



**The Cloud is Here
Don't Get Left
Behind**

**Lorain County Computer Users Group
March 9, 2021**

Brought to you by....

APCUG's Speakers Bureau, a benefit of your group's membership in APCUG

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What is the Cloud?



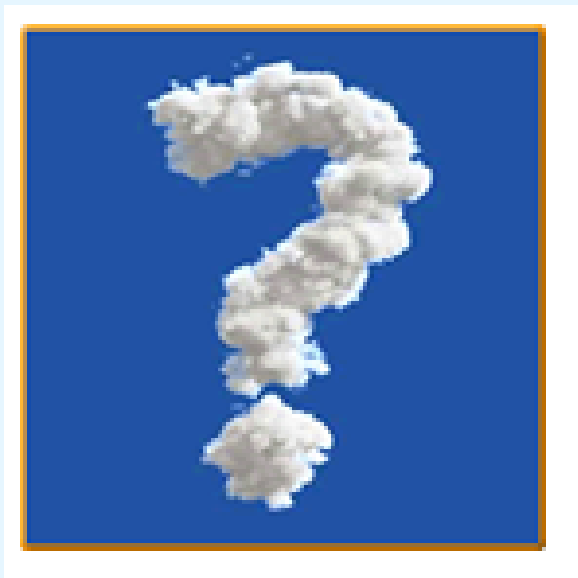
Cloud Confusion

Have you heard people using terms like the cloud, cloud computing, or cloud storage.

And you're clueless or really don't understand about the cloud.

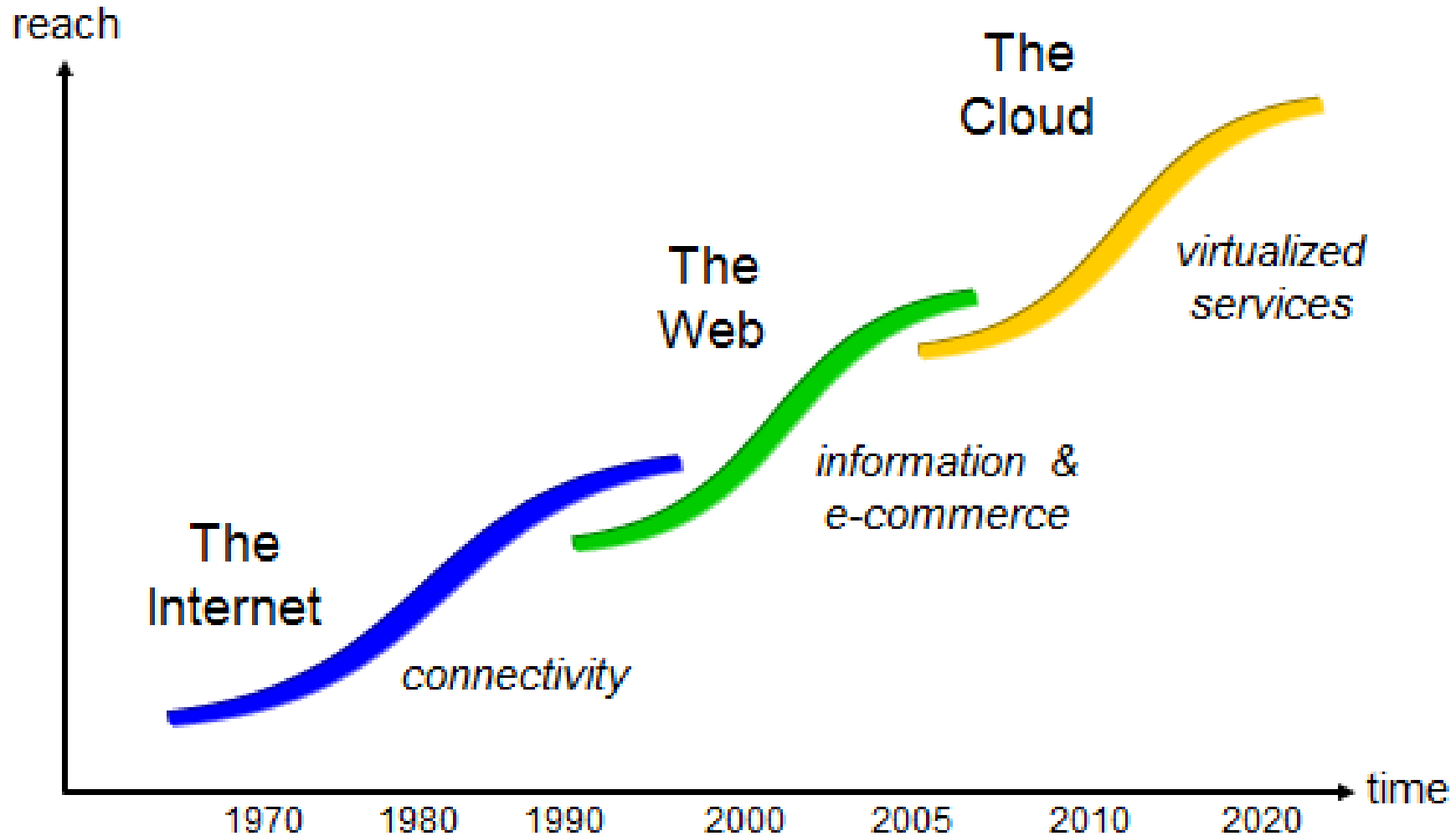
Cloud Confusion

One in five Americans (22 percent) admit that they've **pretended to know what the cloud is** or how it works.



When asked what “the cloud” is, a majority responded it’s either an actual cloud (specifically a “**fluffy white thing**”), the sky or something related to the weather (29 percent).
51% said stormy weather would interfere with their cloud computing

The Third Generation



2018 *This Is What Happens In An Internet Minute*



2019 *This Is What Happens In An Internet Minute*



Every 10 Seconds the Tech Giants Make This Much (2016)



By the way, in the 10 seconds you've been on this page, these internet giants have profited \$23630, and around 50% of that went to Apple.

What Happens on the Internet Daily?

