



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

**Willow Valley Computer Club
April 4, 2024**

Brought to you by....

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

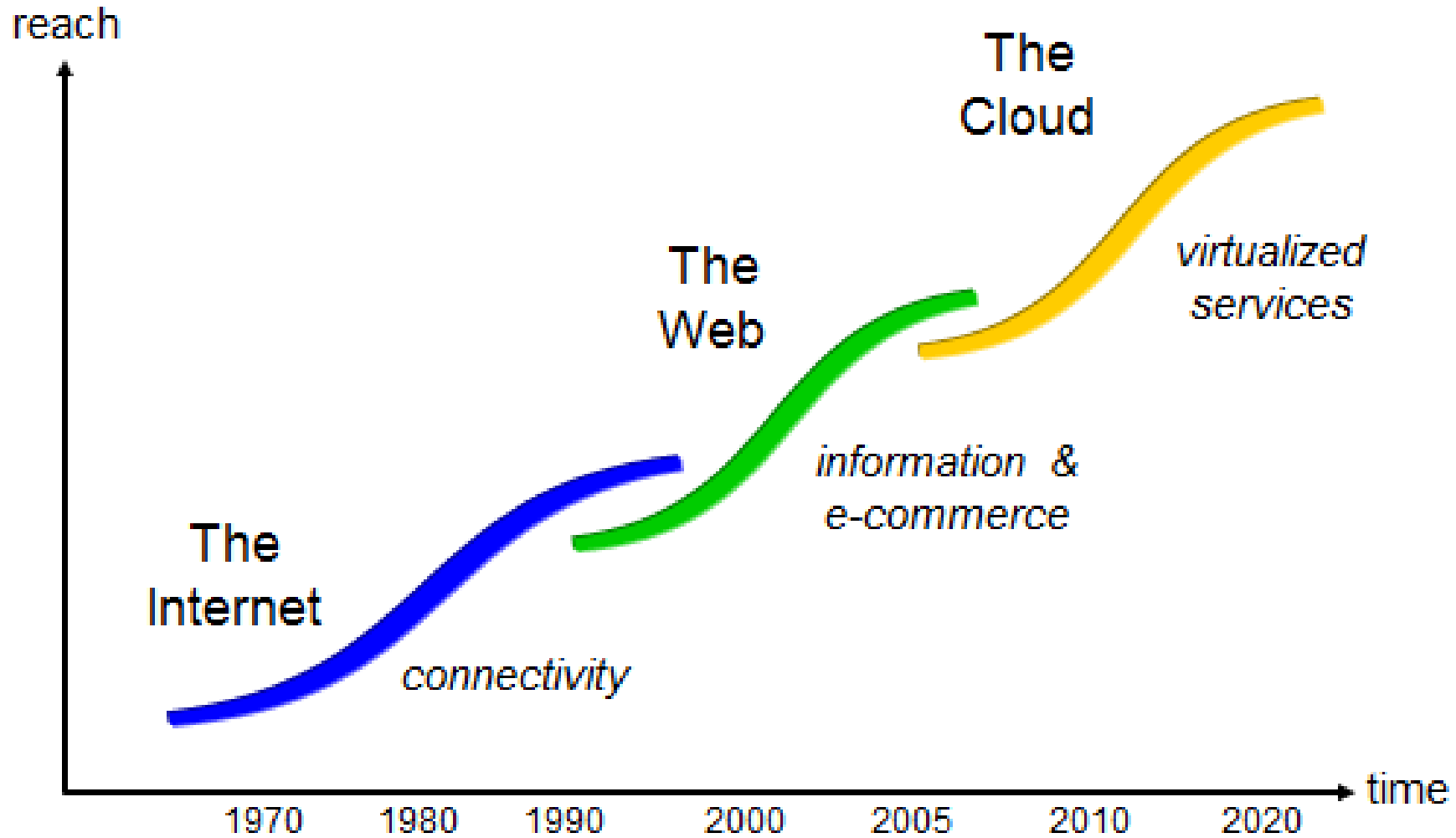
Judy Taylour, President, SCV Computer Club
Member, APCUG Speakers Bureau
APCUG Regional Advisor
jtaylour (at) apcug.org



What is the Cloud?

