



Ford's Colony Computer & Technology Club

*“Thinking of or Needing to
Replace Your PC?”*

June 21, 2021

ANNOUNCEMENTS

- Next Meeting – September 20th – Topic TBD
 - Hopefully we will be able to meet in person @ Swim & Tennis
- Tonight's Meeting – *“Thinking of or Needing to Replace Your PC?”* – Tom Lamb, Howard Maltz & Rick Chase

WHY AND WHERE



What uses do you have?

- Email
- Browse
- Programs
- Graphic design
- Gaming

Where do you use it?

- Home only (at fixed or various location)
- Travel and home

COMPUTERS (LAPTOP/DESKTOP)

Topic	
Cost	Prices for a computer (desktop or laptop) can vary widely, depending on its capabilities, storage, and other features Prices can range from \$300 to thousands of \$
Processors	From very low power to high powered graphics/gaming
Screen size	Laptops up to 17". Desktops up to TV size
Storage	Computer hard drives can be over one TB (terabyte). Even the most basic computer comes with a 250 GB (gigabyte) hard drive.
Portability	Desktop computers are not portable. Laptop computers are portable, lightweight, however, laptops with larger screens (17") are bulky and more difficult to carry around, weighing several pounds.
Battery life	The battery life even for the most efficient laptop is still not close to the battery life of a tablet.

COMPUTERS (LAPTOP/DESKTOP)

Topic	
Boot Time	Slower than a tablet or Chromebook
User Input	Desktops and laptops have dedicated keyboards and have relatively larger keys
Touch Screen	Desktops can be equipped with touch screens. 2 in 1 laptops have touch screen feature.
Upgrades	Desktops and most laptops have some form of hardware upgrades like adding more memory and disk storage
Software	Most application software is designed for the computer. Programs on the computer are often more feature rich than apps designed for tablets.
Operating System	Windows or Mac OS

GENERAL CONSIDERATIONS

- Changing from computer to another device or from one OS to another will require some learning time
- Portability for many is a key consideration
- If use is basic (email, browse, and basic programs) then tablet or Chromebook could be a good choice
- As we age, size of screen becomes more important



LAPTOP PURCHASE RECOMMENDATIONS



- Specs
 - i7 or higher Intel CPU
 - 16 Gb RAM (min)
 - 500 Gb SSD
- Consider purchasing refurbished PCs
 - Significant savings
 - Like new warranty



Chromebook



Chromebox

Google's
"Web-based"

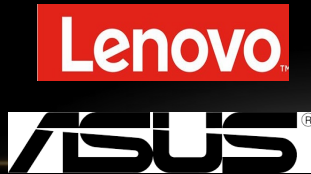


CHROMEBOOK

Chromebook runs Google's **Web based** Chrome OS

- Most the processing power and file storage is in the Google Cloud Environment.
- Apps are also Cloud based (not on your Chromebook)
- Most work done when you online, some work can be done offline.
- Very Good for basic (online) users and requires less computer maintenance.
- Less Expensive price range \$200 - \$1,000+ (good configuration: \$250 - \$550)

Note: Google will provide OS updates for 6-8 years then Chromebook will need to be replaced.



CAN A CHROMEBOOK OR CHROMEBOX REPLACE YOUR LAPTOP OR DESKTOP COMPUTER?

It Can If....

- Main Uses are:
 - Exploring the web
 - Email
 - Social Media
 - Playing “basic level” Games
 - eCommerce
 - Word processing
 - Productivity Applications
 - Google’s G Suite (free)
 - *Limited Support* for Microsoft Office (Word, Excel, PowerPoint)

May Not If....

- **If you mainly work offline**
 - Need to rely on Windows or Mac application software (MS Office)
 - Intermediate or Advance Level photo and/or video editing
 - Playing “Pro Level” Games
 - School or Employer: hardware requirements
 - Do not want to rely on Cloud Storage
 - Some Printers/Scanners (or other peripherals) may not compatible
 - Do not want to establish a Google Account

CHROMEBOOK SECURITY

Chromebooks use multiple layers of protection

- **Automatic Updates** - The most effective way to protect against malware is to ensure that all software is up to date and has the latest security fixes.
- **Sandboxing** - each web page and application runs in a restricted environment called a "sandbox". If the Chromebook is directed to an infected page, it can't affect the other tabs or apps on the computer or anything else on the machine. The threat is contained.
- **Verified Boot** - Every time the Chromebook starts up, it does a self-check called "Verified Boot". If it detects that the system has been tampered with or is corrupted in any way, typically it will repair itself without any effort, back to a clean operating system
- **Data Encryption** - all important data is stored safely in the Cloud. Certain kinds of files, like downloads, cookies and browser cache files, may still be present on the computer. The Chromebook encrypts this data using tamper-resistant hardware, making it very difficult for anyone to access those files.
- **Recovery Mode** - If anything goes wrong with a Chromebook, you can simply push a button or use a quick keyboard combination to enter Recovery mode and restore the operating system to a known good version.