- Google – searches per day – 5.5 billion
- Facebook – 10 billion posts shared each day
- Twitter – 500 million Tweets each day
- Amazon – how many items sold per minute – 4,000
- Netflix – 167 million subscribers
- YouTube – Daily - 300 hours of video are uploaded
500 billion videos watched every day
- Zoom – Daily users – 300 million

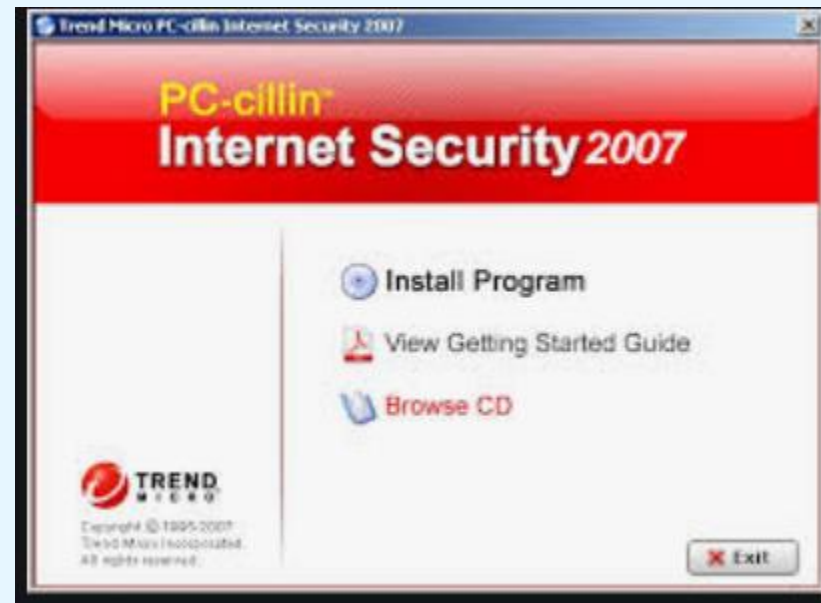
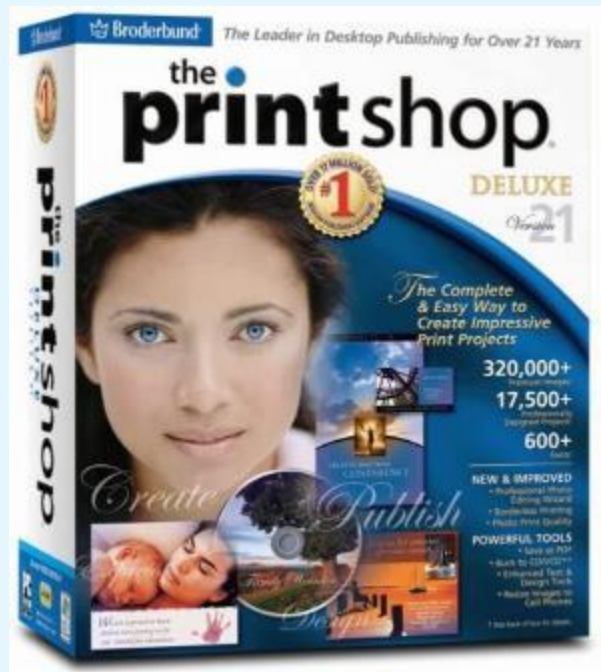
Back-in-the-Day

Your Computer

- Hard drive (C: drive)
- Purchase programs
- Install on HD
- Create docs
- Edited photos
- Used web to search / send e-mails.....



Programs/Apps on Your HD



Tied to Your Computer

- Programs / Data / Photos...
- Couldn't access from another device or computer



Did You Start Becoming Mobile?

- Save content to storage devices
- Take device to compatible computer
- Open and use content



Who, What, Where is the Cloud

What is the Cloud?

- What is the cloud?
- Where is the cloud?
- Are we in the cloud now?
- These are all questions you've probably heard or even asked yourself
- It is storing and accessing data and programs over the Internet instead of your computer's hard drive

What is the Cloud?

- The "cloud" is just a symbol for the internet.
- The term "cloud computing" has been around since 1977 when a cloud was used to represent a connection to the Internet outside computers
- You know it's there, you just can't see inside it much like a real cloud in the sky.



Why Use the Cloud

- It's convenient
- It's reliable
- We can access our data from any device with an Internet connection
- Can share photos, documents, etc.
- Effective backup solution



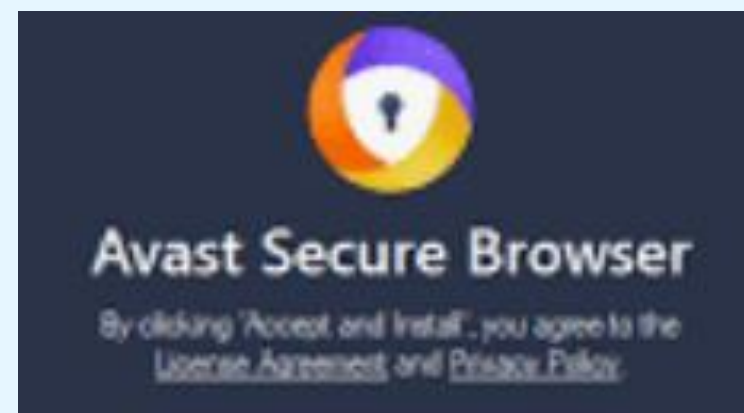
Cloud Computing

Having secure access to all your applications and data from any network device

Do you use Web-Based Apps?

- Apps (programs / software) stored on remote server
- Available over the Internet





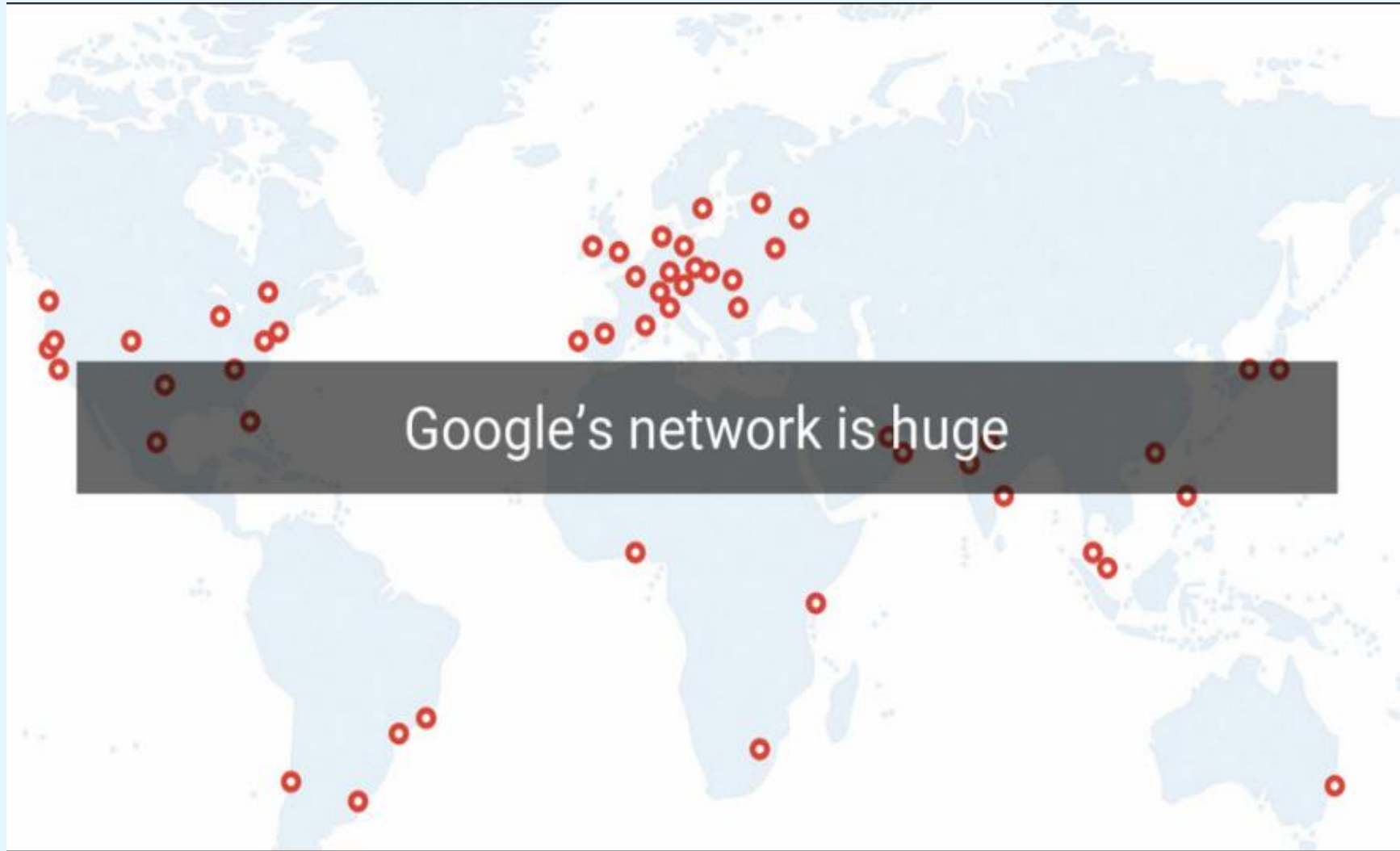
Where Does Everything Live?