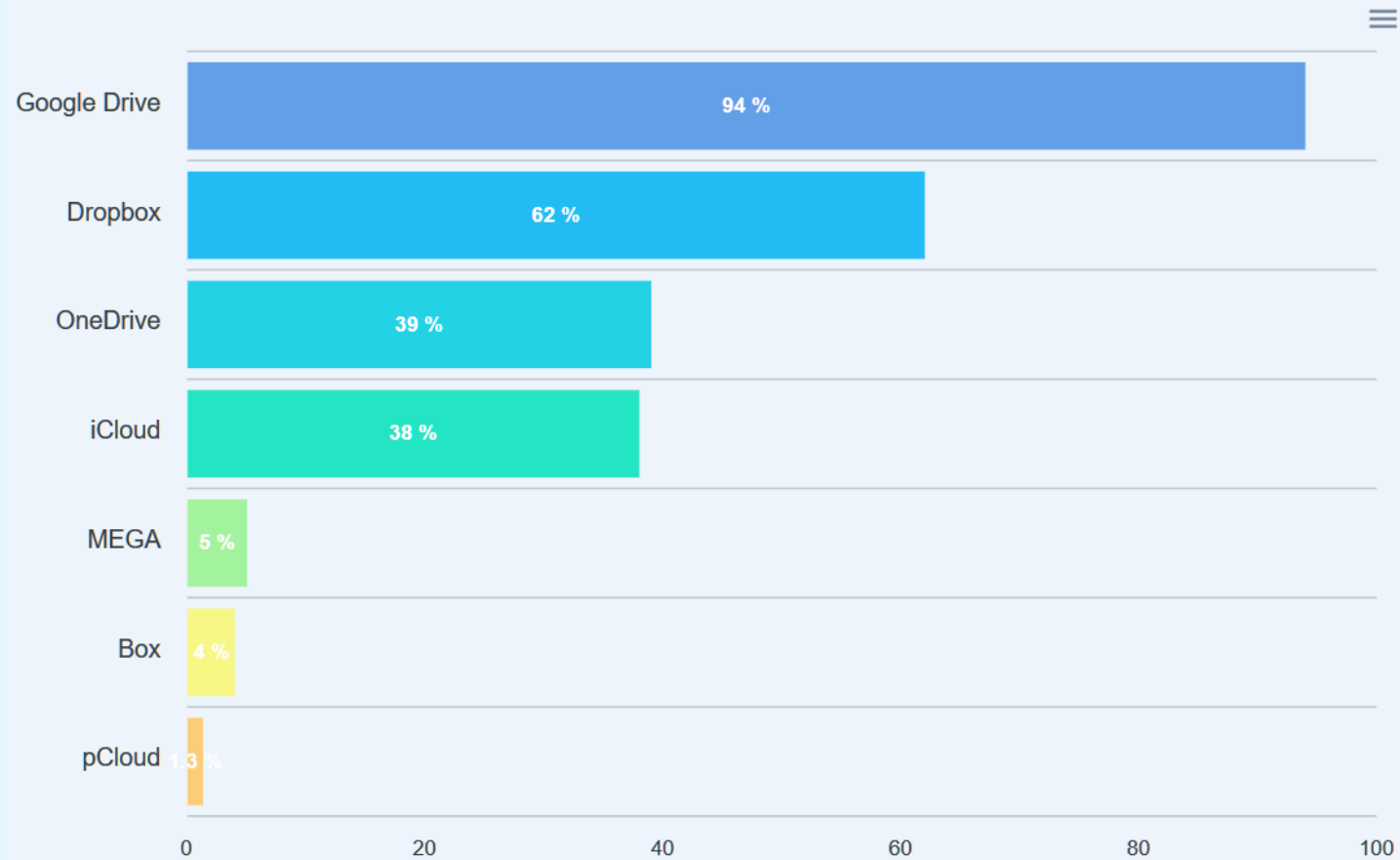


The Third Generation



The Cloud

The Most Used Cloud Storage Services



THE INTERNET IN 2023 EVERY MINUTE

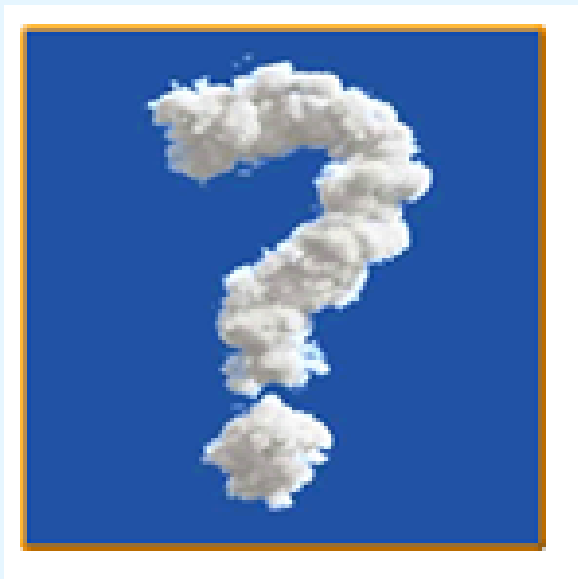


Doug Austin, 4/20/23

<https://ediscoverytoday.com/2023/04/20/2023-internet-minute-infographic-by-ediscovery-today-and-ltmg-ediscovery-trends/>

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

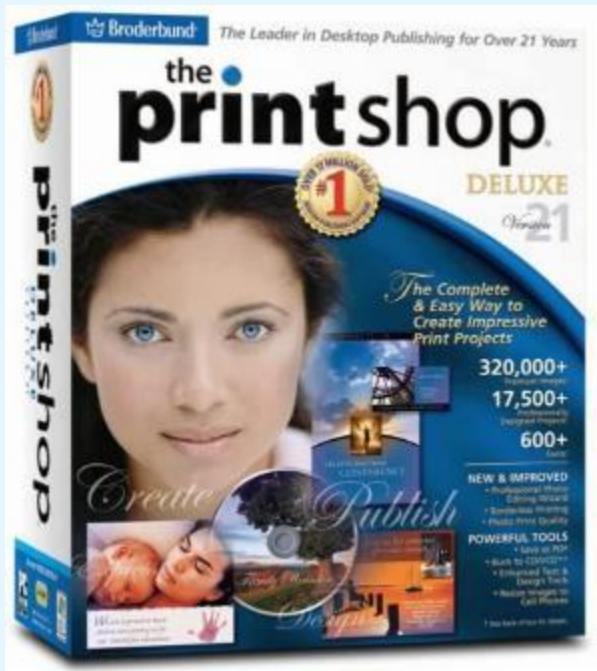
Back-in-the-Day

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



We Started 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 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

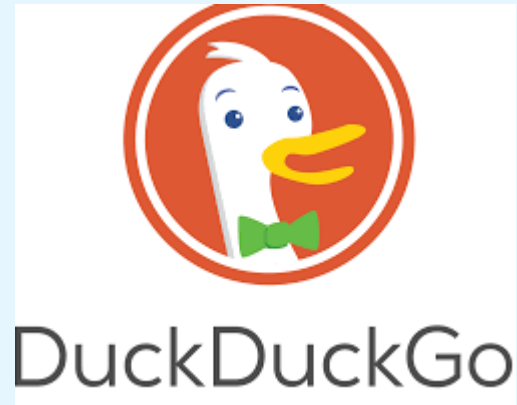
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Cloud Computing

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



The Cloud

- Since 2020, cloud computing has rapidly expanded
 - Users
 - Infrastructure
 - Spending
 - Development
- By 2025, world will store 200 zettabytes of data
- Half will be stored in the cloud
- A zettabyte is a billion terabytes (or a trillion gigabytes)
 - Each Google account = 15GB

Where does everything live?