CHROMEBOOK / CHROMEBOX

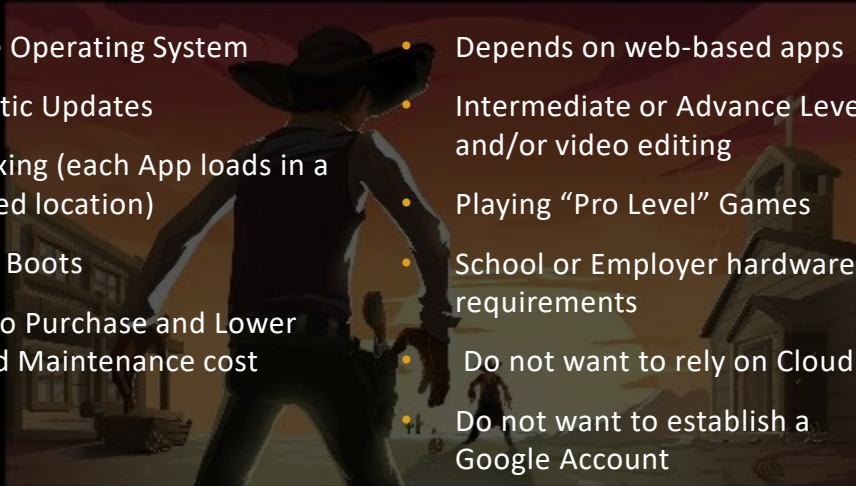
PROS & CONS

PRO

- More Secure Operating System
 - Automatic Updates
 - Sandboxing (each App loads in a separated location)
 - Verified Boots
- Lower Cost to Purchase and Lower Software and Maintenance cost
- Speed
- Price



CON

- Depends on web-based apps
- Intermediate or Advance Level photo and/or video editing
- Playing “Pro Level” Games
- School or Employer hardware requirements
- Do not want to rely on Cloud Storage
- Do not want to establish a Google Account



GOOGLE CLOUD STORAGE COST:

(CHROMEBOOK PURCHASE: COMES WITH 12 MONTHS 100 GB STORAGE AT NO CHARGE)

15 GB	Recommended 100 GB	200 GB	2 TB
Free			
Current plan	\$1.99 / month	\$2.99 / month	\$9.99 / month
	Or prepay annually (save 16%): \$19.99 / year	Or prepay annually (save 16%): \$29.99 / year	Or prepay annually (save 17%): \$99.99 / year
		 Get 3% back in Store credit on Google Store purchases	 Get 10% back in Store credit on Google Store purchases
Includes	Google One includes	Google One includes	Google One includes
<ul style="list-style-type: none">✓ 15 GB storage	<ul style="list-style-type: none">✓ 100 GB storage✓ Access to Google experts✓ Option to add your family✓ Extra member benefits	<ul style="list-style-type: none">✓ 200 GB storage✓ Access to Google experts✓ Option to add your family✓ Extra member benefits✓ 3% back in the Google Store	<ul style="list-style-type: none">✓ 2 TB storage✓ Access to Google experts✓ Option to add your family✓ Extra member benefits✓ 10% back in the Google Store✓ VPN for Android phone

CAN AN IPAD PRO REPLACE YOUR LAPTOP OR DESKTOP COMPUTER?

It Can If....

- Main Uses are:
 - Exploring the web
 - Email
 - Social Media
 - Playing Games
 - eCommerce
 - Word processing
 - Productivity Applications
 - Supports Microsoft 365 (Word, Excel, PowerPoint, OneNote, One Drive, Outlook)
 - Apple's iWork Suite (free)

And an iPad can do some tasks even better than a Laptop

- Synchronize Applications across all Apple devices using iCloud
 - Contacts (address book)
 - Calendar
 - Photos
 - Reminders, etc.
- Two multipurpose cameras (back and front)
- iMovie
- Music
- WiFi & optional Broadband connectivity

CAN AN IPAD PRO REPLACE MY LAPTOP OR DESKTOP COMPUTER?

It Can't If....

- You're tied to an application or program that only runs on Windows PC; However, more applications are moving to the Cloud vs. the program running on the device
- You need large amounts of on-device storage; again, use of iCloud, One Drive, Google Drive, DropBox dramatically minimizes this issue; also, there are 3rd party external drives that can connect to an iPad to provide additional storage.

My Recommendations

- **iPad Pro 12.9"** or 9.7"
- External **Bluetooth (BT) backlit keyboard**; preferably one that doubles as a tablet stand and traveling case).
- Pointing Device
 - A **Bluetooth mouse** or a trackpad
 - iPadOS only will support one at a time
 - Apple Pencil (particularly if you are doing a lot of graphical work)
- A **Hub** to provide extended connectivity to external drives, monitors via HDMI, USB ports, wired ethernet, etc.

