

# Switching from PC to Mac

Lorrin R. Garson



**OPCUG & PATACS — June 20, 2015**

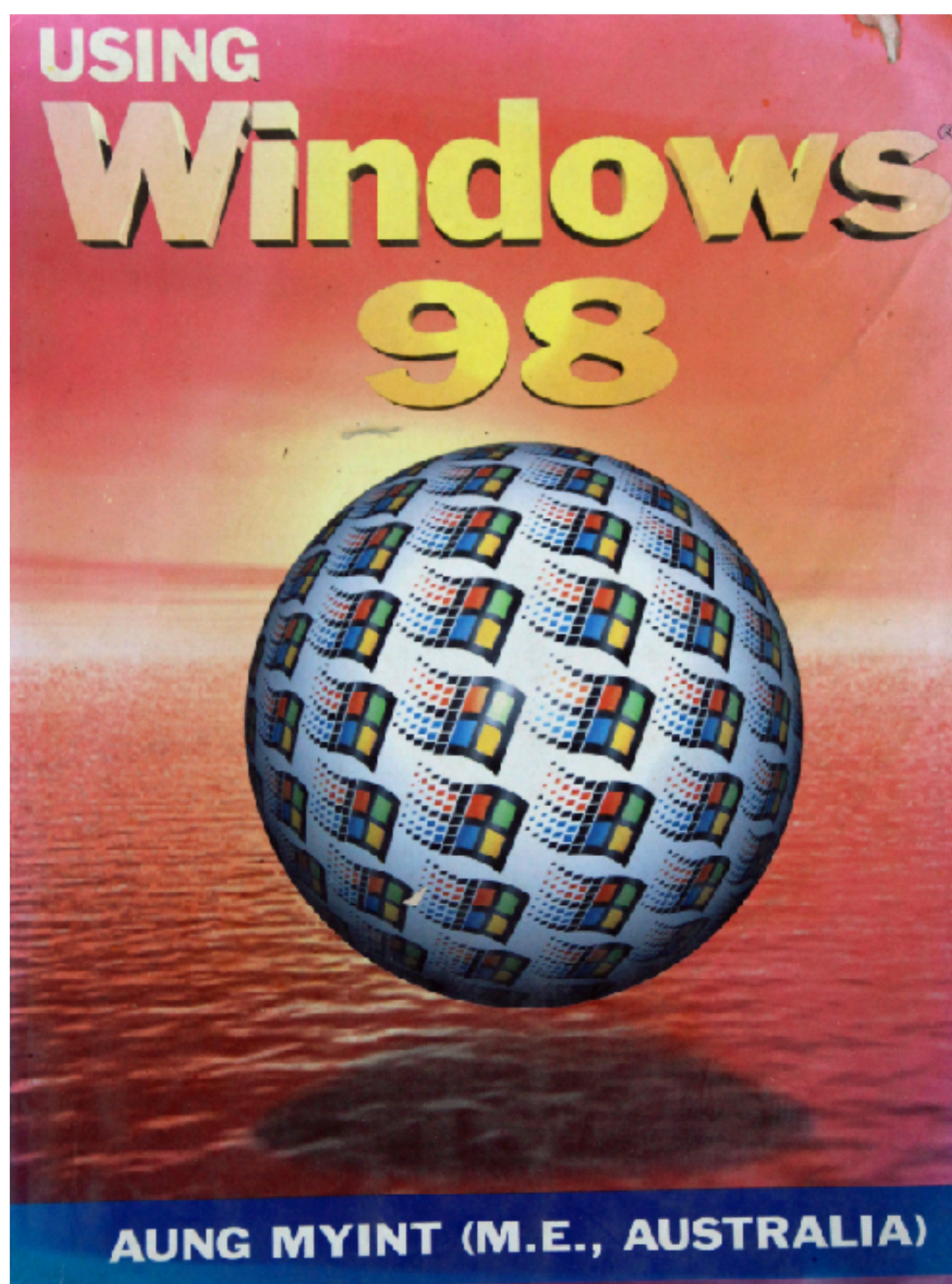
**Presentation scheduled for February 21, 2015**





Yangon  
Myanmar

March 21, 2015





# Topics to Cover

- Our experience in switching from PCs to Macs
  - ✓ Why we switched
  - ✓ What was easy
  - ✓ Challenges
  - ✓ Surprises
  - ...how it's going today

# Background: Systems I've Loved and Hated

- Unix
  - Unix System V
  - DEC Ultrix
  - Sun Solaris
- AMOS (**A**lpha **M**icro **O**perating **S**ystem)
- DOS
- Windows (several versions)
- Apple (“system software”—pre-OS X)
- Apple OS X Yosemite (10.10.3)

# Order Form

Mail 3 copies of this order form with payment.

Orders must be postmarked no later than May 10.

