Sun City Computer Club

Cyber Security SIG

May 18, 2023

Questions, Comments, Suggestions welcomed at any time

Even Now

Audio recording of this session as MP4 file Audio recording available at link shown above

Audio Recording In Progress

SIG attendees are required to be members of the chartered club sponsoring that SIG. Sun City Community Association By-law

• Ever want to be a presenter??

IDevices SIG

- A real need
- FUN
- Experienced SIG help
- Can and has been done remotely

Until then, iDevices topics in Mac Users Group

Presenter???

iOS 16.5 iPadOS 16.5 macOS Ventura 13.4 tvOS 16.5 watchOS 9.5 iOS 15.7.6 macOS Monterey 12.6.6 and Safari updates available today May 18
Very Unusual Thursday release?

Apple Updates Everything

Apple App Store After OS update Google Chrome 113.0.5672.127

• Others?



New section/feature
Personal Devices
Smart phones, smart tablets, streamers, auto entertainment, mapping, gaming consoles, DVRs, smart TVs, fitness trackers, drones, watches, AR/VR headsets, Chromebooks, ChromeOS, Linux, Android

Not Home automation, microcontrollers,

SIG News

 Computers/Tech in Healthcare Praise for Sun City residents • Our new and current ability to access: Anything Anywhere Anytime Their ability to access us Everywhere All the time Become more cyber aware

Enquiring Minds

<u>https://research.checkpoint.com/2023/ea</u> <u>stern-asian-android-assault-fluhorse/</u> Mimic legitimate apps Dormant on device Persistent, Dangerous, Hard to detect Apps that might need SMS permissions

FluHorse - Android Malware

HEB Data Leak Notification

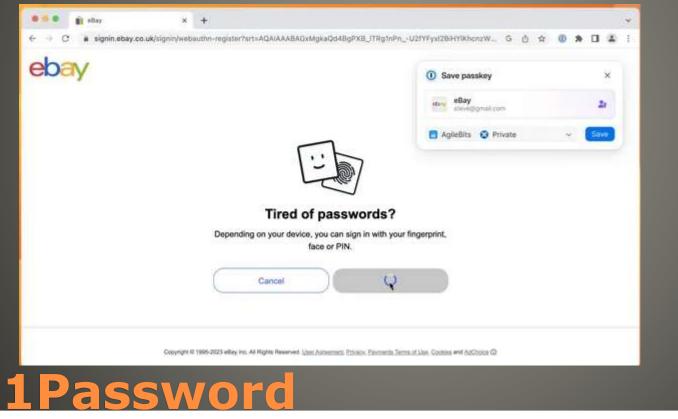
What to Do After Receiving a Data Leak Notice on iPhone Once the data leak notice pops up, you'll want to take immediate action to secure your account. Delaying means that your compromised password is accessible to others, increasing the odds that someone else may log into your account. By taking the right steps quickly, a data breach involving your accounts is less likely. Here's what you need to do.

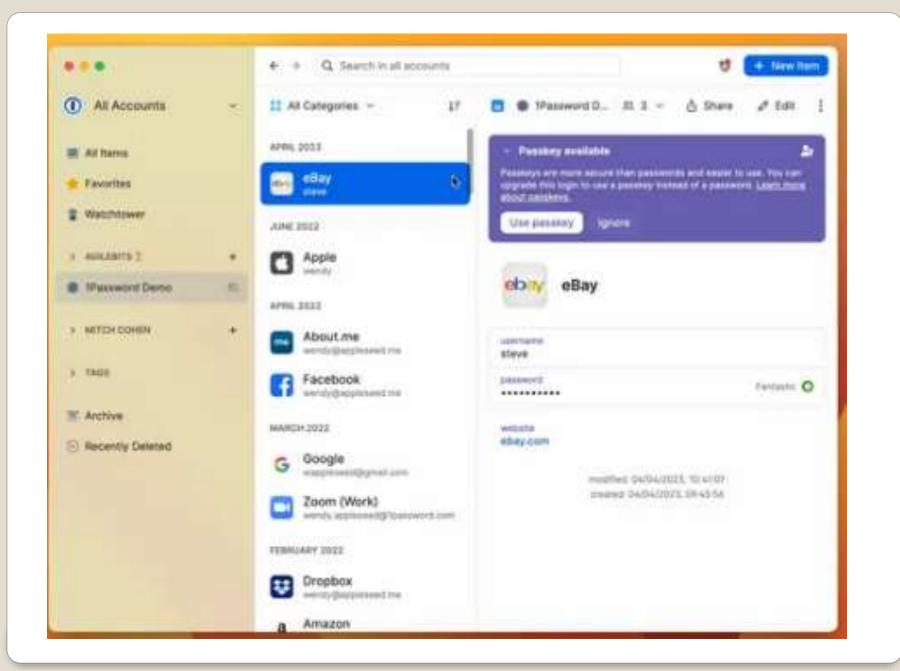
Use the "Change Password on Website Option" When the data leak notice appears on your iPhone, it contains two choices: "Change password on website" and "Not now." Tap the "Change password on website" option. By doing so, you're routed to the appropriate site and can immediately change your password.