- On a network of servers
- Use Wi-Fi to access
- At friends / neighbors / on vacation / city parks / libraries
- Starbucks
- McDonalds
- Nothing to forget (USB drive, etc.)
- External HD stays at home

What is a Server aka Data Center?

- At its most basic level, “the cloud” is just fancy talk for a network of connected servers.
- A server is simply a computer that provides data or services to our devices (computers, tablets, phones, etc.) over the Internet.
- Server farms provide massive storage and processing power

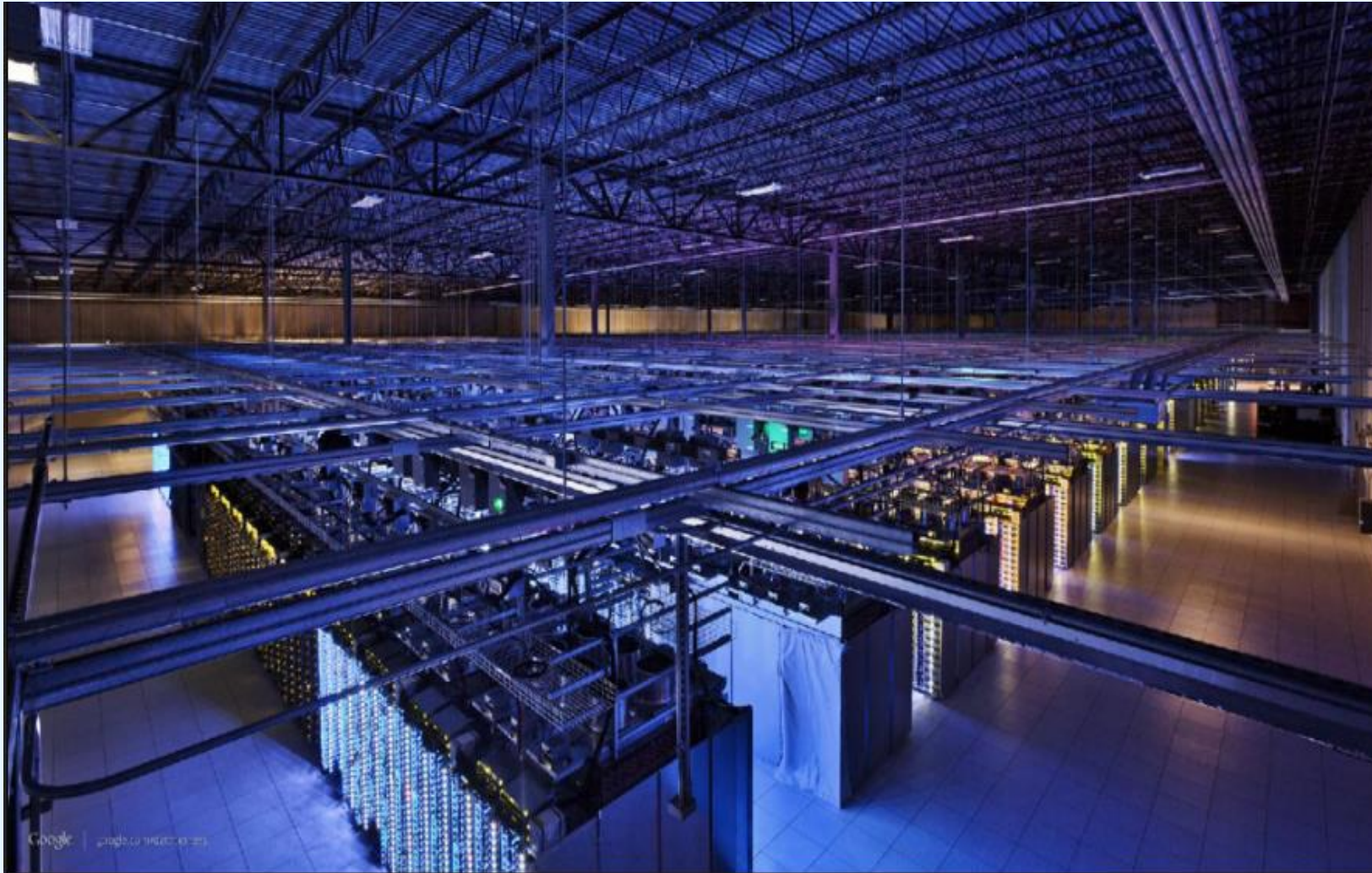
Google Data Centers



Google Data Center



Google Data Center



Google's Shipping Container Data Center



NASA Nebula Cloud Servers

- Nebula is an open-source cloud computing platform that was developed to provide an improved alternative to building additional expensive data centers and to provide an easier way for NASA scientists and researchers to share data with external partners and the public.