MY IPAD PRO 12.9" SETUP



- iPad Pro 12.9" 3rd Generation (2018)
 - <https://www.apple.com/shop/refurbished>
- Logitech Slim Folio BT Keyboard/Travel Case
 - [Link to Amazon - Keyboard/Case](#)
- Logitech M557 BT Mouse
 - [Link to Amazon - M557 BT Mouse](#)
- Tiergrade USB Type C Hub
 - [Link to Amazon - USB Type C Hub](#)
- Apple Pencil
 - <https://www.apple.com/shop/refurbished>



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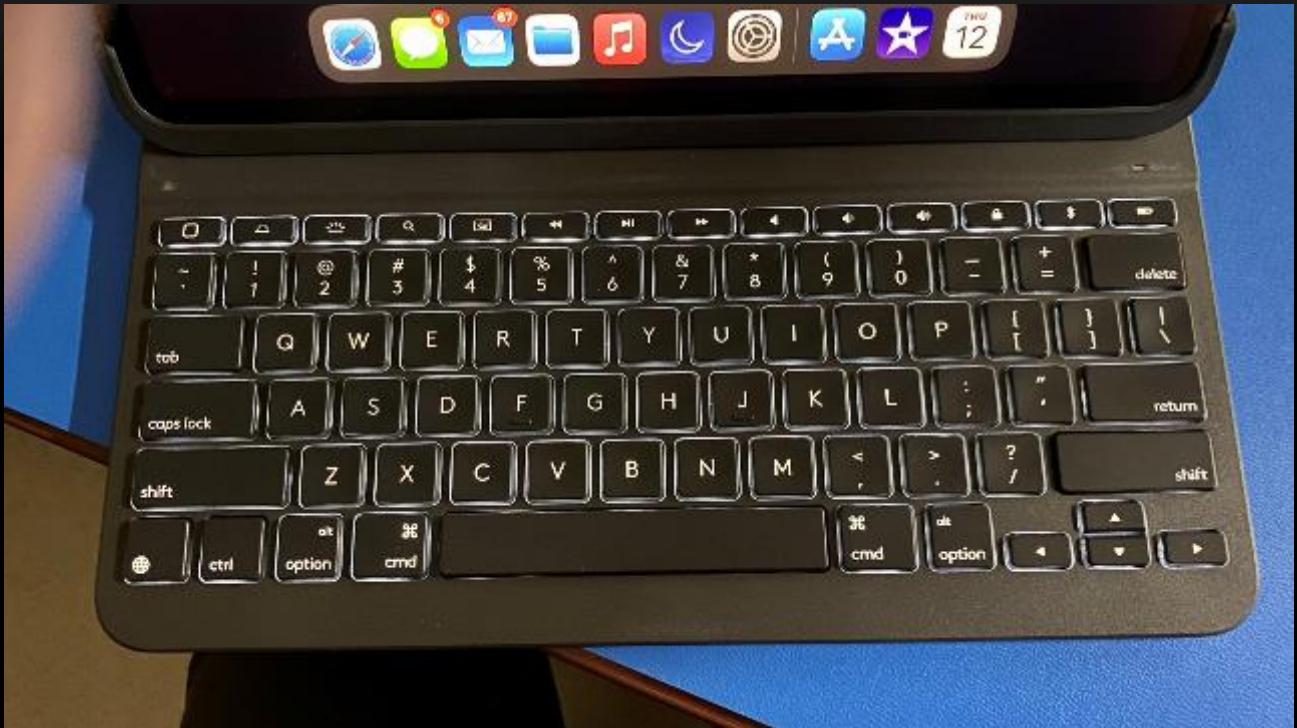
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MY IPAD PRO 12.9" SETUP – TRAVEL CASE MODE



MY IPAD PRO 12.9" SETUP – BACKLIT KEYBOARD



MY IPAD PRO 12.9" SETUP – USB-C HUB



MY IPAD PRO 12.9" SETUP – USB-C HUB



MY IPAD PRO 12.9" SETUP – USB-C HUB



HOW TO SETUP A BT MOUSE FOR YOUR IPAD



<https://osxdaily.com/2021/01/21/how-use-mouse-trackpad-ipad/>

MY IPAD PRO 12.9" SETUP – APPLE PENCIL

Compare Apple Pencil products



Apple Pencil (2nd generation)



Apple Pencil (1st Generation)

Price	From: \$124.98	From: \$94.88
Ratings	★★★★★ (12,660)	★★★★☆ (35,087)
Bluetooth	✓	✓
Lightning Connector		✓
Other Features	Magnetically attaches and pairs	Magnetically attached cap
Compatible with	iPad Pro 12.9-inch (3rd and 4th generation); iPad Pro 11-inch (1st and 2nd generation)	iPad (6th and 7th Generation), iPad Mini (5th Generation), iPad Air (3rd Generation), iPad Pro 12.9-inch (1st and 2nd Generation), iPad Pro 9.7 and 10.5-inch

PANEL DISCUSSION

- Tom Lamb
- Howard Maltz
- Rick Chase





Ford's Colony Computer & Technology Club

*“Have a Great Summer...
See You in September”*