 NBC evening news yesterday iPhone loss of digital life presentation March 2

Questions from last time

Passkey management Synch across platforms YEAHBUT Synch => external



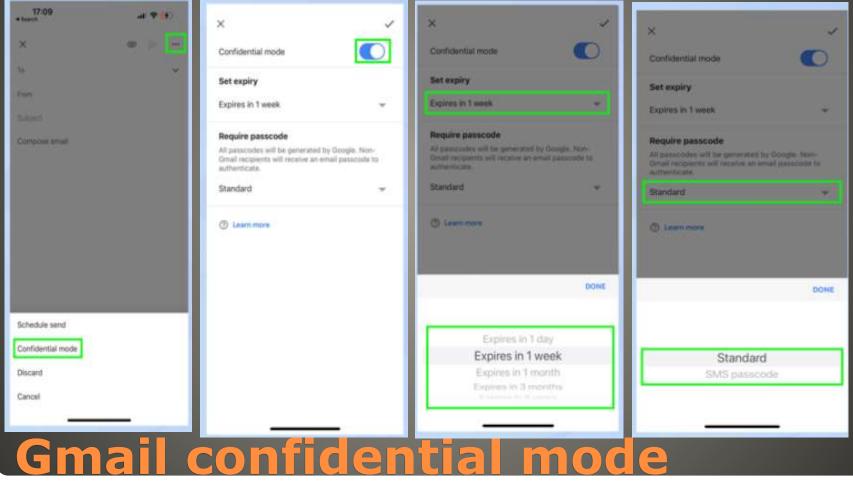


 Needs cryptographic support Windows Hello iPhone FaceID Android fingerprint sensor



• iOS & Android

• Gmail feature to encrypt sensitive emails



Standard – non Gmail recipient SMS

• Yeahbut PC or Mac?

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Gmail confidential mode

Confidential mode

Recipients won't have the option to forward, copy, print, or download this email. Learn more

SET EXPIRATION

Expires in 1 week - Fri, May 12, 2023

REQUIRE PASSCODE

All passcodes will be generated by Google. 🧿

No SMS passcode

SMS passcode

Cancel

Save

Gmail Confidential Mode

John Jenkinson has sent you an email via Gmail confidential mode:

Confidential Mode

This message was sent on May 5, 2023 at 8:24:48 AM PDT You can open it by clicking the link below. This link will only work for jenkinsonjp@yahoo.com.

View the email

Gmail confidential mode gives you more control over the messages you send. The sender may have chosen to set an expiration time, disable printing or forwarding, or track access to this message. Learn more

Gmail Confidential Mode

Some Android devices VPN with "broader IP address region"



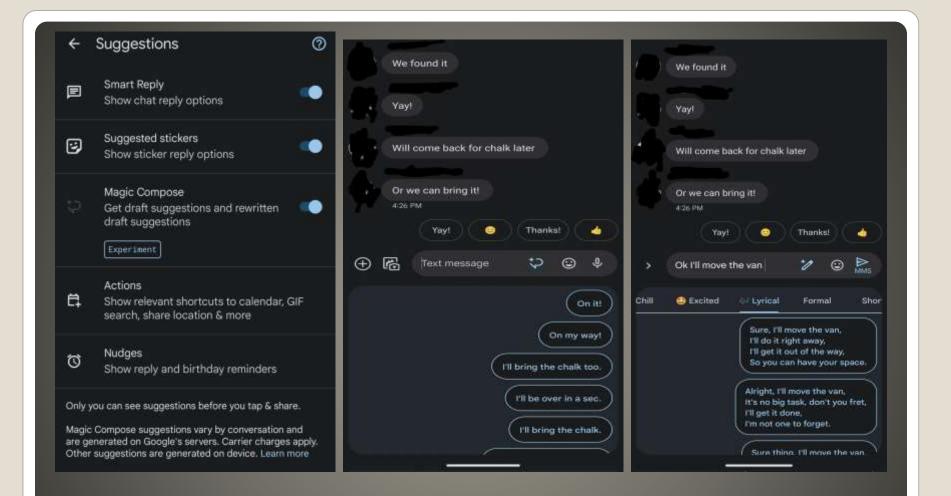
Passkeys not ready for primetime
Platform restrictive
BUT biometrics + PIN
Proprietary

Dashlane to use own password-less Master Password

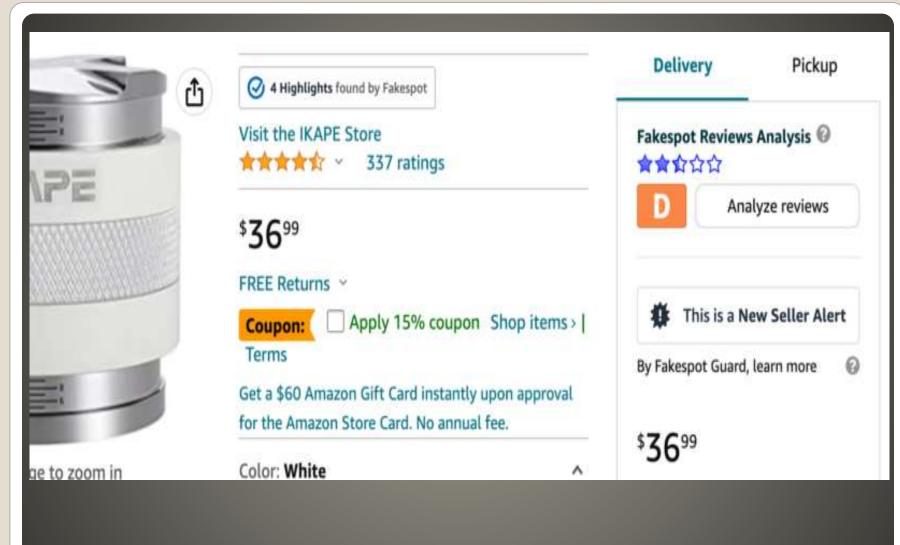
- Google Photos getting AI boost
- UT creates device reads minds
 Converts thoughts into text
- Yet another WordPress vulnerability Why should we worry?
- Google Messages
 AI powered *Magic Compose Help Me Write*
- Discord to switch to alphanumeric usernames
- Discord reporting data breach to users
 <u>3rd party support agent's account compromised</u>