Pros and Cons

Pros

- Data is encrypted
- You won't use all the space on your hard drive.
- If your device crashes, you will still have access to your files.
- It will take you a long time to use up all the space offered by most cloud providers.
- Ease of access – any time
 - Any device
 - Any place in the world

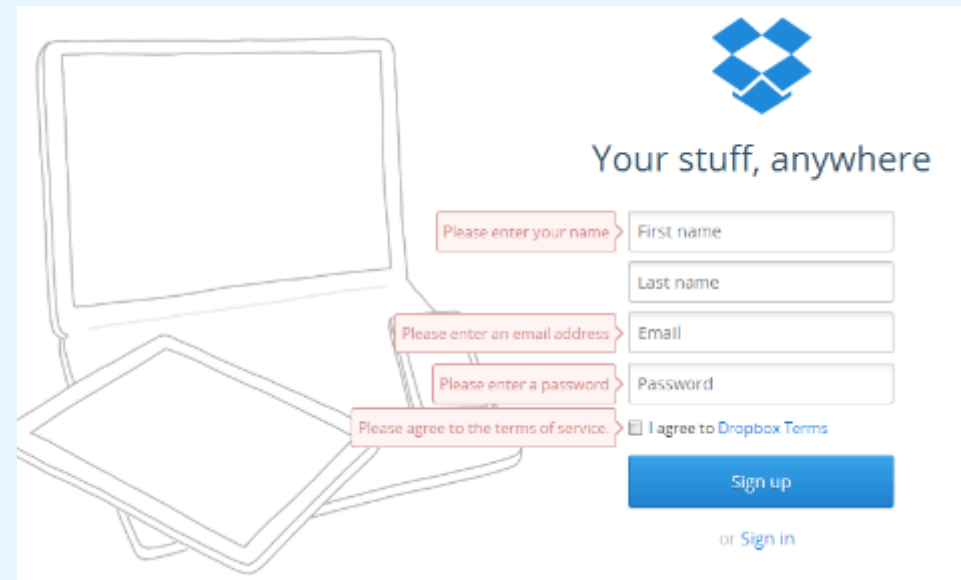
Cons

- Fast, reliable Internet connection
- Slow upload speed
- Is it really private and secure?

**What do we need to access
the Cloud?
Is it safe?**

What Do We Need to Access the Cloud?

- Internet connection
- Account
- Username & password / passphrase
- Agree to terms



The image shows a screenshot of the Dropbox sign-up page. On the left, there are faint outlines of a laptop and a tablet. On the right, the Dropbox logo is at the top, followed by the tagline "Your stuff, anywhere". Below this is a sign-up form with four input fields: "First name", "Last name", "Email", and "Password". Each field has a red callout box pointing to it with the text "Please enter your name", "Please enter an email address", and "Please enter a password" respectively. Below the "Password" field is a checkbox labeled "I agree to Dropbox Terms" with a red callout box saying "Please agree to the terms of service.". At the bottom of the form is a blue "Sign up" button and a link for "or Sign in".

What Do We Need to Access the Cloud?

- Internet connection
- Account
- Username & password / passphrase
- Agree to terms

What do we need to access the Cloud

- How old is your router?
- Where is it located?
- Try a Wi-Fi extender
- Research a mesh network
- Ethernet cable?
- Change out your ISP-provided equipment

Is the Cloud safe?

- Servers are usually located in warehouses that most workers don't have access to.
- Files stored on cloud servers are encrypted (scrambled), which makes it harder for cybercriminals to access.

What type of security do you need?

- Security app
- Firewall
- Router
- Strong Password /
Passphrase

Companion Program

- Malwarebytes

Password

- Strong password
 - Minimum 10+ characters
 - At least 1 capital letter, number, symbol
 - NhrbCj#M2mg8!
- Use a Passphrase = more secure
 - Sentence or series of words
 - PPCCompAS Meets 1st Saturday

Password Programs

- Stores your login information for websites you use
- Log in automatically
- Encrypted password database
- One master password to remember
- Can generate random passwords



LastPass...

 bitwarden

Two-Factor Authorization (2FA)

- Two-step security authorization process
- In addition to password / passphrase
 - Password & pin #
 - Fingerprint
 - Facial recognition (built-in camera)
 - Text message
 - Phone call

**What can we do in the
Cloud?**

Apps

Office Suites

Social Networking

E-mail

Evernote

Chat

Zoom

Back up

What can we share?

Documents

Spreadsheets

Presentations

Photos

Videos

Newsletters

Calendars

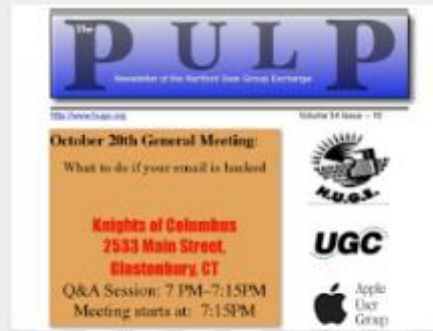
Much more....

APCUG's Newsletter Contest

- Online file sharing



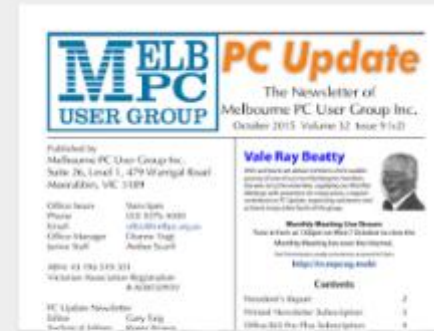
PDF The Computer Link N...



PDF PULP October 2015...