**Keep this copy for your records.**

Fairfax County Public Schools  
O.S.D.T.  
7423 Camp Alger Avenue  
Falls Church, VA 22042

**\$6248.54**  
**2015 dollars**

Name Ann S. Garson  
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School/Office Lake Braddock Sec. Administrative Area IV  
City Burke State VA Zip Code 22015  
Driver's License No. VA568529017 Work Phone 703/323-9006

Apple Part Number	Product Description	Internal Use	Price	+	Tax	=	Your Selection Price
<input type="radio"/> M0435LL/A	Macintosh Classic	_____	\$1,094.00	+	\$ 49.23	=	_____
<input type="radio"/> B0060LL/A	Macintosh SE/30	_____	2,145.30	+	96.54	=	_____
<input type="radio"/> B0431LL/B	Macintosh IIsi	_____	3,205.60	+	144.25	=	_____
<input type="radio"/> B0406LL/A	Macintosh LC	_____	1,897.00	+	85.37	=	_____
<input checked="" type="radio"/> B0474LL/A	Macintosh LC w/PP	_____	1,972.00	+	88.74	=	<u>2060.74</u>
<input type="radio"/> A9P0329/A	ImageWriter Printer	_____	393.00	+	17.69	=	_____
<input checked="" type="radio"/> B0545LL/A	Personal LaserWriter LS	_____	813.30	+	36.59	=	<u>849.89</u>
<input type="radio"/> B0341LL/A	Personal LaserWriter NT	_____	1,723.00	+	77.54	=	_____
<input type="radio"/> M6033/C	AppleCD SC	_____	713.30	+	32.10	=	_____
<input type="radio"/> M6023/A	Apple Scanner	_____	1,343.30	+	60.45	=	_____
<input type="radio"/> B0420LL/A	Apple Data Modem 2400	_____	265.27	+	11.94	=	_____
<input checked="" type="radio"/> M0444LL/A	Apple IIe Card	_____	123.30	+	5.55	=	<u>128.85</u>
<input checked="" type="radio"/> A9M0107	Apple 5.25 Drive	_____	230.30	+	10.36	=	<u>240.66</u>
<input type="radio"/> 50201U	Claris PowerPack	_____	179.00	+	8.06	=	_____
<input type="radio"/> 50104U/A	Claris MacWrite/MacPaint	_____	99.00	+	4.46	=	_____
<input type="radio"/> 81633U	Claris FileMaker Pro	_____	119.00	+	5.36	=	_____
<input checked="" type="radio"/> ESK	Educator Starter Kit	_____	139.95	+	6.30	=	<u>146.25</u>
<input checked="" type="radio"/> PER	Aldus® Persuasion™	_____	125.00	+	5.63	=	<u>130.63</u>

Attach cashier's check or money order for the total amount, including tax and shipping, payable to Fairfax County Public Schools. No personal checks, certified checks, credit cards, or partial cash payments will be accepted.

Subtotal 3557.02  
Shipping/Handling \$40.00  
TOTAL 3597.02

This order will be null and void in the event that a minimum of 50 units is not achieved. This means that 50 employees must purchase under this program to get this price.

### FCPS Employee

I certify that:

- I am currently a full-time or part-time (19 or more hours per week) employee of the educational institution listed above. You have my permission to verify my eligibility.
- The Apple computer system I am purchasing is for my personal use in my profession as an educator and will not be resold for at least one year.
- I understand that under this program I am permitted to purchase a computer system every two years. (The exception is for employees who want to purchase the Macintosh LC. In this case, the two year rule is waived.)

4) I understand that due to high demand, Macintosh Classic orders are subject to availability of product. (Please note: Due to high customer demand and a current shortage of supply, all orders which include the purchase of an Apple Macintosh Classic computer will be subject to a delivery period of up to ten weeks from the date Apple receives the order.)

Signature Ann S. Garson Date 5/6/91  
Title High School Teacher

### Authorized Institution Representative

As duly authorized by the institution named above, I certify that the individual named on this form is an eligible, professional employee of this accredited public or private nonprofit educational institution and is directly involved in the instructional process.

John D. [Signature]  
Authorized Institution Representative's Signature (e.g., Principal)

5/6/91  
Date

- I would like to attend the one-hour Macintosh orientation session scheduled for distribution day.
- I'm already familiar with the Macintosh. Please don't schedule me for the one-hour orientation session on distribution day.
- In either case, I plan to attend the 12-hour training class.**

[Signature]  
Authorized Institution Representative's Title

INTERNAL USE: Customer # \_\_\_\_\_ Check # \_\_\_\_\_ Approval # \_\_\_\_\_ Balance Due \_\_\_\_\_  
Date rec'd. Deposit Date \_\_\_\_\_ Amount \_\_\_\_\_ Credit Limit \_\_\_\_\_ Refund Due \_\_\_\_\_ 8

**Macintosh LC**





# Microsoft's and Apple's Cultures












**Greek**







**Roman**

# Microsoft's Culture







- The dominant perception is negative
  - ✓ “Windows 8 review: Yes, it’s that bad” 
  - ✓ “Microsoft: Oops! We Did It Again”   click here
  - ✓ “Microsoft Considering Renaming Internet Explorer Due To Negative Perceptions” 
  - ✓ “Microsoft patches critical bug that affects every Windows version since ‘95” [November 12, 2014] 
- All is not bad, see    

\*Internet Explorer will be replaced by Microsoft Edge in Windows 10

# Apple's Culture

- The dominant view of Apple is positive
  - ✓ “Apple computers are truly a wonderful gaming platform” 
  - ✓ “Yosemite is terrific!” 
  - ✓ “The Subtle Brilliance of Apple's Product Names” 
  - ✓ “Early Apple-1 computer sells for \$905,000...” 