Current Issues





Google Magic Compose



Fakespot acquired by Mozilla

- Multiple Sandbox protections
 Google Play Store protections
 Clean reboot
 Fresh install
- Enable & Use browser extensions
 Disable Developer mode until needed
 Install Updates
- Hackers can and will attack the user

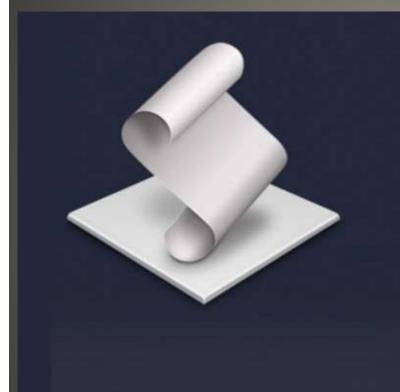
Chromebook ChromeOS

Microsoft to Throttle traffic Unsupported and Unpatched Exchange servers AI Spera – WordPress plugin Anti-Brute Force, Login Fraud Detector Criminal IP OSINT-based search engine

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Modified to attack macOS



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Signed By 🚺 Ad-hoc signature

Open With Apparency

Goland Cobalt Strike variant

Dish Network Cyber Attack February \$30M

- T-Mobile security breach
 7th incident in 5 years
 836 customers
- Ruckus Wireless Access Point Admin panel Vulnerability used to recruit into botnet
 Netgear RAX30 routers
 - 5 security flaws

Monitor activity, hijack connections, redirect traffic to malicious sites, inject malware into network traffic

 US Supreme Court ruling today May 18 Avoids ruling on Internet companies immunity over user content

Current Issues

Firefox 113
 Accessibility engine improvements
 Better performance

• Firefox 113.0.1

Fixed incorrect colors for Windows users with installed monitor/display color profiles, particularly on wide gamut displays (bug 1832215)

Fixed borders being visible around fullscreen windows for some configurations (bug 1830721)

Fixed an issue which may cause users in some configurations to experience tearing when watching videos in fullscreen mode (bug 1830792)



 Safegraph - data broker selling abortion clinic visits – now US Air Force contractor Selling locations NOT to bomb schools, hospitals Bank scam \$10,000 transfer savings Android devices shipped from factory with infostealer malware installed firmware providers "silent plugins" 9 million devices ParaMerica 5.8 million individuals PI stolen

Current Issues

Data to train Chat history GPT data sources: WEB, Licensed, Chat ChatGPT Data Removal Request Form **Removes Answers NOT training data** Country, celebrity, evidence Some countries banned Chat? Settings > Data Controls > Chat History and Training

ChatGPT have your data?

Settings Theme System Data Controls Hide Chat History & Training Save new chats to your history and allow them to be used to improve ChatGPT via model training. Unsaved chats will be deleted from our systems

Export data · Delete account

within 30 days. Learn more

ChatGPT have your data?

Yet another cloud misconfiguration Toyota vehicle data in Japan You worried/wondering?

https://vehicleprivacyreport.com/

CARS"

Vehicle Privacy Report[™]

Privacy4Cars promotes transparency, fairness, and higher privacy standards in the automotive industry.

CONSUMERS:

Get privacy car facts for FREE by searching your VIN.

Enter 17-Digit VIN

Get Privacy Car Facts

What and where is the VIN?

Find Dealers That Care About YOUR Privacy



And auto accessories
VIN Privacy Report YOU give US YOUR VIN
Data shared with Insurance companies
Data shared with data brokers
App to delete data Privacy4Cars Rentals, Ride Share, before selling

Automobile Listening & Tracking

FBI disables Turla's Snake malware EU banning facial recognition in public spaces? AI Act AI should serve people, society & environment NOT the other way around Dragos hacked "we are not going to pay" • EU Cyber Resilience Act Products with digital elements Secure product over whole life Follow cybersecurity framework show cybersecurity transparency Ensure customers can use products securely

Yeahbut Open Source? Current Issues

 Rust code in Windows 11 kernel IT'S HAPPENING WordPress Elementor plugin Remote attack to gain Administrator rights Verified Facebook malware usage increasing Facebook glitch fixed automatic friend requests when visit profile Philadelphia Inquirer unable to publish Cyber Attack Microsoft scanning inside password protected zip archives **Current Issues**

ticketmaster

Attention fans!