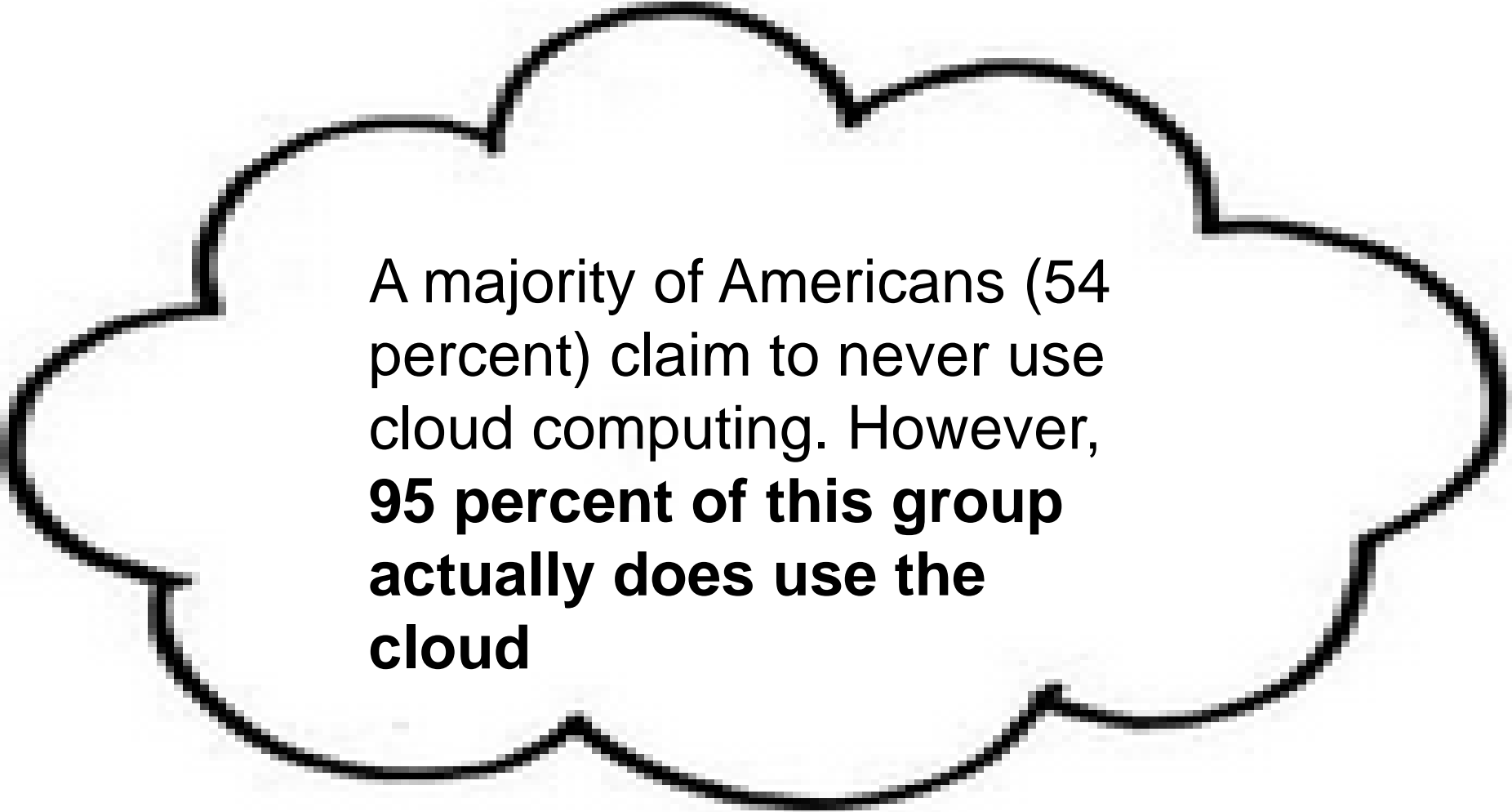


PDF PCUpdate November...



PDF PC Update October 2...

We already use the Cloud!



A majority of Americans (54 percent) claim to never use cloud computing. However, **95 percent of this group actually does use the cloud**

We already use the cloud!

- Online banking



- Online shopping




- Social networking (Facebook, Twitter, etc.)



We already use the cloud!

- Sharing photos online

Your photos have been uploaded!








album 11/10/2012
11/10/12
[View album](#)
[Upload more](#)

Your photos are ready to view.

Share with your contacts, groups, and social networks.

Separate each address with a comma [Add from address book](#)

Message (optional)

39/420 Share

We already use the cloud!

- Online Games



The screenshot shows the Pogo.com website interface. At the top, it displays "43,228 Players Online" and navigation links for "EA", "Help", "US / CA", and "UK". The main header features the "pogo.com" logo and the text "Play Over 100 Free Online Games!". A search bar labeled "Find A Game" is present. Below the header is a navigation menu with links for "Home", "Games", "My Friends", "Prizes", "Pogo News", and "More". A secondary menu offers categories: "All Games", "Puzzle Games", "Board Games", "Card Games", "Word Games", "Casino Games", and "Arcade Games". The main content area features a large advertisement for "Poppit!" with a "Play Now!" button and a description: "Pop balloons to release all the prizes and win this prickly puzzle game!". To the right, there are two smaller game recommendations: "Bejeweled 3" with a "Play!" button and "SCRABBLE" with a "Play!" button.

43,228 Players Online

EA Help US / CA UK

pogo.com Play Over 100 Free Online Games! Find A Game

Home Games My Friends Prizes Pogo News More

All Games Puzzle Games Board Games Card Games Word Games Casino Games Arcade Games

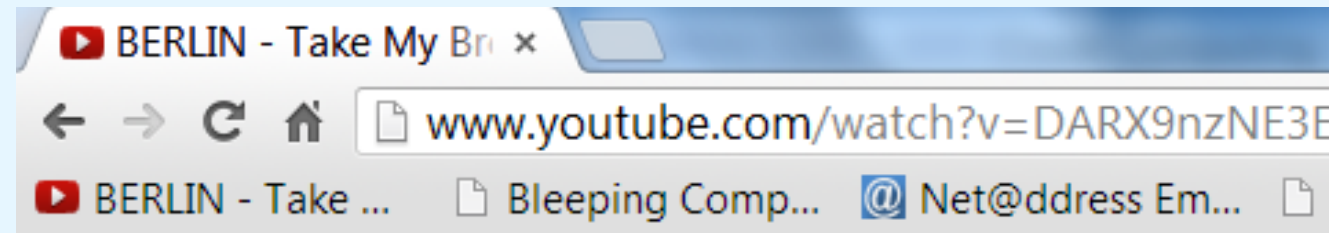
Poppit!™
Pop balloons to release all the prizes and win this prickly puzzle game!
Play Now!

Bejeweled 3
Classic mode version of the most popular puzzle game of the century.
Play!

SCRABBLE
Play the classic game of SCRABBLE free with up to three other players.
Play!

We already use the cloud!

- Listen to Music
 - Pandora – Internet Radio
 - Spotify – All the music, all the time
 - <https://play.google.com/music/listen>
 - YouTube
 - Favorite Song



Today's Devices Can Link Together Via the Cloud

Smart Phones

Tablets

Desktops

Laptops

External Hard Drives

Cameras

Printers

What is Storage in the Cloud?

- Redundant back-up of your important files/data/photos, etc.



iCloud

- Built into every iOS device and Mac
- Access music, photos, calendars, contacts, documents, and more



Android Google Drive

- Built into every Android phone, Chromebook, etc.
- Access through your Gmail account
- Music, photos, calendars, contacts, documents, and more



Chromebooks

- Are all about the cloud
- Designed primarily to use when connected to the Internet
- Google's Chrome OS
- Don't need security software
- Automatically checks for and applies security updates

Chromebooks

- Use Google Docs
- Can access them directly from Chromebook
- Can work off-line and save to USB drive
- School districts use Chromebooks for students and staff

Backup / Storage in the Cloud

- External Hard Drive
- DVDs
- Redundant = Cloud
- Data stored in multiple locations
 - Protected – Password
 - Encrypted
 - Access anywhere / anytime
- Latest version v. many versions
- Free v. Paid

Backup / Storage in the Cloud

FREE

- Office 365 - Unlimited
- Google Drive – 15GB
- Google Photos – Unlimited (changing in June 2021)
- iCloud – 5GB

Backup / Storage in the Cloud

FREE

- Amazon Prime – 5GB
- Amazon Prime Photos – Unlimited
- Dropbox – 2GB
- iDrive – 5GB

Backup / Storage in the Cloud

PAY

- Microsoft OneDrive - 100GB \$2/month
- Google Drive – 100GB \$2/month
- Amazon Prime – 1TB \$60/year
- iCloud – 50GB - \$1/month
- Dropbox – 100GB \$10/month
- iDrive – 2TB \$59/year

Organize Your Life in the Cloud

Google Calendar

The screenshot displays the Google Calendar interface. At the top, there is a search bar with the text "Search Calendar" and a magnifying glass icon. To the right of the search bar, there are links for "+Judy", a grid icon, a notification bell with a red "1", and a "Share" button. Below the search bar, a yellow notification box states "Your event was updated." The main header area includes the word "Calendar" in red, a "Today" button, navigation arrows, and the date range "Sep 29 - Oct 5, 2013". To the right of the date range are view options: "Day", "Week", "Month", "4 Days", "Agenda", and a "More" dropdown menu. A settings gear icon is also present.