# Apple's Culture (cont.)

- ✓ Apple achieves 13% computer market share in U.S. November 2014 
- ✓ 4<sup>th</sup> quarter 2014: Apple's most profitable quarter ever 
- There is criticism of Apple    

# Summarizing the Perceptions in Five Words...

- Microsoft can do nothing right
- Apple can do no wrong
- **Neither perception is accurate or reflects reality**

# Price Controversy: PC vs. Mac

	PC	Mac
Desktop	\$500	\$1,519.63
Laptop	\$800	\$1,493.60

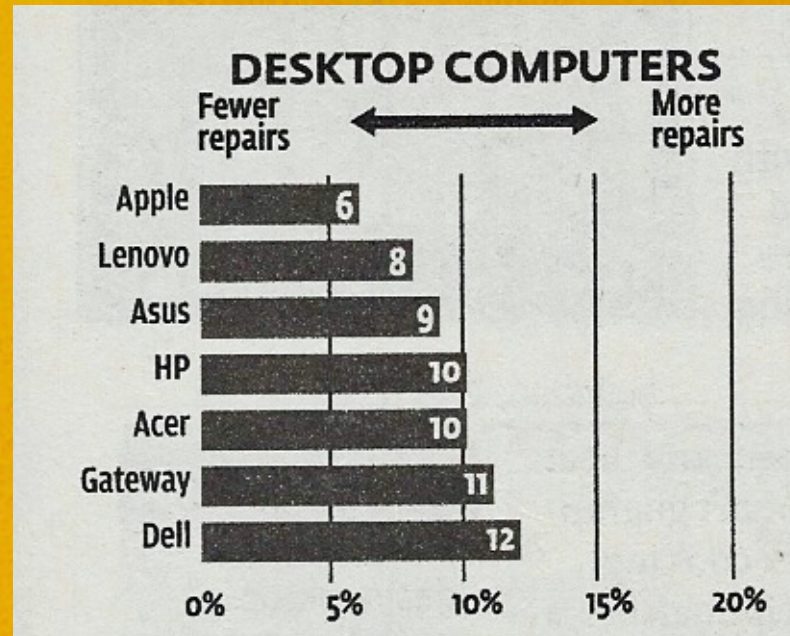
From *Bloomberg Businessweek*, "The Year Ahead 2015", p. 66

	\$1,100	
	\$1,100	
	\$1,100	
	\$1,100	
	\$1,100	
	\$1,100	
iMac 21.5-inch: \$1,099	\$1,100	← median
	\$1,100	
	\$1,100	
MacBook Air, 11-inch: \$899	\$1,100	
	\$1,100	
	\$1,100	
Mac Pro: \$3,000 → \$7,000 → \$18,000	\$1,100	
	<u>\$7,000</u>	
	\$1,592 average	

# Price Controversy: PC vs. Mac (cont.)

- “...there isn't much of a price difference between comparable Macs and PCs” ⓘ
- 27" iMac—\$2,826. 27" DIY PC—\$2,554. HP Z1—\$3,729 ⓘ
- “...Macs aren't ‘way more’ expensive than PCs” ⓘ
- “Macs are generally much more expensive than PCs...” ⓘ
- My View? Apple computers are 20-30% more expensive than comparable PCs