This message is being sent on behalf of the event promoter in regards to your upcoming event.

Garth Brooks/Plus ONE - The Vegas Residency The Colosseum at Caesars Palace

This event will be a phone-free experience. Upon arrival at the venue, tickets will be scanned and then all phones and smart watches will be secured in Yondr cases that will be unlocked at the end of the event. Guests are encouraged to have your mobile ticket open and ready for scanning. Guests maintain possession of their phones at all times and can access their phones throughout the show at designated Phone Use Areas in the venue. All phones will be re-locked in Yondr cases before returning to the performance space.

Click HERE for more information on Yondr.

As a special gift, guests will receive a QR code upon entrance into the venue that provides access to professional photos from that evening's show.

Patrons are permitted to stand during performance. Recommended ages 6+. All patrons must have a ticket. Venue reserves all rights. Entry requirements are subject to change.

For answers to frequently asked questions, visit our Help Center.

Ticketmaster Fan Support

Ticketmaster | Help | Ticket Tips | Terms Of Use | Privacy

UK TV License BBB Alert Pop-ups Call Us, Visit Us "we will fix it"

Double check fees & Subscriptions
 Avoid Fake & imitation websites
 Check before you call the listed number
 NO Remote Access to ANYTHING

Limit personal details Check & VERIFY REPORT for our sake STOP, CHECK, Ask Home > Latest News > BBB Scam Alert: Scammers may be targeting your smart TV

BBB Scam Alert: Scammers may be targeting Share 🖪 🖸 🛅 🔤 🖶 🙆 your smart TV

By Better Business Bureau, February 24, 2023.



Hackers stole your dataOnline store customers

Western Digital

Dear Customer,

We are writing to notify you about a network security incident involving your Western Digital online store account. After learning of the incident, we quickly launched an investigation to understand its nature and scope. We are working with leading outside forensic and security experts to assist with our investigation and are coordinating with law enforcement.

Based on the investigation, we recently learned that, on or around March 26, 2023, an unauthorized party obtained a copy of a Western Digital database that contained limited personal information of our online store customers. The information included customer names, billing and shipping addresses, email addresses, and telephone numbers. As a security measure, the relevant database stored, in encrypted format, hashed passwords (which were salted) and partial credit card numbers.

We have temporarily suspended online store account access and the ability to make online purchases. We expect to restore access the week of May 15, 2023.

As a precautionary measure, you can take the following steps to help protect your personal information from potential misuse:

- Be cautious of any unsolicited communications that ask for your personal information or refer you to a web page asking for personal information.
- Avoid clicking on links or downloading attachments from suspicious emails.
- Check whether your email account has spam settings to help you detect or block suspicious emails.

We hope this information is useful to you. If you have any questions regarding this incident, please call 855-493-7867, Monday – Friday, 8am – 5pm PST.

We take the protection of your personal information very seriously and regret any inconvenience this may cause you.

Sincerely,

Eyal Bek Vice President, E-commerce

May 12, 2023 ChatGPT Plus user \$20/mo Now with Internet connection

Settings



Beta features

Data controls

As a Plus user, enjoy early access to experimental new features, which may change during development.

×

Web browsing

Try a version of ChatCIPT that knows when and how to browse the internet to answer questions about recent topics and events.

Plugins

Fy a version of ChatGPT that knows when and how to use third-party plugins that ou enable.

Code interpreter

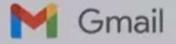
our favorite GPT models now use a python sandbox. Once enabled, ChatGPT can wild and run python code.

ChatGPT BETA Web browsing & Plugins



Coldplay lyrics in SSD firmware

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32-bit Integer	1836008192	1836008192	000D9810	54	65	60	6C	4D	65	59	6F	75	72	53	65	63	72		74	TellMeYourSecret
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Help me write

Smart Reply

Superior Rootingues: 4, * Sophia Rootingues: Superior Rootingues: Yes, I can make it! Is everything okay?? We heard your flight. Luckily I was able to rebook my flight. do you think you'll still be able to make it Luckily I was able to rebook my flight. weekend? A Can't write to sole you? We.itammerelling Provide Server

Smart Compose

4. + OF Airways

Dear Customer Service.

Lam writing to request a full refund for my canceled flight, OF 4542, on February 4, 2023. Lunderstand that you are offering a voucher as a gesture of goodwill, but I would prefer to be reimbursed for the cost of my ticket.

0

DISANT

I have been a loyal customer of your airline for many years and have always been satisfied with your service. However, I am very disappointed with the way my recent flight was handled. I was not given any advance notice of the cancellation, and I was forced to make alternative amangements at the last minute. This caused me a great deal of inconvenience and expense.

I believe that a full refund is the only fair way to compensate me for the problems I experienced. I have enclosed a copy of my original ticket for your reference.