The main content area shows a weekly calendar grid for the week of September 29 to October 5, 2013. The grid is titled "GMT-05" and has columns for each day: Sun 9/29, Mon 9/30, Tue 10/1, Wed 10/2, Thu 10/3, Fri 10/4, and Sat 10/5. The rows represent time slots from 7am to 3pm. Several events are visible as green blocks:

- 10am - 11am on Sun 9/29: "Hockey - Palm Springs"
- 9:30 - 12:30p on Tue 10/1: "Kindergarten"
- 1:30p - 4:30p on Mon 9/30: "Digital World"
- 2p - 3p on Wed 10/2: "Jack / Dentist"
- 9:30 - 12:30p on Sat 10/5: "GO - The Cloud"

On the left side, there is a sidebar with a "CREATE" button and a calendar overview for "October 2013". The overview shows a grid of days with the 5th of October highlighted. Below the overview are sections for "My calendars" and "Other calendars", each with a dropdown arrow.

Evernote

- Capture anything
 - Save ideas, things you like, things you hear, and things you see
- Access anywhere
 - Works with nearly every computer, phone and mobile device
- Find things fast
 - Search by keyword, tag or even printed and handwritten text inside images

www.evernote.com/



Evernote



Evernote Stuff November 2017

11/7/17

<https://www.theverge.com/2017/9/6/16215562/evernote-app-organize-how-to-use-maximum-productivity>

La Verne November Meeting

11/4/17

Find Lost Items

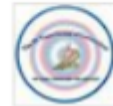
<https://www.komando.com/tips/426076/sponsored-new-tech-helps-you-find-your-lost->

WINDOWS 10 FALL Update

11/4/17

<https://www.groovypost.com/howto/using-cortana-pick-up-where-i-left-off-windows-10-feature/>

APCUG - Social Media Linnks



The PC Users Group of Connecticut

April 13 at 12:07pm · 🌐

The PCUG of CT - Updated
Computers/Technology

<https://www.facebook.com/ThePcUsersGroupOfConnecticut/>



Boca Raton Computer Society, Inc. added an event.

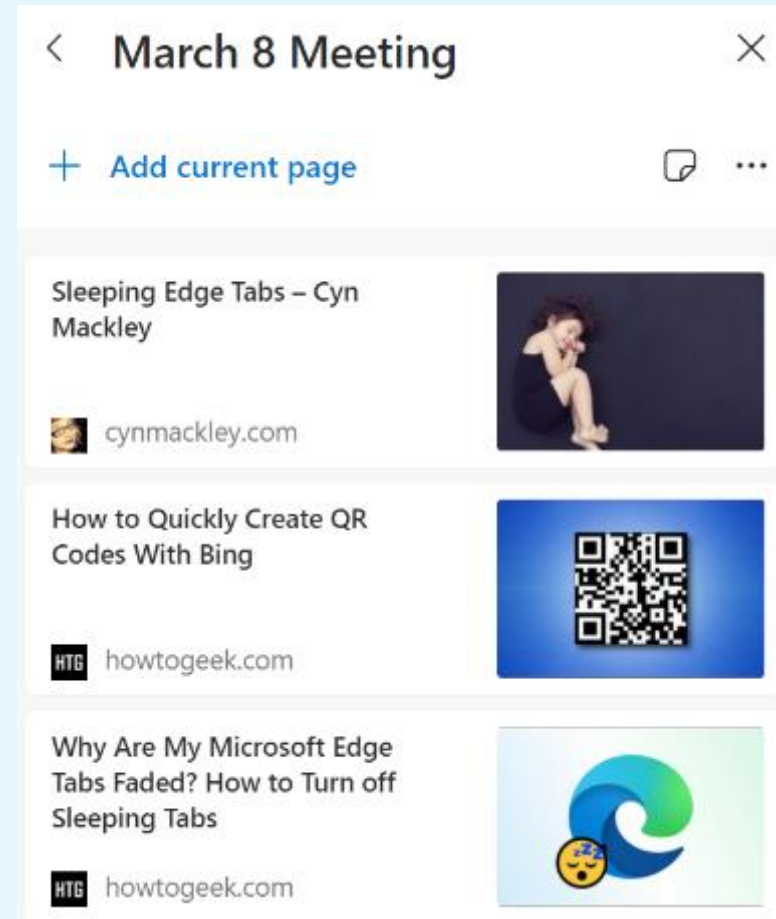
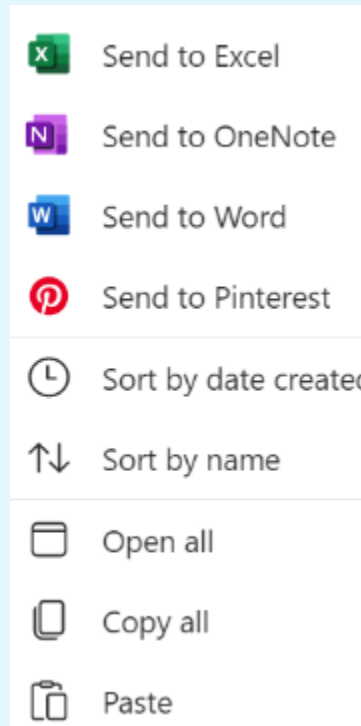
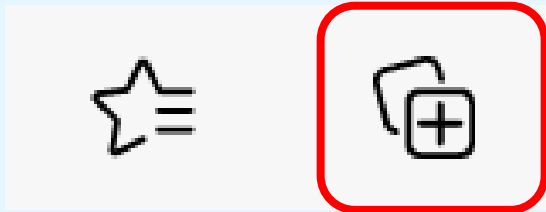
April 24 at 11:00am · 🌐

Boca Raton Computer Society
Non-Profit Organization

westchester

Edge Collections

- Helps you keep track of your ideas on the web
 - Collecting notes for research
 - Favorite shopping websites
 - Planning a trip



Communicate via the Cloud

Communicate via the Cloud

- Gmail
- Yahoo / Rocketmail
- Hotmail / Outlook
- iCloud mail



Communicate via the Cloud

- Skype
- ZOOM.us
 - Free
 - Easy-to-use
 - One:One Unlimited time
 - One:50 participants (40 minutes)
 - \$14.99/month



Communicate via the Cloud

- Google Voice
 - Choose own number
 - Good for User Groups
 - Readable text voicemail via E-mail



Communicate via the Cloud

- Spectrum VOIP phone
 - Internet
 - Nomorobo since 2014
 - Call Guard
 - Stopped **2,053,007,545** calls