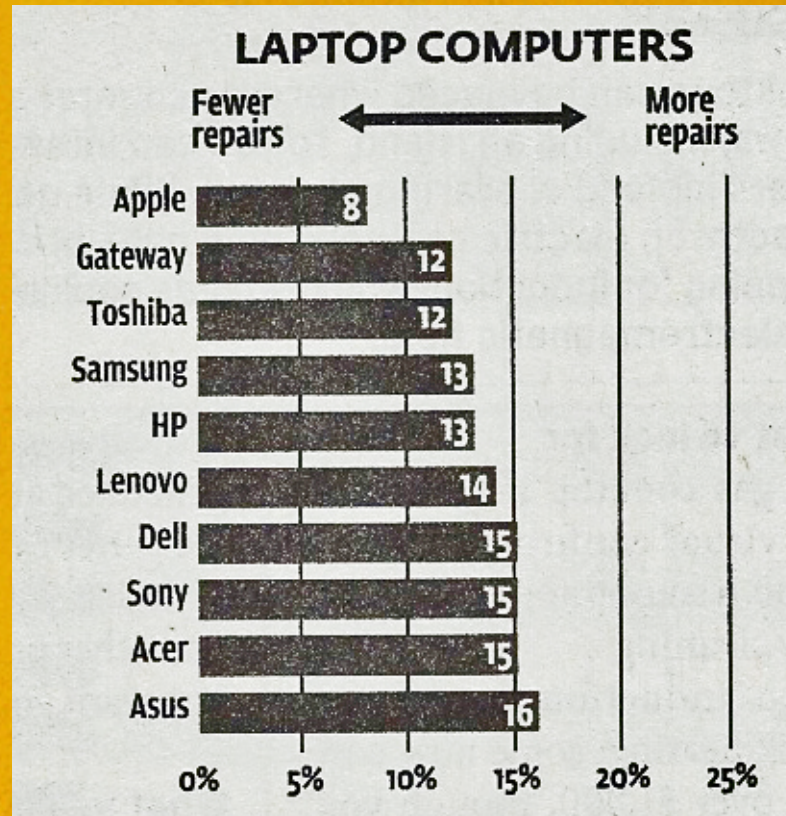
# Repairs: Desktop Computers



*ConsumerReports Buying Guide 2015, p. 33*

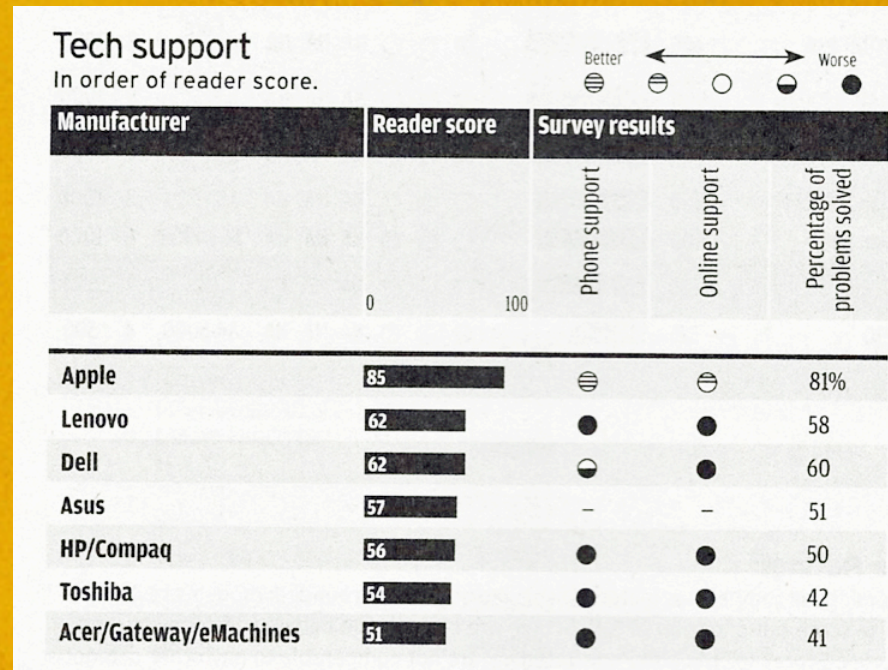


# Repairs: Laptop Computers







*ConsumerReports Buying Guide 2015, p. 33*

# Rankings of Tech Support







*ConsumerReports Buying Guide 2015, p. 26*  
See also *ConsumerReports, July 2015, p. 47*

# The Price of Apple Support



- New computers (no additional charge)
  - ✓ 90 days phone support
  - ✓ 1 year hardware – limited warranty
- AppleCare Protection Plan (extended warranty)
  - ✓ 1 year phone support
  - ✓ 3 year hardware – limited warranty
  - ✓ MacBooks (laptops) \$249 to \$349
  - ✓ iMacs \$169
- For Apple Support, see 
- For independent repair, see   



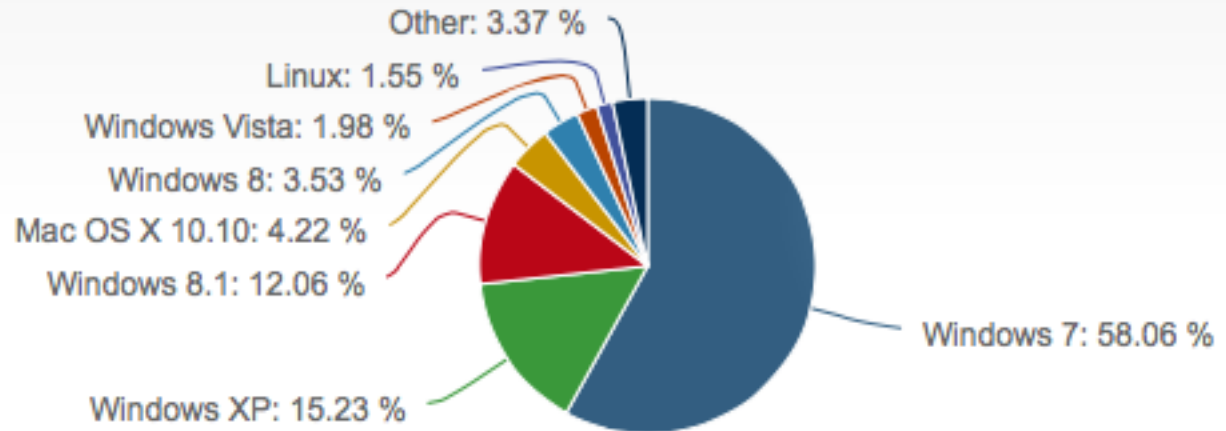
# Apple Users' Groups

- Virginia Macintosh Users Group (VMUG), Kenmore Middle School, Arlington, VA 
- Washington Apple Pi, Cedar Lane Church, Bethesda, MD and George Mason University 
- National Capital Apple Macintosh Users Group, Cleveland Park Library, Washington, DC 
- Apple User Groups, see 

# Windows 8

- Windows 8 available Oct 26, 2012
- Windows 8.1 available Oct 17, 2013
- Microsoft's goal: a single OS for computers, tablets, phones and Xbox  
- Considerable focus on touch screens
- Controversial
  - ✓ Often compared to Windows Vista
  - ✓ Not well accepted

# Acceptance of Windows 8



OPERATING SYSTEM	TOTAL MARKET SHARE
<input checked="" type="checkbox"/> Windows 7	58.06%
<input checked="" type="checkbox"/> Windows XP	15.23%
<input checked="" type="checkbox"/> Windows 8.1	12.06%
<input checked="" type="checkbox"/> Mac OS X 10.10	4.22%
<input checked="" type="checkbox"/> Windows 8	3.53%
<input checked="" type="checkbox"/> Windows Vista	1.98%
<input checked="" type="checkbox"/> Linux	1.55%

As of 2<sup>nd</sup> quarter, 2015 see

# Take Heart—Help Is On the Way!

- Coming July 29<sup>th</sup>   

Introducing  
Windows 10

The best one yet.