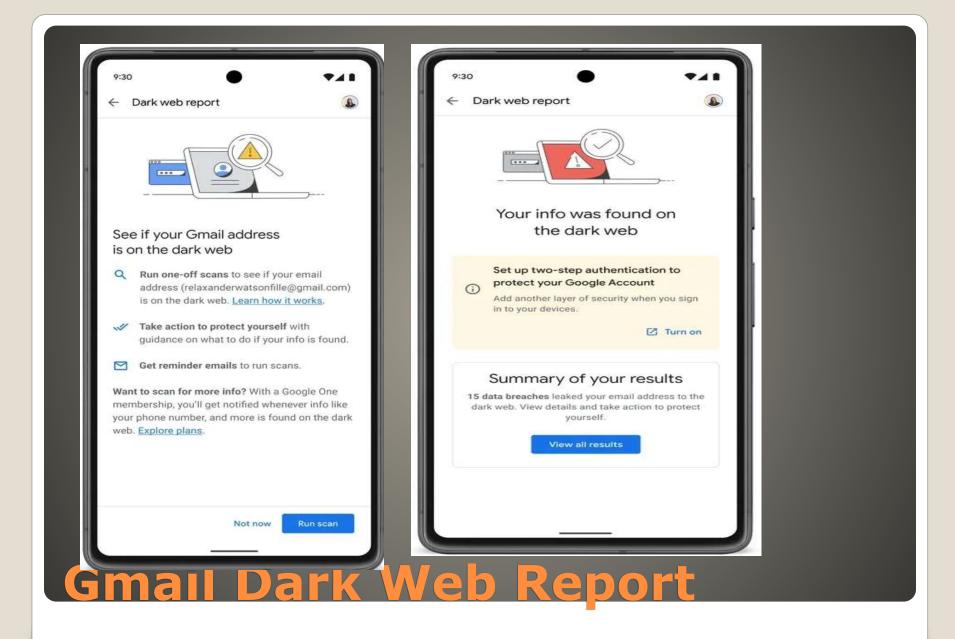
Thank you for your time and consideration.

Sincerely, Rowan

C Recreate I Elaborate

Gmail with AI

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Gmail - More Ads?

HaveIBeenPwnedFirefox MonitorNordVPN

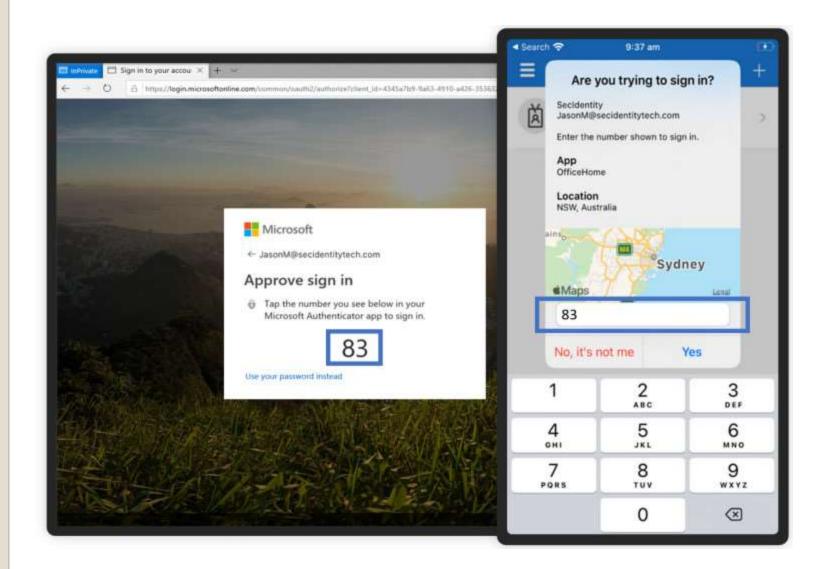
Assume it is on Dark Web
You can't remove it from Dark Web
Act accordingly

Dark Web email monitoring

• Intel Boot Guard private keys leaked?

 Microsoft Authenticator number matching MFA bypass MFA fatigue MFA Spamming Push bombing May 8 Messaging Apps BAD Kik, Snapchat, Whisper Messaging Apps not so bad Signal, WhatsApp New top-level domains .dad .esq .prof .phd .nexus .foo .zip .mov also file extension CAUTION ChatGPT App now in Apple App Store

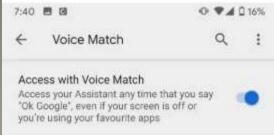
Current Issues



 Android devices "Hey, Google" "OK, Google" Buffer but not record Listening but not analyzing Tap microphone icon Launch Google Assistant Settings > Applications > Google WEB <u>Google My Activity</u> page Filter by date & product Assistant Voice and Audio Filter by date

Are you listening, Google?

Settings > Google > Settings for Google Apps Search, Assistant, & Voice Voice Match





Maps

Settings > Navigation Settings > Google Assistant settings "Hey Google" detection

Android Auto

General "Hey Google" detection



 Apps & notifications See all X apps
 Google
 Permissions
 Microphone
 Deny / Don't allow

Google App Microphone Access

Settings > Google
 Settings for Google apps
 Google Assistant
 General
 Google Assistant