Communicate via the Cloud

- Facetime for Mac - \$0.99 App Store
 - Video Calls
 - Mac to Mac
 - Mac to the I's



Streaming with the Cloud
Playing Games in the Cloud
Social Media is in the Cloud

Streaming with the Cloud

- How long has it been since you have been to Blockbuster?
- Do you still have your cassette player?
- With the power of the Cloud, we are streaming
 - Video into our devices
 - Watching YouTube videos on our TVs
 - Attending lectures

Streaming with the Cloud

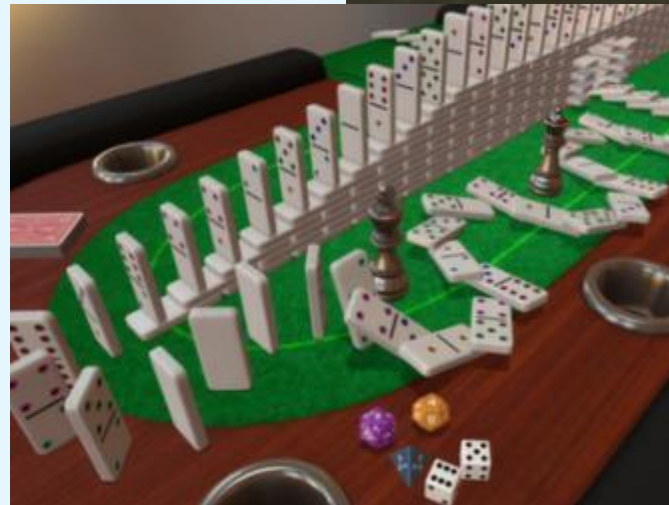
- Who hasn't watched...
 - Netflix
 - Prime Video
 - Hulu
 - Apple TV
 - Disney+
 - Roku – Discovery+
 - Locast to cut the cord and watch local channels

Streaming with the Cloud

- No one wants to experience a lag in their streaming
- Cloud computing allows companies to ensure highest viewing quality for consumers
- Cloud technology will continue to improve our streaming experience

Playing Games in the Cloud

- Play online board games with Tabletop Simulator on Steam



Reading in the Cloud

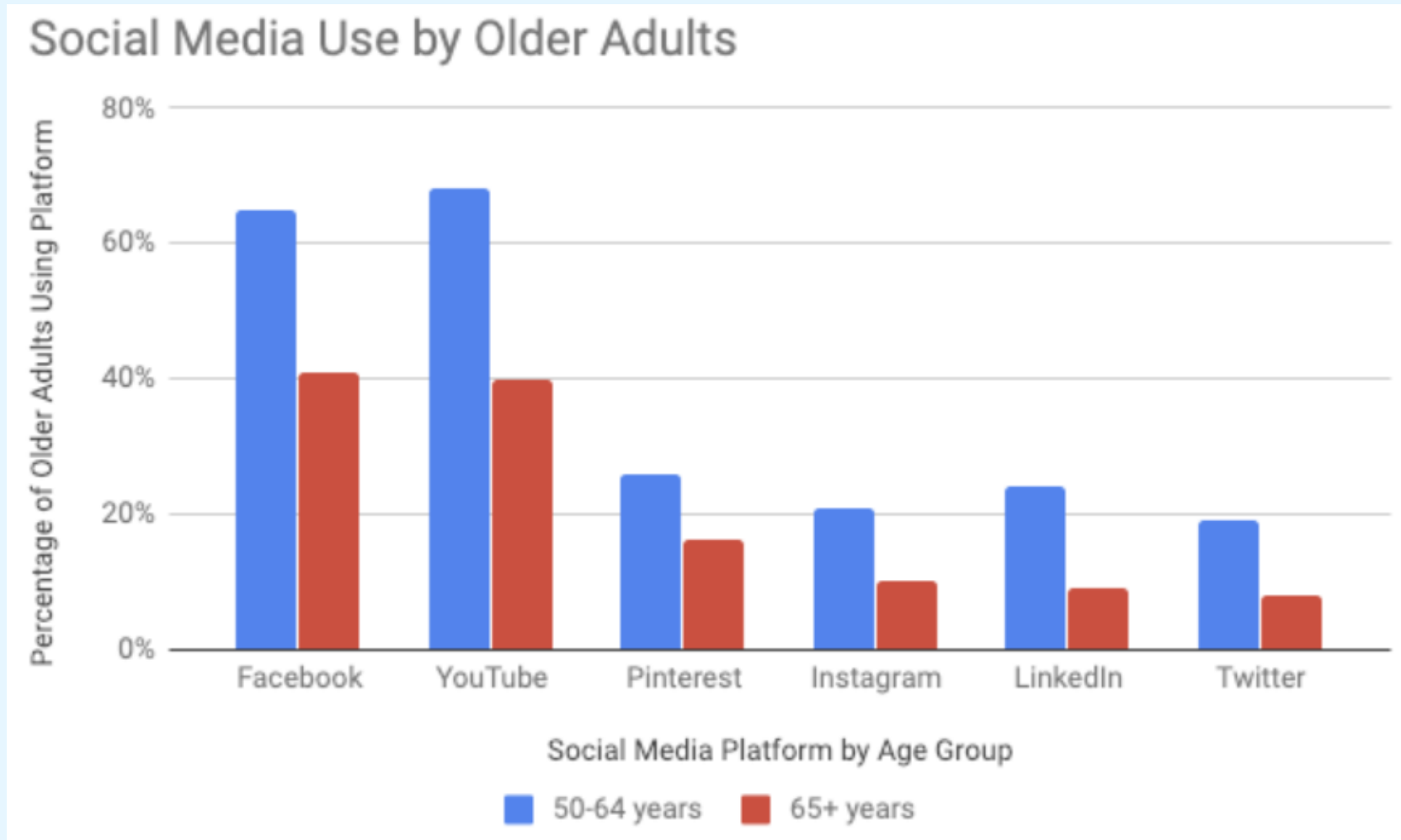
- Are you a fan of reading books with an eReader, your tablet or phone?
- There are many apps for reading eBooks in the Cloud via the Internet
- Use Calibre to manage your eBooks
- Access and sync your content from any device with
 - Google Drive - OneDrive - Dropbox