# Why Did We Switch to Mac?

- Windows 8.n – a catalyst
- Time to replace aging hardware
- Previous experience with Apple computers
- Difficulty synchronizing iPhones and iPads with Windows computers (i.e., Outlook)
- Apple's reputation for good technical support and durable hardware



**So... we made the leap!**  
**...sort of...**



# Macs Purchased



**OS X Yosemite\***

Version 10.10.1

**MacBook Pro (Retina, 13-inch, Early 2013)**

**Processor 2.6 GHz Intel Core i5**

**Memory 8 GB 1600 MHz DDR3**

**Startup Disk Macintosh HD (250 GB SSD)**

**Graphics Intel HD Graphics 4000 1024 MB**

**Serial Number C02KG0J5FFRR**

MacBook Pro, March 2013

\*OS updated from Mavericks to Yosemite October 2014

**Then we really did make the leap!**



# Mac's Purchased (cont.)



## OS X Yosemite

Version 10.10.1

iMac (21.5-inch, Late 2013)

Processor 3.1 GHz Intel Core i7

Memory 16 GB 1600 MHz DDR3

Startup Disk Macintosh HD (500 GB SSD)

Graphics NVIDIA GeForce GT 750M 1024 MB

Serial Number D25ND0YJF8J8

Two iMacs: October and November 2014

# Peripherals



**Three 2-TB Hard Drives**

# Peripherals



**Ankar 4-Port, USB-3.0 Hub**

# Peripherals



**Bose Companion 2 Series III Speakers**

# Peripherals

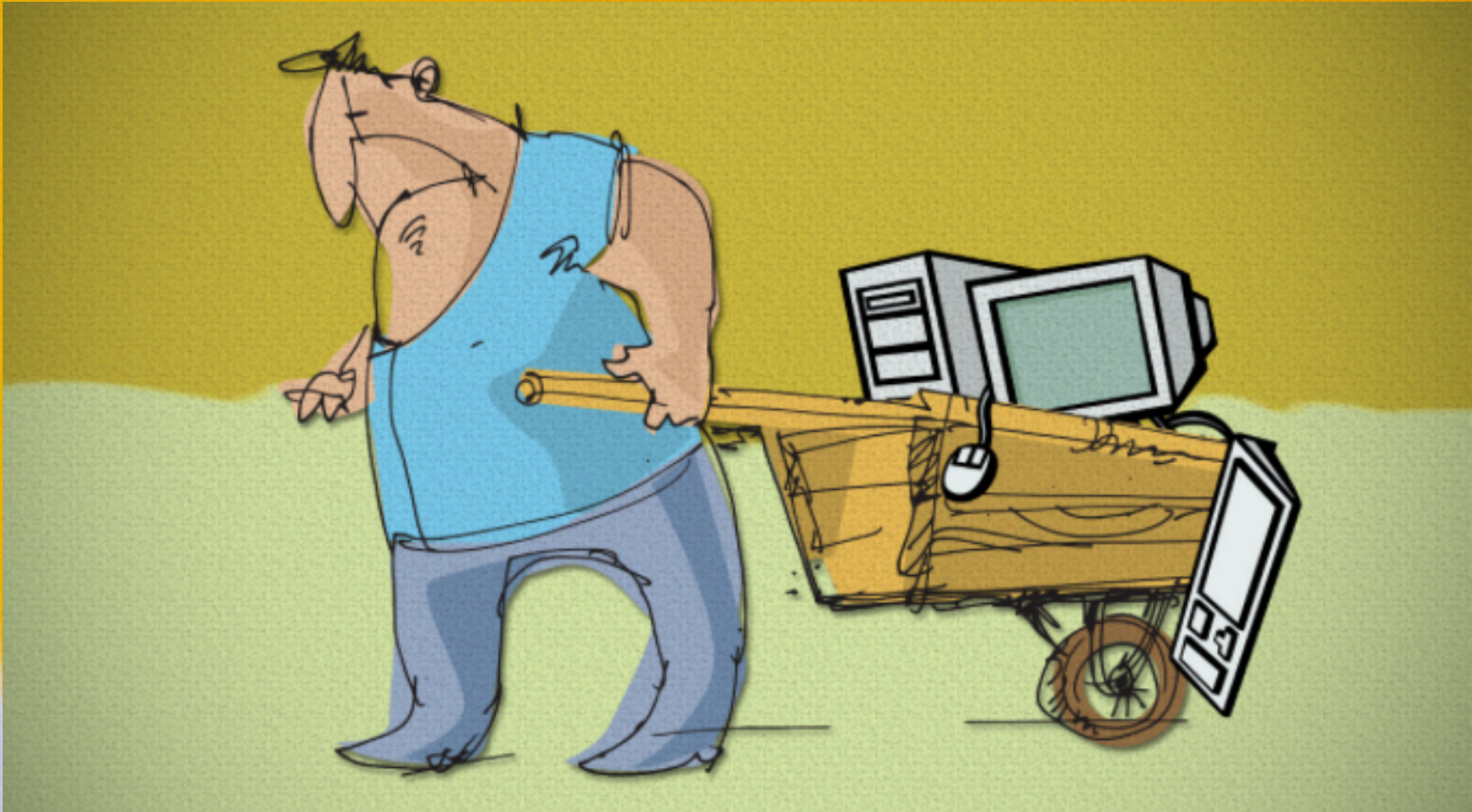


**HP Officejet Pro 8610 Wireless All-in-One**




# Moving Day Arrived!

...actually moving days



# Moving Files: PC → Mac

- **Transfer Documents:** very little effort
  - ✓ My Documents (PC) → Documents (Mac)
- **Transfer Music (iTunes):** little effort
  - ✓ [PC location] → Home\Music
- **Apple “One to One” (\$99):** 
  - ✓ Transfer photos, music, other files
  - ✓ Set up e-mail
  - ✓ Set up iCloud Drive for synchronization
  - ✓ Provide training courses
- **Apple Store “Geniuses”:** Some are brighter than others

# E-Mail: PC → Mac

- **Outlook Client (PC) to Mail Client (iMacs & MacBook Pro)**
  - ✓ Apple Mail user Interface: moderate effort
  - ✓ Transferring old/saved messages: moderate to **much** effort
    - Three Apple Geniuses said “no problem”
    - Lost attachments & some saved messages
    - 3,500+ “deleted” Gmail messages transferred
  - ✓ Recommend using IMAP not POP3/SMTP
  - ✓ Do not recommend attempting direct conversion of .PST files to Mac mbox format\*
- **In summary: A frustrating experience**

\* OS X Mail uses 12 different file formats

# Moving E-Mail: PC → Mac

- **Thunderbird:**
  - ✓ Mail user Interface: moderate effort
  - ✓ Old messages are transferred via mbox format
- **Web-based E-Mail\*:**