No Google Assistant - Android

Google App Settings > Voice and Assistant OK Google toggle

Settings > Privacy & Security > Microphone

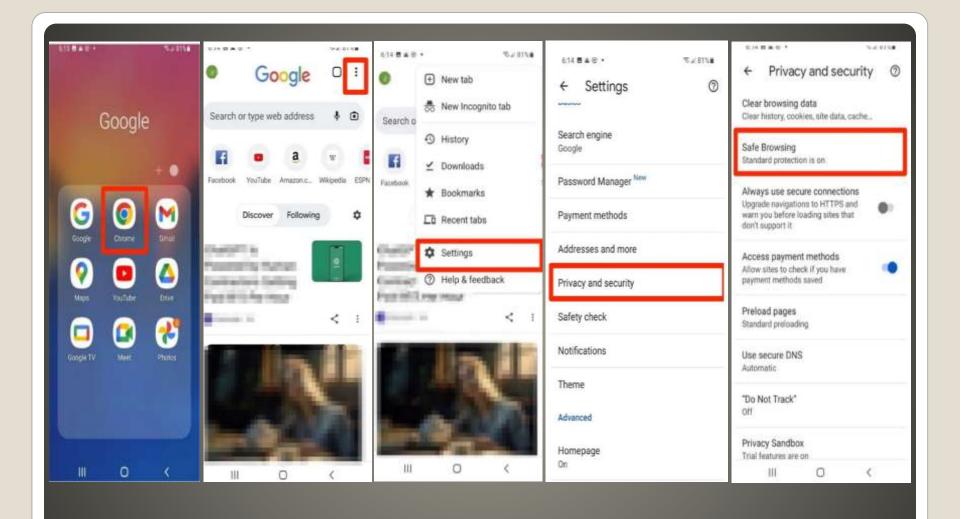
No Google Assistant - iDevice

- All the other Google Nest, Chrome, ... Google Activity Controls - your account Uncheck Include voice and audio activity
- Delete past recordings Google My Activity page Delete Activity by All Time or date range
- Automatically Delete Google History Google My Activity page Web and App Activity Choose an auto-delete option

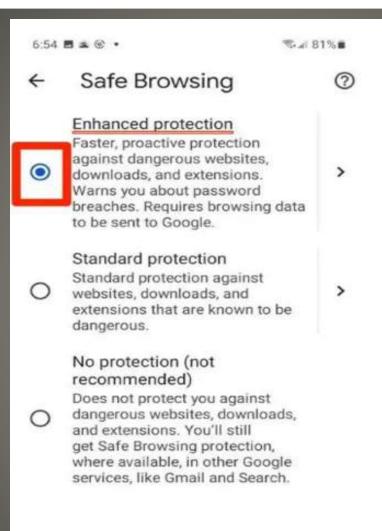
Google Voice Recording

SOME home automation & security Light control while not home Smoke & CO alarm monitoring Breaking glass Alexa Guard Plus – paid service Addition to not replacement for





Android Safe Browsing



Android Safe Browsing

Document release Sony employees, Ashley Madison, HBGary Political, Corporate, Personal Email & document retention policy



Best payment method? "Cash is king" Many panelist disagreed BUT Most payment methods are digital No Internet, No digital The Internet is vital The Internet is vulnerable Very vulnerable DNS BGP No encryption No authentication Serious probing recently Great Firewall of China Russia Internet isolation

A takeaway from Fraud townhall

• Brave 1.53

Third-party trackers now using first-party data

- Setting to limit first-party reidentification
- Per-site setting

Automatically logged out when site tab closed Avoid rate limited sites

You have remaining items to view

Limit sites re-identification

Mail service – reidentification good

Mail service with two email addresses – Not good

New Brave browser feature

• Per Site Advanced controls \sim Block trackers & ads Upgrade connections to HTTPS **Block scripts Block fingerprinting** \sim Block cross-site cookies Forget me when I close this site

Brave Forgetful Browsing

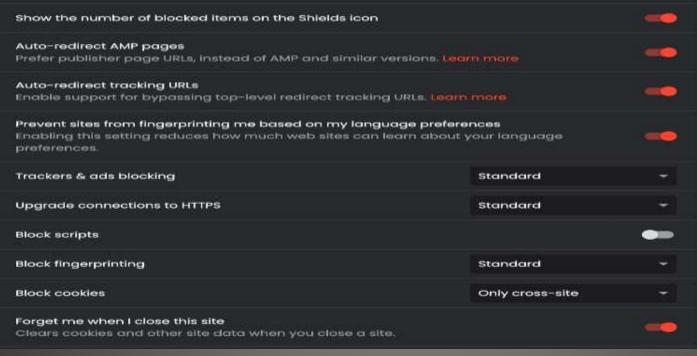
Brave://settings/shields

Shields

Block trackers and ads which follow you across the web.

These are the default Shields settings. They apply to all websites unless you change something in the Shields panel on a particular site. Changing these won't affect your existing per-site settings.

This will block most ads on websites, not Brave Private Ads — those are controlled in the Brave Rewards settings.