- Server farms, aka Data Centers, that provide massive storage and processing power
- A server is a computer that provides data or services to our devices (computers, tablets, phones, etc.) over the Internet

How do we access the Cloud?

- Wi-Fi
- At friends/neighbors/on vacation/city parks/libraries
- Starbucks
- McDonald's.....
- Nothing to forget (USB drive, etc.)
- External HD stays at home

Google Data Centers



Google Data Center



Google Data Center



Tulsa World - <https://tinyurl.com/3fey32y5>

Google Data Center



Google's Shipping Container Data Center



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

- Need an Internet connection
 - Fast and reliable
- Storage space comes at a cost
 - Few online services are fully free
- Security and privacy concerns with some providers

**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

Join iDrive today!

Free 5 GB **Personal** Team Business Enterprise

First Name Last Name

Email Address Create Password

Country Code Phone Number

Your phone number may help us reach out to you for service related notifications and two-factor authentication for enhanced security.

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 with few on-site employees
- 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 12+ characters
 - At least 1 capital letter, number, symbol
 - NhrbAj#M2mgJgP10!
 - Don't use a dictionary word
- Use a Passphrase = more secure
 - Sentence or series of words, spaces OK
 - NTPCUG Meets 3rd 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

1Password

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

Chat

Zoom

Back up

What can we share?

Documents

Spreadsheets

Presentations

Photos

Videos

Calendars

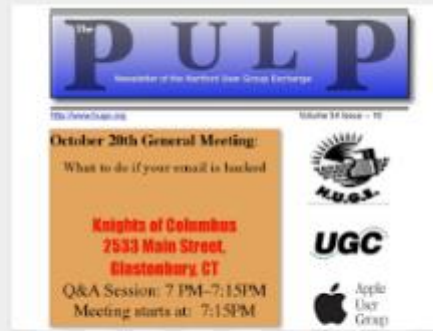
Much more....

APCUG's Newsletter Contest

- Online file sharing



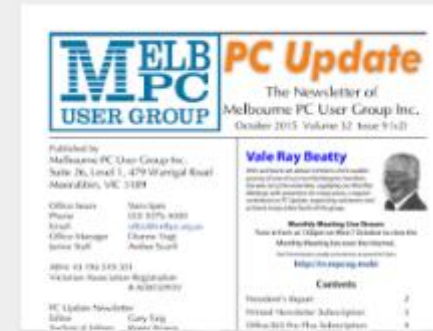
PDF The Computer Link N...



PDF PULP October 2015...

