

# WHEN THE CHIP HITS THE FAN

Bob “Dr. Mac” LeVitus

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When the Chip Hits the Fan

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*There are only two kinds of computer users:  
Those who have lost data in a crash, and those who will...*

— Dr. Macintosh: Tips, Techniques and Advice on Mastering the Macintosh  
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and those who will...

— Dr. Macintosh: Tips, Techniques  
and Advice on Mastering the  
Macintosh  
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I wrote those words in my first book,  
Dr. Macintosh: Tips, Techniques and  
Advice on Mastering the Macintosh,  
way back in 1989 and they’re still

## THE PLAN:

- Overview of strategic issues and individual needs
- Why at least one backup has to be stored offsite
- Why “clone” backups are different and why they’re awesome
- Time Machine/Time Capsule
- Third-party backup and cloning software
- About backup disks
- Backup-to-the-cloud services
- Q & A

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Here’s the plan:

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awesome
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cloning software
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## STRATEGIC ISSUES

- Is all your data on a single hard disk?
- How much data can you afford to lose?
- How many separate backups do you need?
- How quickly do you need to be back at work after a catastrophe?
- What's your budget?

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- Is all your data on a single hard disk? Or spread across two or more (like me).
- How much data can you afford to lose? (Drivesavers)
- How many separate backups do you need? (The wonderfulness of redundancy.)
- How quickly do you need to be back at work after a catastrophe? (Clones are awesome.)
- What's your budget?

## OFFSITE BACKUP(S)

- What if...
- Just do it.

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- What if... Your home office were vaporized by vulcans or...
- Just do it.

## TIME MACHINE/TIME CAPSULE

- Good first line of defense
  - Or not
- Why I recommend Time Machine
- Why I don't recommend Time Machine as your only backup

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- Good first line of defense.
- Or not.
- Why I recommend Time Machine
- Why I don't recommend using Time Machine as your only backup

# CLONING

- it's not just for sheep anymore...
- Why a clone can save your bacon  
(and why I create one automatically every night)

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- it's not just for sheep anymore...
- Why a clone can save your bacon  
(and why I create one automatically every night)

# THIRD-PARTY SOFTWARE

- CrashPlan
- SuperDuper (or Carbon Copy Cloner)
- ChronoSync

From: Bob LeVitus bob@code42.com  
Subject: ChronoSync Notification (aCrashPlan)  
Date: May 21, 2014 at 11:15 AM  
To: Bob LeVitus bob@code42.com

[2014-05-21 11:15:14 -0500] WARNING: 1 error occurred during the synchronization.  
- Scheduled: Bug Spray to Storage F has finished.

Reporting period: June 7, 2014 - June 10, 2014

Source -> Target	Selected	Files	Backed Up %	Last Completed	Last Activity
MacBook The White X81 -> Another CrashPlan Cdn.	205,928 (1,028)	589 (1)	100.0%	5.4 hrs	5.4 hrs
MacBook The White X81 -> CrashPlan Center	205,928 (1,028)	589 (1)	100.0%	5.5 hrs	5.5 hrs

CODE42  
This is a message from CODE42 Software, Inc.  
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- CrashPlan (Click for Backup Status Report)
- SuperDuper (or Carbon Copy Cloner)
- ChronoSync (Click for Notification)

# THE DISK DILEMMA

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Talk about buying external drives with power supplies and fans...

Capacity	Price
0.5 TB	\$71.2
1.0 TB	\$119
1.0 TB	\$133
2.0 TB	\$157
3.0 TB	\$209
3.0 TB	\$195
4.0 TB	\$249

Drive docks  
 -how they work  
 -connection types (FW, USB 2 or 3, Thunderbolt)  
**Click:** drive prices

## CLOUD BACKUPS

- CrashPlan
- All the others

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CrashPlan  
 All the others

## REDUNDANCY ISN'T BAD

Device	Capacity
BootsMBP	1TB
Machine of Time	2TB
Storage I	4TB
Storage II	4TB
Audio & iTunes	3TB
Bob's Big Boy for CrashPlan	2TB
Bug Spray Thunder	4TB

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- My disks
- BootsMBP (1TB SSD)
- Machine of Time 2TB
- Storage I 4TB
- Storage II 4TB
- Audio & iTunes 3TB
- Bob's Big Boy for CrashPlan 2TB
- Bug Spray Thunder 4TB

**YOU GOT QUESTIONS?  
I GOT ANSWERS! MAYBE...**

Think Like a Mac Geek

You Got Questions?  
I Got Answers! Maybe...

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