  - ✓ No change except browser differences
- Web-based e-mail does not interface with Calendar, Contacts, Reminders, etc.

# Most Popular E-Mail Clients


## 2014 TOP 10 EMAIL CLIENTS




#1	Apple iPhone	28%
#2	Gmail	16%
#3	Apple iPad	12%
#4	Outlook	9%
#5	Apple Mail	8%
#6	Android	7%
#7	Outlook.com	5%
#8	Yahoo! Mail	4%
#9	Windows Live Mail	2%
#10	AOL Mail	1%

From 









“53% of emails opened on mobile;  
Outlook opens decrease 33%”

January 15, 2015 









# Software: PC → Mac

- Executables *not* transferable PC → Mac
- Many companies sell software for both PCs and Macs, notably Microsoft and Adobe
- There is a lot of software for both iOS and OS X (including apps)
- Apple computers (OS X) and iOS devices (iPads, iPhones, etc.) integrate very well
- Very few home Mac users use anti-malware software (another controversy) 

# Free Anti-Virus Software


Product	Source
Avast!	
AVG	
Avira	
ClamXav 2	
Comodo	
iAntivirus	
Panda	
Sophos	

# For Fee Anti-Virus Software

<b>Product</b>	<b>Price</b>	<b>Source</b>
Bitdefender	\$59.95	
ESET	\$39.99	
Intego	\$39.99	
Kaspersky	\$39.95	
McAfee	\$49.99	
Norton	\$39.99	
Panda	\$49.99	
Trend Micro	\$39.95	






# Mac Office Productivity Software

- iWork (no extra charge)
  - ✓ Pages (word processing)
  - ✓ Numbers (spread sheet)
  - ✓ Keynote (presentation software)
- Microsoft Office 2011 (\$\$\$)
  - ✓ Word (word processing)
  - ✓ Excel (spread sheet)
  - ✓ PowerPoint (presentation software)
  - ✓ Outlook (e-mail, calendar, contacts, etc.)
  - ✓ ~~Access~~ (DBMS)
  - ✓ Other components...
- FileMaker Pro (\$329-\$549) (DBMS) 








# Mac Office Productivity Software (cont.)

- OpenOffice & LibreOffice (free)  
  - Word-processing software
  - Spreadsheet software
  - Presentation software
  - Database functions
  - Graphics processing
  - Others...
- For comparison of numerous office productivity suites see 

# Disaster Planning

- Backup – “Time Machine”:
  - ✓ Hourly backups for past 24 hours
  - ✓ Daily backups for past month
  - ✓ Weekly backups for all previous months
- Boot-up from the Internet (OS X Recovery):
  - ✓ Power on with CMD+R (really works!)
- Other backup software
  - ✓ Carbon Copy Cloner 
  - ✓ ChronoSync 
  - ✓ Retrospect 

# Safe Storage (encryption)

- Encrypted partition (using “Disk Utility”) 
- FileVault (whole disk encryption) 
- TrueCrypt  For results of an audit, see 
- VeraCrypt 
- 7-Zip 
- Hider 2 (\$19.99) 

**So... you ask**

**How did  
the switch  
to Mac go?**

expectations.