Social Media – it's in the Cloud

- Facebook
- YouTube
- Twitter
- Instagram
- Pinterest
- Nextdoor

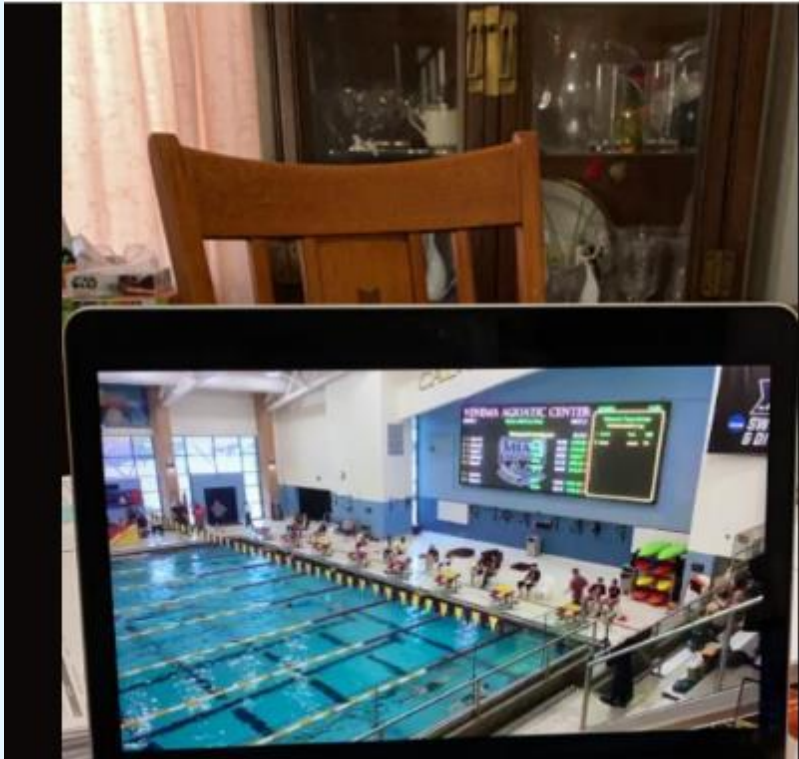


Social Media – it's in the Cloud



Social Media - Facebook

Yep this what I will be looking at all day on the laptop!



Jam'n Java Facebook Live!
March 8 & March 15, 2021-- 7pm PST
2 WEEKS-2 LEGENDS!

Florence LaRue from the 5th Dimension	Mark Stein from Vanilla Fudge
 March 8	 March 15

Streamed on...
www.facebook.com/jamnjava
www.youtube.com/c/JamnJava



Social Media - Facebook

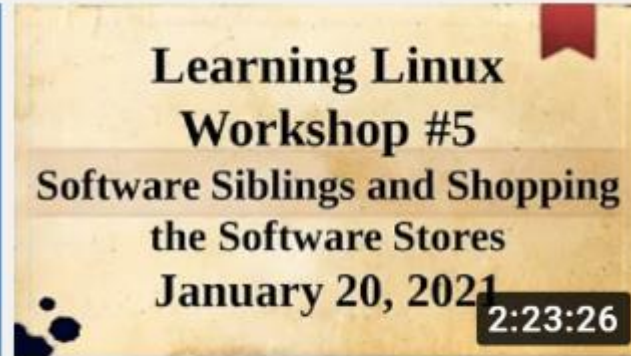


A million thank you's to Cameron Smyth and the entire City Council for saving our hometown rink! And to all City staff who have been hard at work bringing the rink up to the City's high standards. Can't wait for the reopening!!

Social Media – YouTube



Quick Easy Tips for Speaking
in Virtual World, Frank...



Learning Linux Workshop #5
- Software Siblings and...



Drones and Autonomous
Flight, APCUG Wednesday...



NASA's Mars 2020 Perseverance Rover
Mission Real-time Tracker



Berlin - Take My Breath Away (Official Video) - YouTube

Social Media – YouTube

An Evening with Photojournalist Pete Souza

College of the Canyons proudly welcomes American photojournalist and best-selling author Pete Souza to the School of Visual & Performing Arts' Virtual Industry Insight Series on Thursday, Feb. 18.

Social Media – Pinterest



Today

Explore

Search for easy dinners, fashion, etc.

Log in

Sign up

Follow



Dennis Fuerst

16 Followers • 5 Following



Social Media – Instagram Sharing Photos



westranchhockey • Follow



westranchhockey . has committed to play for the Matadors. The 6'3" 175lb goalie was a standout for the start up West Ranch Wildcats Hockey team in the LA Kings High School Hockey League. Jack was featured as the LA Kings Player of the Week several times and lead the Wildcats to the playoffs each year he was on the squad. Jack brings great size and work ethic to the Matadors



45 likes

SEPTEMBER 2, 2018

Social Media – Twitter

Abby Stokes @abbystokes · Oct 22, 2015
Battery saving tips for smartphones + tablets + portable battery charger recos -> tinyurl.com/owxwzbnk #techtips



Abby Stokes @abbystokes · May 6, 2015
There's still time to shop! 5 TECH GIFTS FOR MOTHER'S DAY -> tinyurl.com/oanhbqv #mothersdaygiftidea



APCUG @apcug · 12h
5 Essential Google My Maps Features You Should Know



5 Essential Google My Maps Features You Should Know
You've used Google Maps, but what about My Maps? This tool can come in handy for a variety of reasons.
makeuseof.com

APCUG @apcug · Mar 4
Fraudulent fundraiser uses illegal robocalls to harass consumers



Fraudulent fundraiser uses illegal robocalls to harass...
In 2015, the FTC and state partners sued and shut down four sham charities that harassed millions of ...
consumer.ftc.gov



Social Media – Nextdoor

FYI #BobCatFire Evacuation
Orders & Warning



Deputy Sheriff, PIO
#LASD Joana Warren

BOBCAT FIRE EVACUATION
WARNING



Deputy Tracy Koerner
Public Agency

Person 1

Hair: white? ball cap, lightish, reddish hair, beard

Top: Greyshirt

Bottom: khaki shorts

Shoes: unk

Age: 30

Sex: m

Race: Caucasian

Build: medium

Other: carrying some type of clipboard, constantly typing on phone



The Internet of Things

The Internet of Things

- Is all about the Cloud
- According to analysis firm Gartner, the number of IoT devices will be 20.8B by 2020
- 2.5 IoT devices per person on the planet
- Each IoT device needs own password
- Install updates in timely manner (think Microsoft Tuesday updates)

After Presentation Discussion

- We learn from each other...
- Members Helping Members = what are they using
 - Security programs
 - Password programs
 - Backing up
 - Favorite cloud apps
 - Home Automation
 - ??

Resources

- <https://www.takecontrolbooks.com/the-cloud/>
- <https://www.laptopmag.com/articles/chromebooks-vs-windows>
- Should you store your data in the cloud?
 - <http://bit.ly/3sTTVam>
- <https://onedrive.com/>
- www.drive.google.com
- www.idrive.com

Resources

- www.evernote.com
- www.skype.com
- www.zoom.us
- www.google.com/voice
- www.apple.com/mac/facetime

Resources

- www.pandora.com
- www.spotify.com
- <https://play.google.com/music/listen>
- www.youtube.com
- [How to Make Your Own Cloud-Based Ebook Library \(makeuseof.com\)](http://makeuseof.com)

A photograph of a bright blue sky filled with soft, white, fluffy clouds. The clouds are scattered across the frame, with a larger, more prominent cloud in the lower-left and center. The overall scene is bright and airy.

*The Future of Computing is Here,
in the Cloud!*

Questions?

Judy Taylour, APCUG Speakers Bureau
www.apcug2.org / Member Benefits

Jtaylour (at) apcug.org