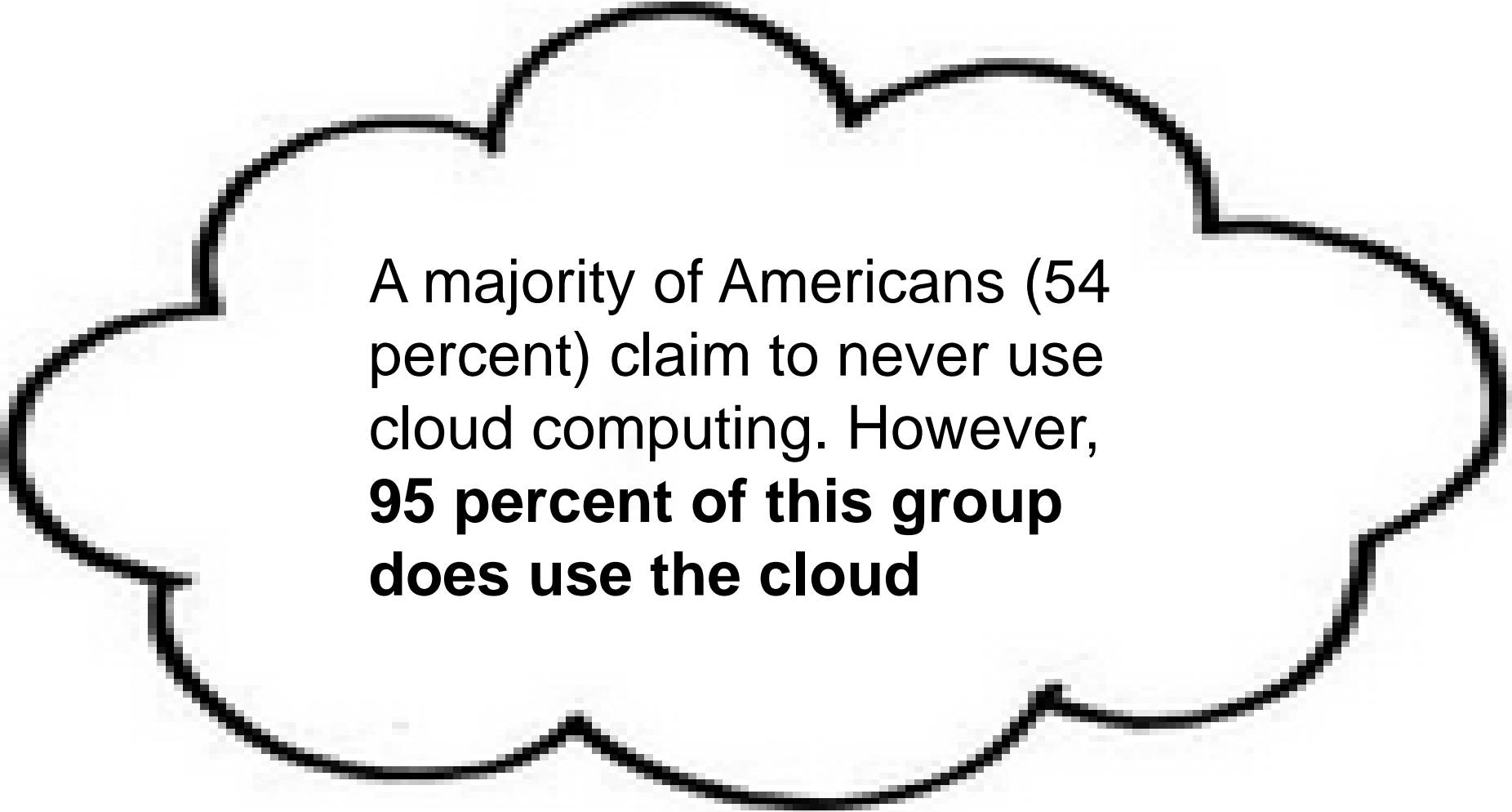


PDF PCUpdate November...



PDF PC Update October 2...

We already use the Cloud!



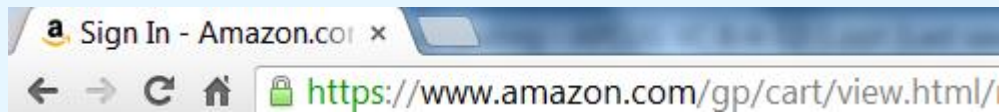
A majority of Americans (54 percent) claim to never use cloud computing. However, **95 percent of this group does use the cloud**

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

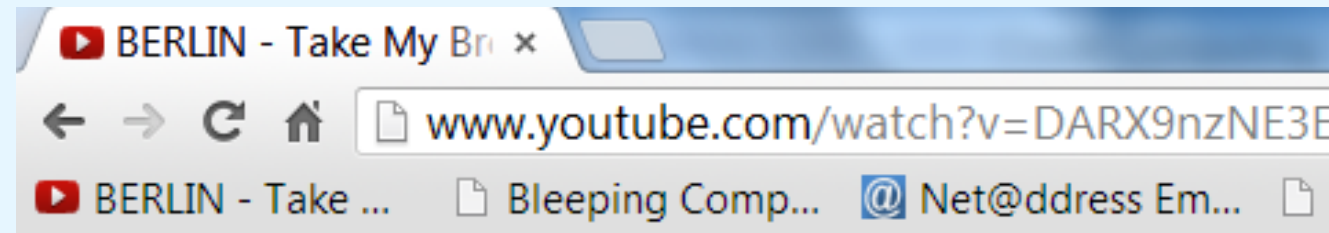
We already use the cloud!

- Online Games - Pogo



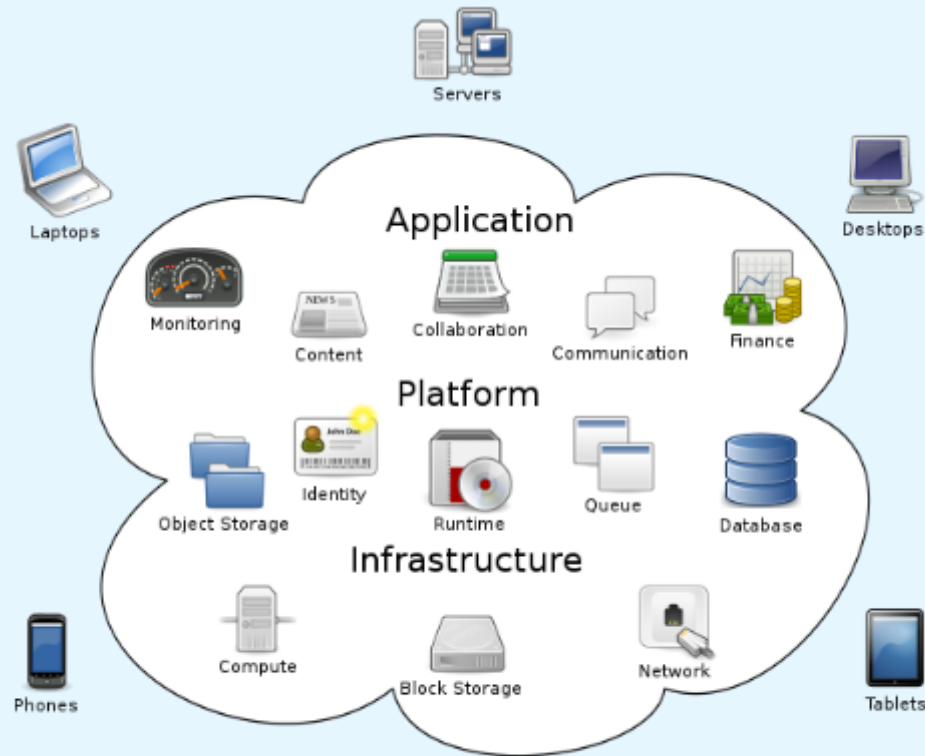
We already use the cloud!

- 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

- Smartphones
- Tablets
- Desktops
- Laptops
- Cameras
- Printers



Synchronize your data

- Allows you to access a file, folder, or directory across different devices
- Create it on your computer
- Visit a friend and collaborate with him/her to update it
- Access it on your phone to show another person

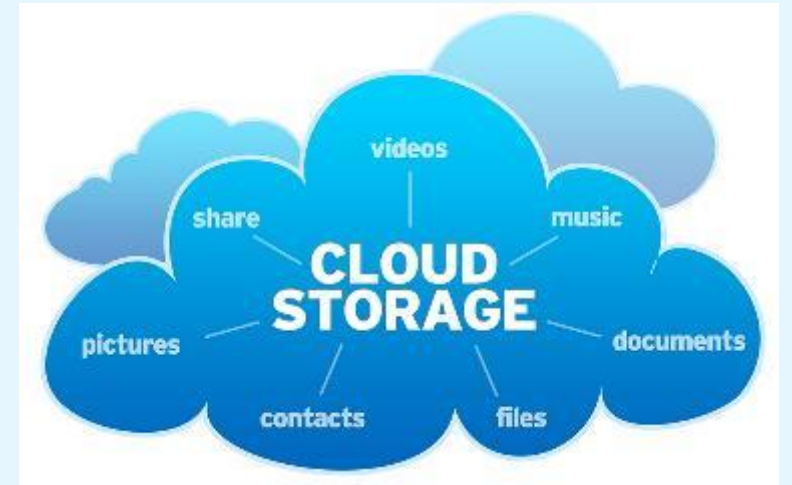


<https://www.freepik.com>



What is Storage in the Cloud?

