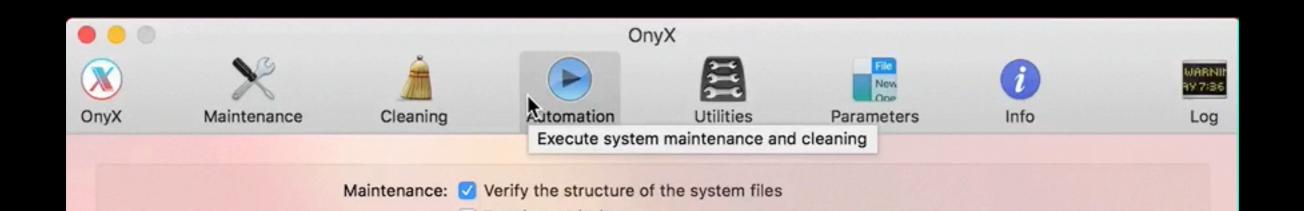
Tangent - Cool Stuff Found iStat Menus

- At-a-glance access to System State/health
- Memory, Network, Disk, CPU Usage, Temperature in the menu bar
- http://bjango.com/mac/istatmenus/ US\$18



Running Clean File/Cache Cleanup

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



Tangent - Cool Stuff Found OmniDiskSweeper

- Finds sizes of everything on your drive
- Free at <u>www.omnigroup.com</u>
- Demo->

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, 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 caches (manually or using OnyX)
- Reboot regularly!

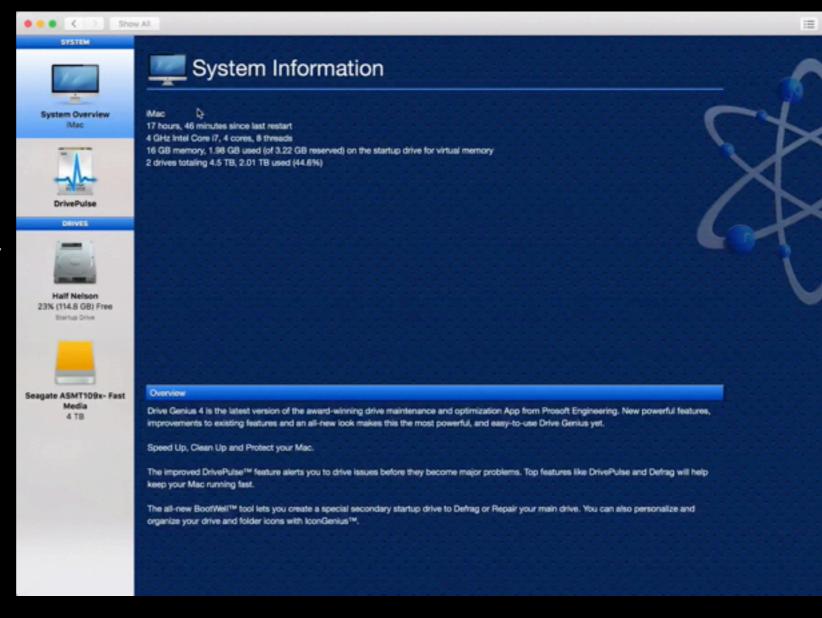
Preventative Maintenance Disk Utility

- Repair File System
- File System Repair can be run from boot drive. Better if run from Recovery Partition with CMD-R at boot.



Preventative Maintenance Drive Genius 4

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



Tangent Defragmenting/Optimization

- NOT FOR SSDs!
- Used to be all but mandatory
- Unix changes a lot of that
 - 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 first!

Mac Bliss SSD Drives

- Ongoing MGG Obsession
- Less and less expensive
 - 240 GB = \$70
 - 480 GB = \$129
 - 960 GB = \$269
- System-wide Speed Upgrade
 - Reduces seek latency to (nearly) zero
- Don't defrag!
- Kingston, Crucial, OWC, OCZ, Samsung

Preventative Maintenance Command Line Startup

- Boot to Single User Mode with Command-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 Disk Overview

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

Preventative Maintenance System Scripts

- What they do
 - daily removes log files, temporary files, backs up the Netlnfo 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
 should 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->Users & Groups
- Create new "Test" user with Administrative Privileges
 - Remember the password

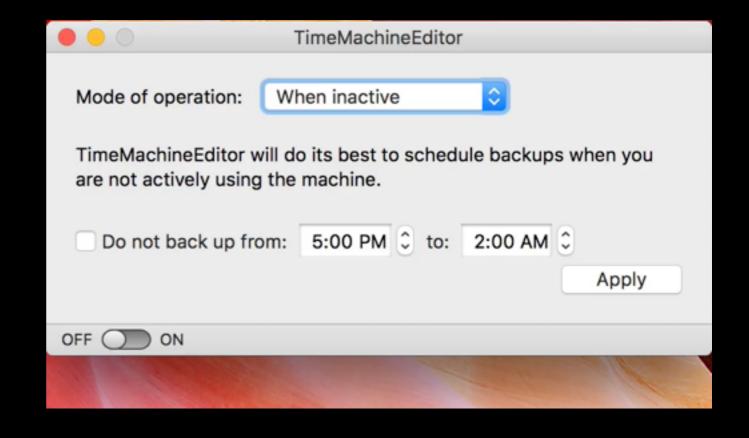
Good when your system starts acting funky.
 You can log in as this user. If successful with test operations, you know it's a user preference and not a system-wide issue