# What could possibly go wrong?



**First day...**

**Why doesn't  
this work?**

**What happened?**

**I can't find anything**

**%\$#@#**





**First day...**

**Lorrin...**

**HELP!**



**I Hate  
Computers**

**Whimper**

**Groan**

**Moan**



**Snivel**

**Whine**

**Grumble**

**After a week?  
...not so bad**



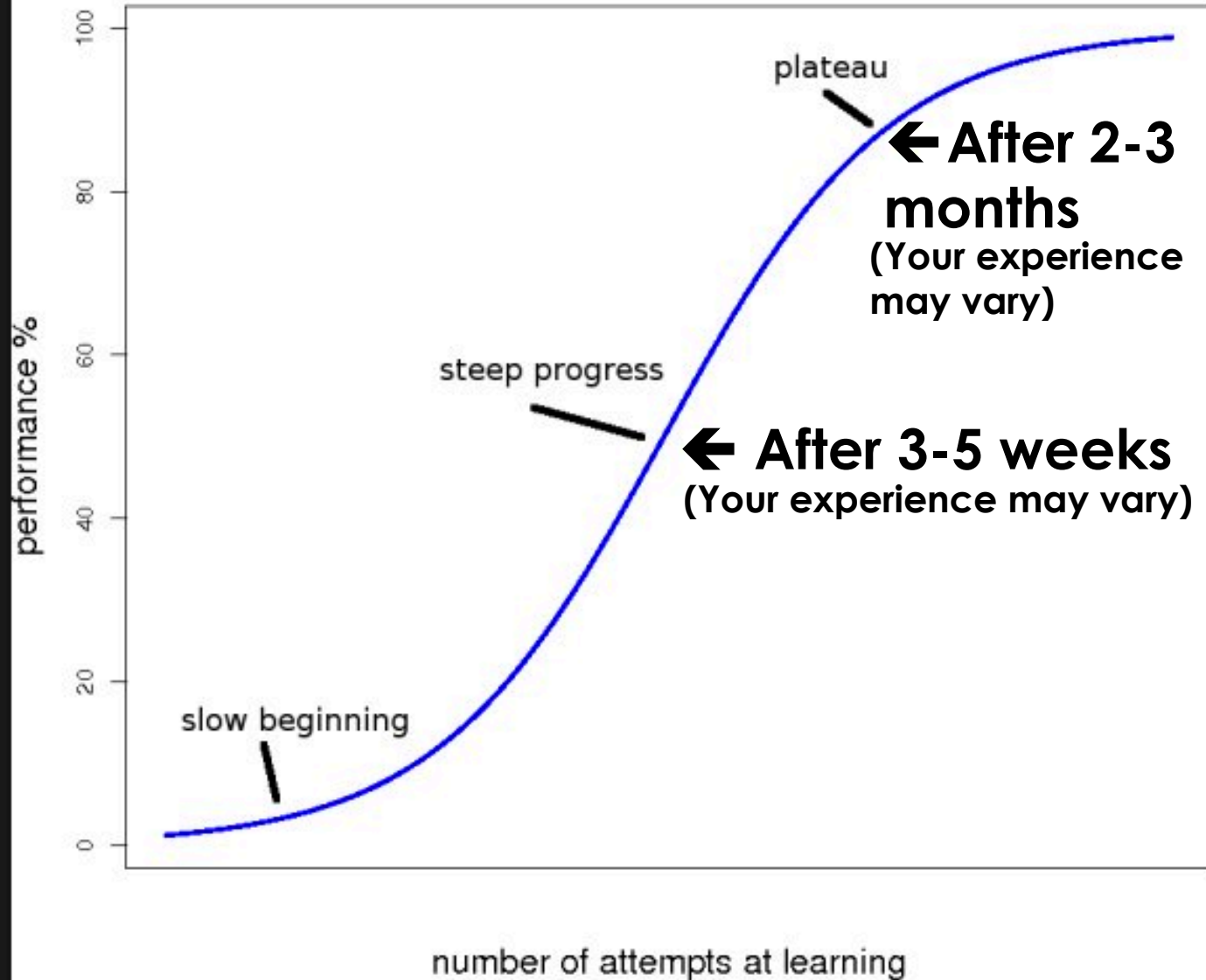
**After two weeks?  
...pretty good!**



**After a month?**

**...all is well – almost**





# In Summary...

- Data transfer: Easy except for old e-mail messages
- Mac user Interface: Moderate effort to learn
  - ✓ The “Dock” at bottom of the screen
  - ✓ The “Menu” at top of the screen
- Microsoft Office 2011 acts somewhat differently; it’s been “Apple-fied”
- Mouse & trackpad different
  - Switch from PC mouse to Mac mouse is easy
  - Mac mouse & trackpad – much greater functionality

## In Summary (cont.)

- Backup & Recovery: easy to set up and use
- Networking: Easy except file sharing on LAN
- Synchronization with iPhone & iPad: Easy and much improved
- Monthly maintenance: Much less effort (80-90% time savings)
- Much less heat and noise



# Moving from PC to Mac... Good or Bad Decision?




- For us? A good decision
- Your experience could differ

# Things To Like About Apple Computers

- User interface (UI)
  - ✓ Reasonably intuitive
  - ✓ Consistent menu among applications
  - ✓ Mouse/trackpad/keyboard-centric (no touch screens)
- Stability – “it just works”
- Very fast boot-up (20 + 5 seconds)
- Backup and recovery
- System search (Spotlight)