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



What is Storage in the Cloud?



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

- Google Drive – 15GB
- iCloud – 5GB
- Amazon Prime – 5GB
- Amazon Prime Photos – Unlimited
- Dropbox – 2GB
- iDrive – 5GB

Backup / Storage in the Cloud

PAY

- Office 365 – 1TB \$69.99 / \$99.99 year
- 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 shows the Google Calendar interface for October 2013. 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 with a user profile icon. Below the search bar, a yellow notification box says "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 buttons for "Day", "Week", "Month", "4 Days", "Agenda", and "More" with a dropdown arrow. A settings gear icon is also present.

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

The main calendar grid shows a weekly view from Sunday, September 29, to Saturday, October 5. The time slots range from 7am to 3pm. Several events are displayed as green blocks:

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

Time	Sun 9/29	Mon 9/30	Tue 10/1	Wed 10/2	Thu 10/3	Fri 10/4	Sat 10/5
7am							
8am							
9am							
10am	10 - 11 Hockey - Palm Springs						
11am							
12pm							
1pm							
2pm		1:30p - 4:30p Digital World		2p - 3p Jack / Dentist			
3pm							
							9:30 - 12:30p GO - The Cloud

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

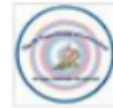
<https://www.komando.com/tips/426076/sponsored-new-tech-helps-you-find-your-lost->

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.

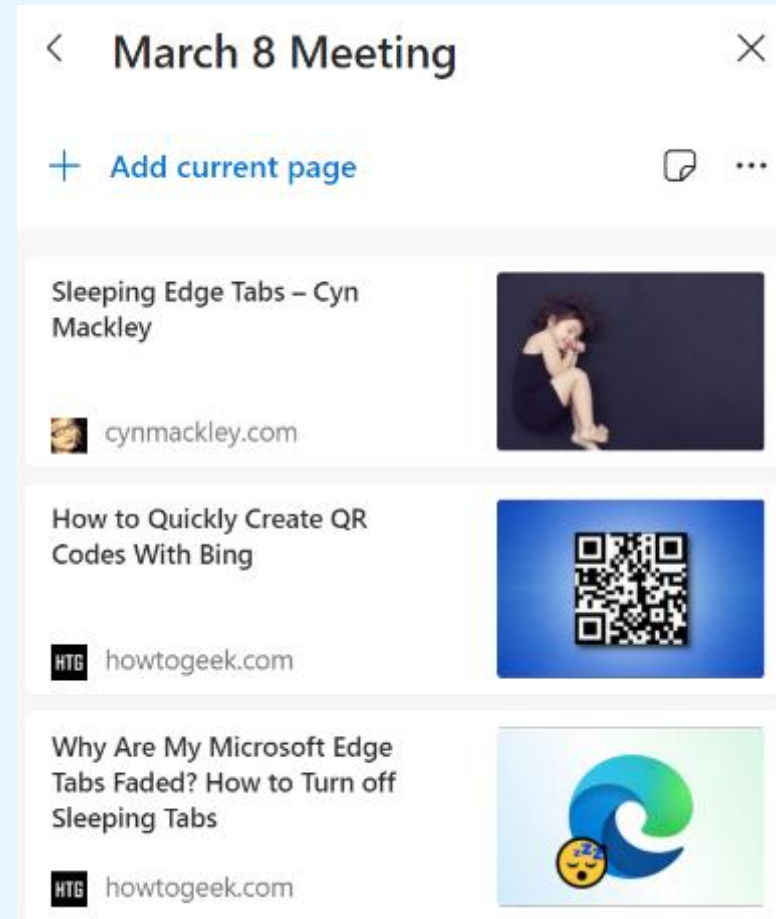
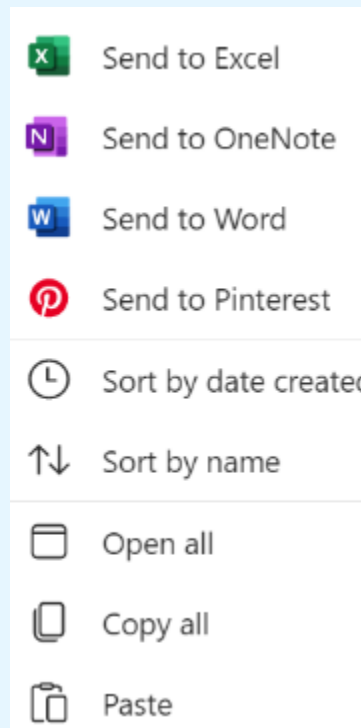
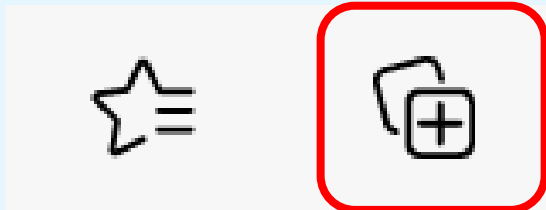
April 24 at 11:00am · 🌐