Brave Forgetful Browsing

Places chat threads behind locked folder Notifications as well

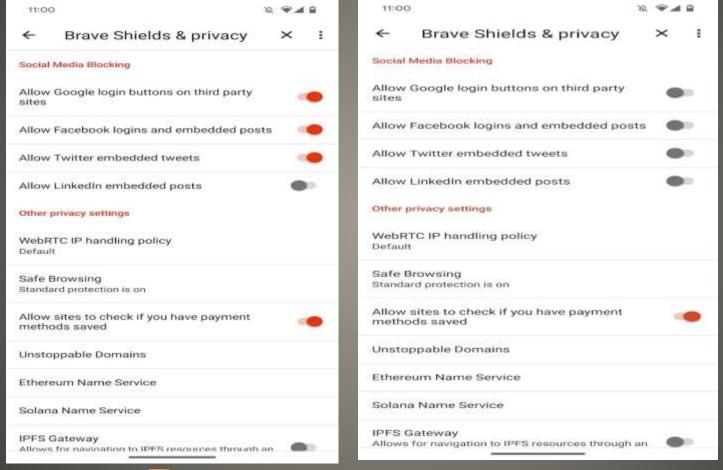


Shields – change on the fly Settings > Brave Shields & Privacy

10:48		18. 🕶 🛋	-
←	Brave Shields & privacy	\times	:
Brave s	hields global defaults		
	are the default Shields settings for new sing these won't affect your existing per-sit		s.
	trackers & ads rackers & ads (Standard)		
Always	edirect AMP pages visit original (non-AMP) page URLs, of Google's Accelerated Mobile Page s		•
Enable	edirect tracking URLs support for bypassing top-level redirect g URLs.		•
Opens	de connections to HTTPS some sites using a secure HTTPS tion instead of plain HTTP		•
Upgrad	s use secure connections e navigations to HTTPS and warn you loading sites that don't support it	•	
	Scripts JavaScript (may break sites)	-	
	Cookies ross-site cookies		
	Fingerprinting rinting blocked (standard)		

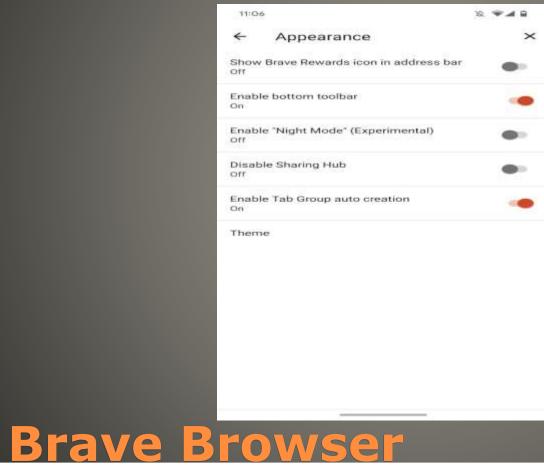


Social media embeds





Hide Brave Rewards Settings > Display > Appearance

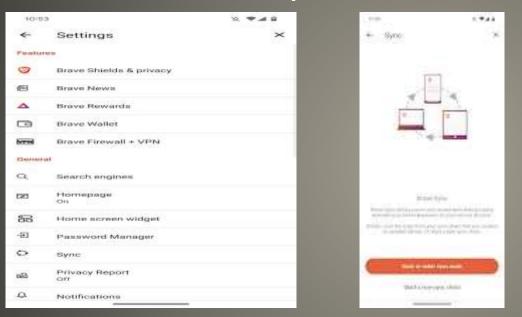


Default Search Engine Settings > General > Search Engines Standard Private

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0	Google			
۲	DuckDuckGo			
0	Qwant			
0	Bing			
0	Startpage			
0	Ecosia			

Brave Browser

Synch across multiple devices Settings > General > Sync Start a new Sync chain



Add a Mobile device or Add a computer

Brave Browser

Disable Sponsored Images in new Tabs Settings > Display > New Tab

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Brave Browser

VPN vs Tor Tested No Log policy Leta – privacy focused Google search proxy

Search	
Search Bar	
 Use the address bar for search 	and navigation
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 Add search bar in toolbar 	
$\leftarrow \rightarrow $ \bigcirc \bigcirc	□ » =
Default Search Engine	
This is your default search engine i	in the address bar and search bar. You can switch it at any time.
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Search Shortcuts	
choose the alternative search engi start to enter a keyword.	nes that appear below the address bar and search bar when you
Search Engine	Keyword
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Personal Devices

A Cyber Security SIG Feature

New Linux NetFilter flaw
 Unprivileged local users elevation to root
 Kernel framework for Iptables & UFW
 Kernel version 6.3.1



• OS Update released May 3

Raspberry Pi OS May 3 Release Notes 64-bit Mathematica added to rp-prefapps Bug fix - occasional segfault in CPU temperature plugin Bug fix - X server crash when changing screen orientation Bug fix - X server DPMS not working Mathematica updated to 13.2.1 Matlab updated to 23.1.0 Chromium updated to 113.0.5672.59 Raspberry Pi Imager updated to 1.7.4 RealVNC server updated to 7.0.1.49073 RealVNC viewer updated to 7.0.1.48981 Updated VLC HW acceleration patch libcamera

- Add generalised statistics handling.

- Fix overflow that would cause incorrect calculations in the AGC algorithm.

- Improve IMX296 sensor tuning.

libcamera-apps

- Improve handling of audio resampling and encoding using libav
- Improve performance of QT preview window rendering
- Add support for 16-bit Bayer in the DNG writer
- Fix for encoder lockup when framerate is set to 0
- Improved thumbnail rendering

picamera2

- MJPEG server example that uses the hardware MJPEG encoder.
- Example showing preview from two cameras in a single Qt app.
- H264 encoder accepts frame time interval for SPS headers.
- H264 encoder should advertise correct profile/level.
- H264 encoder supports constant quality parameter.
- Exif DateTime and DateTimeOriginal tags are now added.
- Various bug fixes (check Picamera2 release notes for more details).