# Things To Like (cont.)

- Cool and quiet
- No bloatware (aka crapware) 
- Notification Center (alerts from applications)
- Included programs
  - ✓ “iWork”
  - ✓ Mail
  - ✓ Calendar
  - ✓ Contacts
  - ✓ Reminders
  - ✓ System Preferences
  - ✓ Dictionary/Thesaurus
  - ✓ iTunes

# Things Not So Likable

- Mac computers are not upgradable—except for the 27" iMac and Mac Pros
- Price of hardware and support
- Only exceptionally skilled users can repair Mac computers
- Mail – enough said
- Microsoft Office 2011— idiosyncratic behavior
- Mouse and trackpad quit unexpectedly
- Keyboard a bit small

# Remaining Issues


- Resolve e-mail issues
  - ✓ Problems reported between Apple Mail and Gmail
- File sharing between computers on LAN
- Implement Keychain\* for Ann and on the family MacBook Pro
- Implement iCloud Drive (iCloud → iCloud Drive)

\* Keychain is a password management tool

# Remaining Issues?

**There is a fuzzy point when remaining issues are really new issues...**

- Look into more rigorous iCloud data backup
- Work out how to use “Finder Tags” effectively
- AirDrop is quirky
- Look into iWork as a replacement for Microsoft Office<sup>1</sup>... maybe OpenOffice or LibreOffice?
- Learn Apple's Swift/Xcode<sup>2</sup>

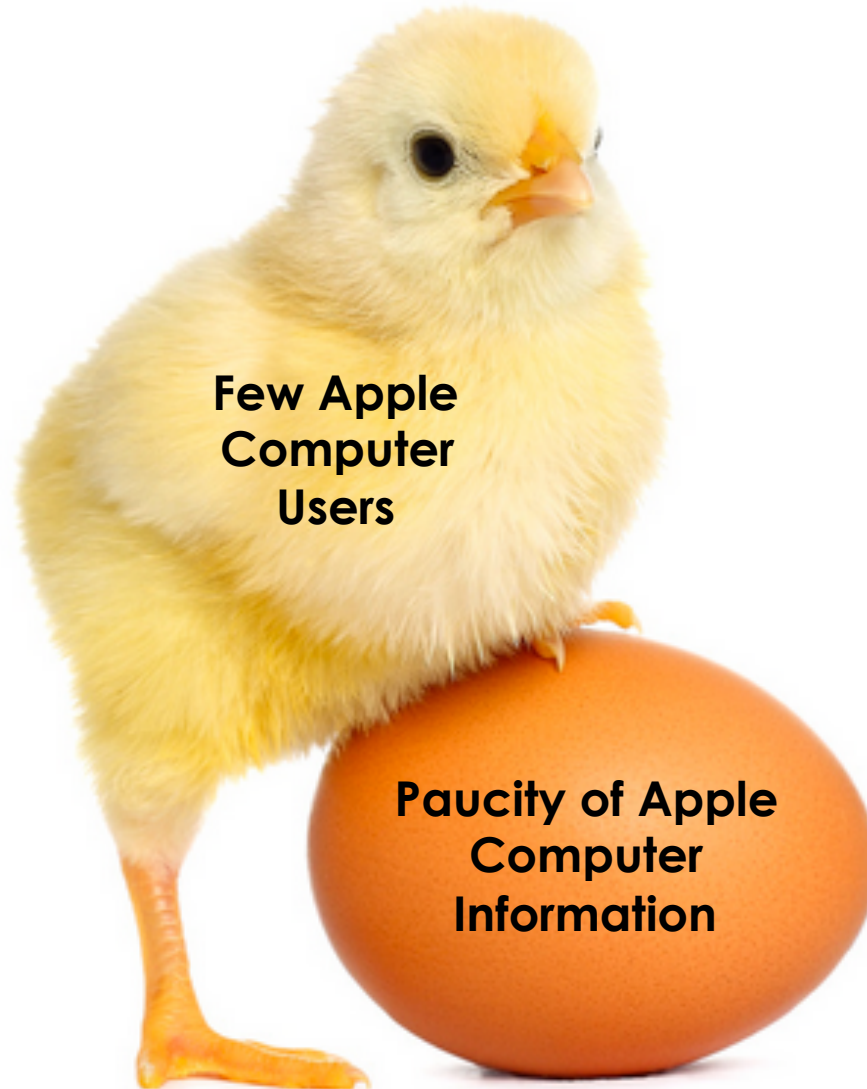
<sup>1</sup>Microsoft Office 2016 expected in 2015 

<sup>2</sup>Xcode is an **I**ntegrated **D**evelopment **E**nvironment (IDE) suite of software for development for OS X and iOS

# What I Will Miss About Windows

- Interaction with our son and son-in-law – both Windows guys
- Less participation in PC user groups
- Loss of PC knowledge
- Abandoning “old friend” magazines & Web sites

# Within OPCUG and PATAACS



**Few Apple  
Computer  
Users**

**Paucity of Apple  
Computer  
Information**



# An Appeal...

- Greater Apple computer activity:
  - ✓ A plea for presentations on Apple computer topics
  - ✓ Inclusion of Apple computer topics in *PATACS Posts Newsletter* (okay with Geof Goodrum)
  - ✓ Make it known that Apple computer users are welcome

**Thanks for listening!**



# Questions? Comments?