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

- Google Meet



- GoTo Meeting



- Microsoft Teams



- Skype



- Web Ex



- Zoom.us



Communicate via the Cloud

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



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

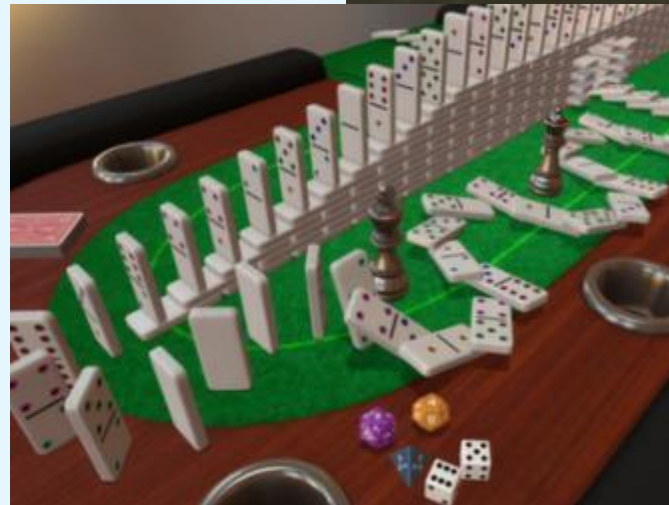
- Who hasn't watched...
 - Netflix
 - Prime Video
 - Hulu
 - Apple TV
 - Disney+
 - Roku – Discovery+
 - Locast to cut the cord and watch local channels

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

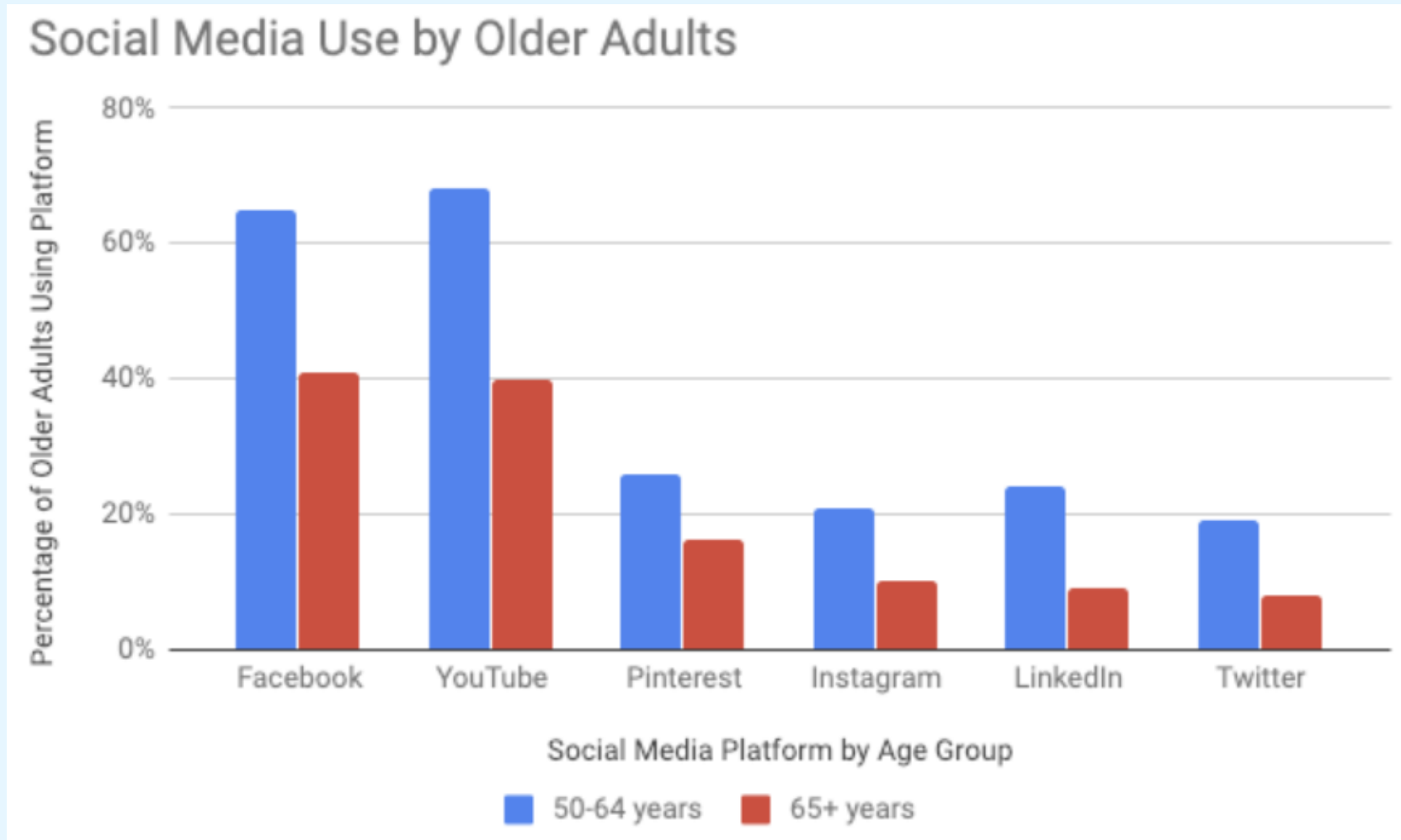
- Are you a fan of reading books with an eReader, your tablet or phone?
- There are many apps for reading eBooks in the Cloud via the Internet
- Use Calibre to manage your eBooks
- Access and sync your content from any device with
 - Google Drive - OneDrive - Dropbox