Preventative Maintenance The BIG secret

- Well, rebooting doesn't hurt
- But Backing Up is better
 - Time Machine Built into OS X
 - Carbon Copy Cloner http:// bombich.com
 - Prosoft Data Backup http:// www.prosofteng.com/

Tangent - Cool Stuff Found TimeMachineEditor

- Time Machine Backs
 Up Every Hour
- Can slow down your machine
- http:// timesoftware.free.fr/ timemachineeditor/
- Must Turn TimeMachine Off
- Demo->



Preventative Maintenance What we've learned

- Keep our drives happy
- Run system maintenance scripts
- Create a test user
- The Secret:
 - BACKUP!
- and as a bonus...
 - REBOOT!

Disaster Strikes Machine Won't Boot

- Go to command line, run 'fsck'
- If that finds problems, it will fix them and automatically run again until it runs clean.
- Boot from Recovery Mode (Cmd-R) and run Disk Utility
- Boot from Drive Genius and rebuild directory
- Target-disk mode to another Mac to copy data and punt!

Disaster Strikes Data Recovery

- 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 Genius Bar.
 - Genius Bar diagnostics are FREE
 - 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/single-use mode first
- Boot from Recovery Mode and Run Disk Utility
- Then 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!

Mac Bliss - Battery Conditioning

- Check System Profiler for Full charge capacity (mAh) and Cycle count
- Full charge capacity Max is different for each. Most above 5000 (4000 for Airs) when new. Apple allows for 20% degradation.
- If cycle count is <300 on removables or <1000 on builtin, still covered if you have AppleCare or Warranty.
- Don't Leave Charging 100% of time.
- Apple says discharge once/month, I say twice, at least.
- Abuse your battery. Run FruitJuice!
 - http://fruitjuiceapp.com

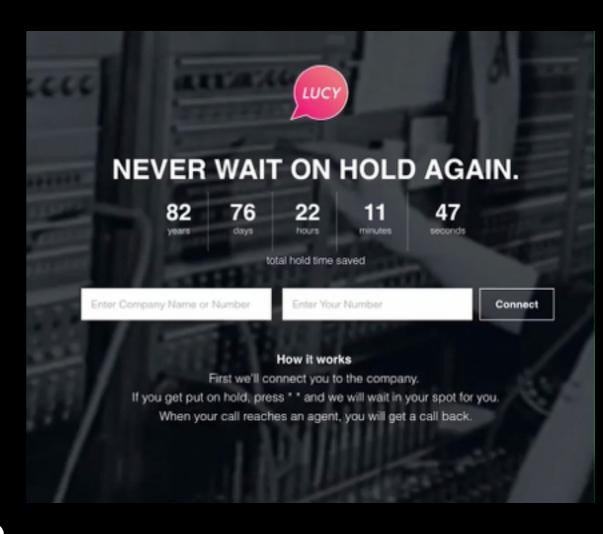
Mac Bliss Hazel



- Automated Organization for your Mac
- Watches your files and folders so you don't have to
- Auto-sort downloads
- Delete support files along with apps
- Auto-empty trash on schedule
- \$32 from Noodlesoft.com
- Demo(s)! ->

Mac Bliss LucyPhone

- Waits on hold so you don't have to.
- Calls you back when you're needed.
- Free!
- From your Mac (lucyphone.com) or iDevice (dedicated app)
- Demo->



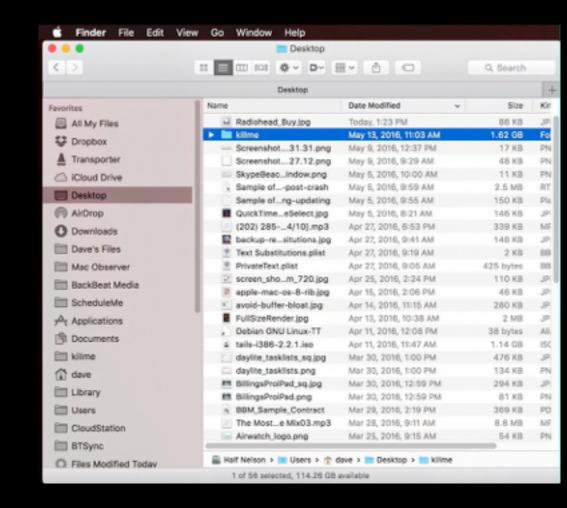
Mac Bliss PowerLine Networking



- Use your electrical system to transmit Ethernet signals
- Get PowerLine AV, not previous models
- 200Mbps max, usually about 100Mbps
- Can span circuits now
- Connect two WiFi Access Points Together
- \$35/pair for TP-Link AV500 2-pack at <u>amazon.com</u>

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



Wrap Up/Q&A

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- feedback@macgeekgab.com
- Yes, feedback@macgeekgab.com