Social Media – it's in the Cloud

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

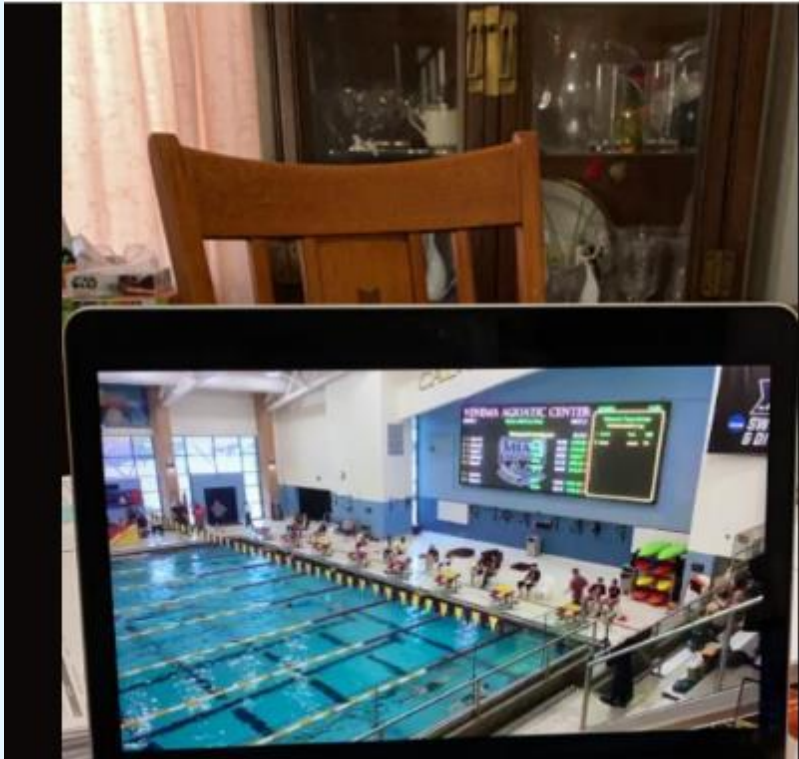


Social Media – it's in the Cloud



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 – 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

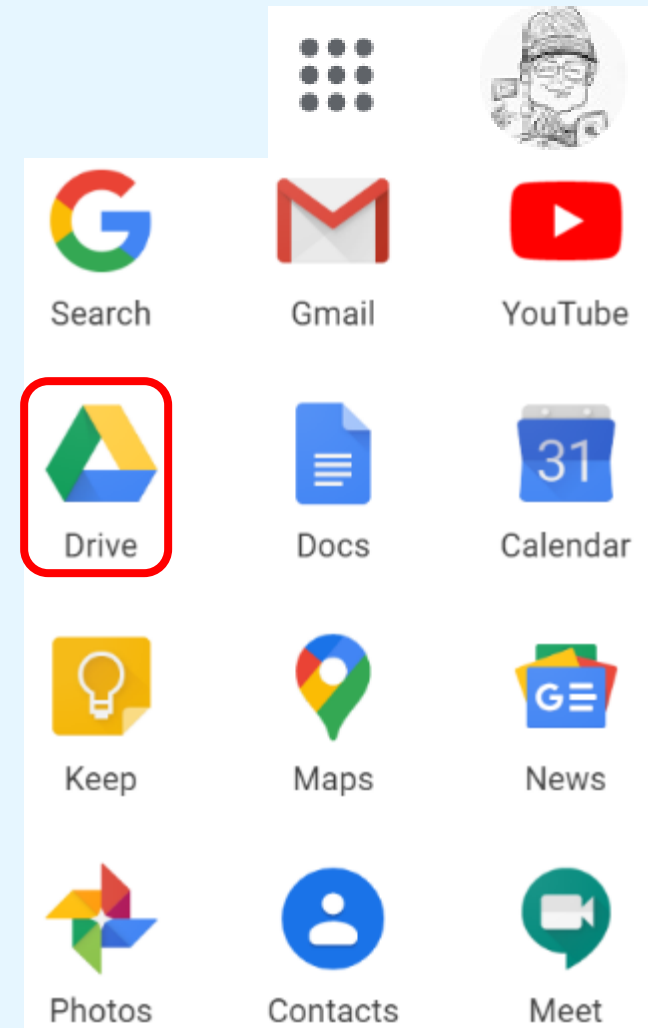
Other: carrying some type of clipboard, constantly typing on phone



Google in the Cloud

Using Google in the Cloud

- Access via Gmail account / Drive



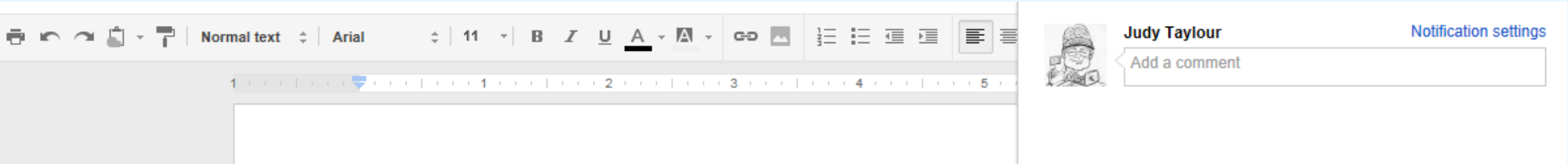
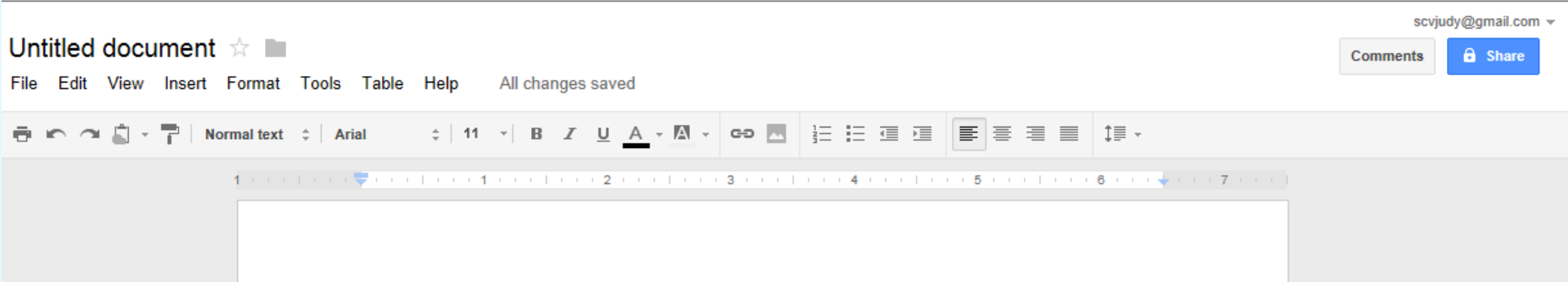
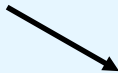
Using Google in the Cloud

- Docs - create a document, spreadsheet, slide, forms, drawings
- Share a file/folder with someone
- Calendar
- Google Photos
- Create notes and reminders with Google Keep

Google Docs

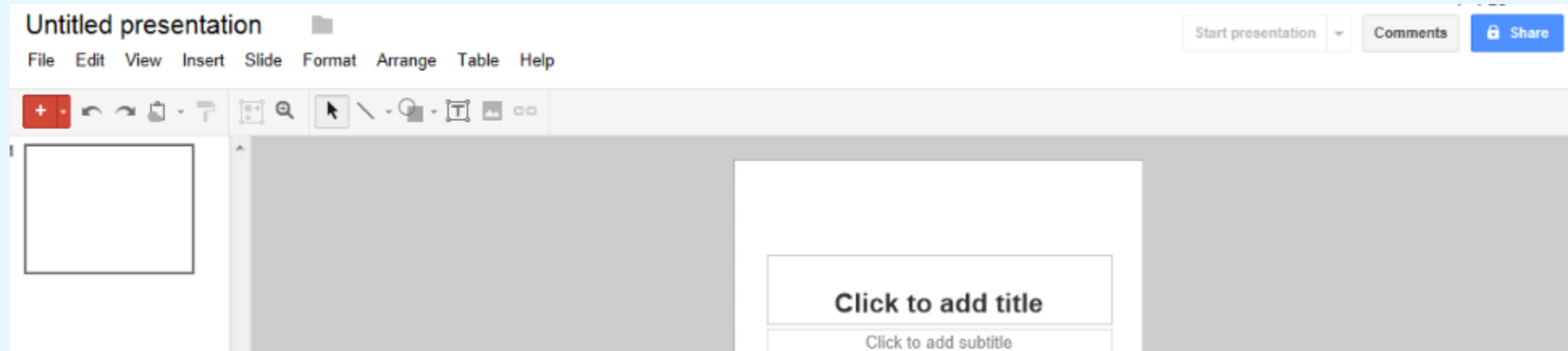
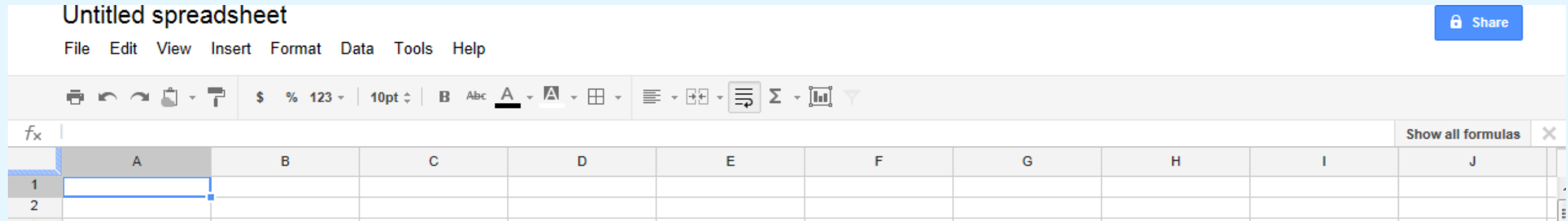
Comments

Share



Comments

Google Sheets - Slides



The Cloud and AI

- AI in Cloud computing still in early stages
- Individuals increasingly turning to Cloud to store and manage data
- Easy access from anywhere, any time
- Cloud-based AI systems can learn and evolve over time
- Becoming more effective at processing data
- AI can help improve security by identifying potential threats and taking action to mitigate them

Cloud Computing In Education

- Quickly becoming the norm
- Chromebooks + Google Docs
- Flexible, cost-effective, improve communication and collaboration, store data
- Cloud-based learning allow teachers to create and deliver course content online
- Can store student records, grades, and other sensitive data

Cloud Computing In Healthcare

- Playing an increasingly important role in healthcare industry
- Store and manage data = no more paper folders and files
- Apps and services are online
- Improve patient care
- Physicians have better access to data and analytics
- Can save money on hardware and IT costs

The Internet of Things

The Internet of Things

- Is all about the Cloud
- Huge amount of data needs to be stored and processed – Cloud is the perfect platform
- TechJury.net - approximately 15.14 billion connected IoT devices as of 2023
- Equivalent to just under twice the total number of people worldwide (eight billion)
- 2.5 IoT devices per person on the planet

The Internet of Things

- 2023 – How many IoT devices per person
- 13.4 in North America
- 3.1 in South America
- 9.4 in Western Europe
- 4.0 in Eastern and Central Europe
- 1.5 in Africa and the Middle East

The Internet of Things

Largest Users

- Farmers
- Healthcare
- Energy
- Finance
- Manufacturing

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
 - ??

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!***

A photograph of a bright blue sky filled with large, white, fluffy cumulus clouds. The clouds are scattered across the frame, with a particularly large one in the center. The overall scene is bright and clear.

Questions?