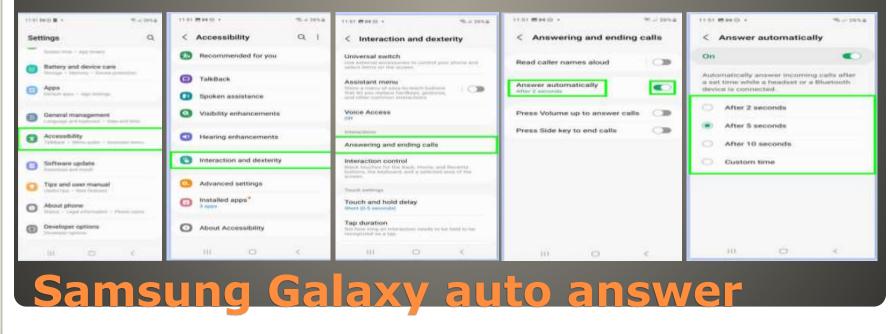
Some translations added

Raspberry Pi firmware 055e044d5359ded1aacc5a17a8e35365373d0b8b Linux kernel 6.1.21

Raspberry PI Update May 3

Requires headset or Bluetooth paired Will auto answer if Bluetooth speaker connected

 Settings > Accessibility > Interaction and dexterity > Answering and ending calls > Answer automatically > auto answer time



 High Dynamic Range • My Android device capable? Wider range color & brightness 10X Camera App Settings Samsung HDR10 **OnePlus High efficiency video** Xiaomi Dolby Vision Codec used may not be compatible

Android record video in HDR

Second public beta Android 14So, August or September?



Share iDevice with FaceID? One (1) *Alternate Appearance*Partners Child's access Settings FaceID & Passcode



Settings Face ID &	Passcode		
ATTENTION			
Require Attention for Face ID			
TrueDepth camera will provie security by verifying that you before unlocking. Some sund detection.	are looking at iPhone		
Attention Aware Featur	res		
TrueDepth camera will check dimming the display or lower			
APPEARANCES			
Set Up an Alternate Ap	opearance		
Set Up an Alternate Ap In addition to continuously le Face ID can recognize an alt	earning how you look,		
In addition to continuously le	earning how you look,		
In addition to continuously le Face ID can recognize an alt	earning how you look,		
In addition to continuously le Face ID can recognize an alt Reset Face ID	earning how you look,		

Implies use of owner of AppleID & iDevice Thus, Safari history, autofill, ...



iPhone can recognize the unique, three-dimensional features of your face to allow secure access to apps and payments. About Face ID & Privacy...

Alternate Appearance CAUTIONS

Beeper Waiting List Most messaging apps Facebook Messenger, Signal, LinkedIn, Twitter DMS, Slack, iMessage E2E issue emoji issue AirMessage Synch to MAC

iMessage on Android

telnet – insecure protocoltelnet telehack.com

File Actions Edit View Help Escape character is '^]'.

Connected to TELEHACK port 98

It is 7:24 am on Monday, May 15, 2023 in Mountain View, California, USA. There are 95 local users. There are 26647 hosts on the network.

Type HELP for a detailed command list. Type NEWUSER to create an account.

May the command line live forever.

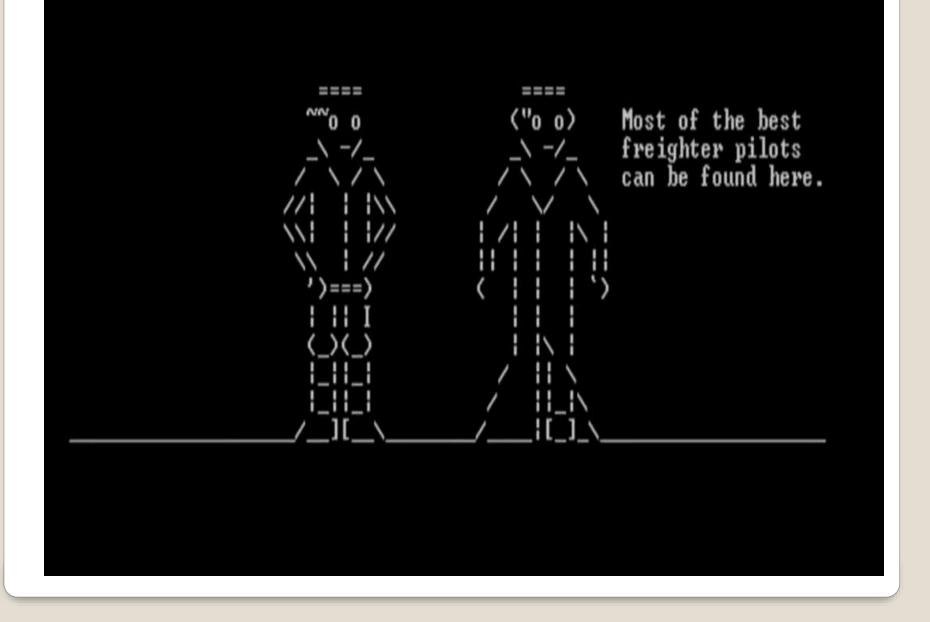
Command, one of the following:

?	a2	ac	basic	c8
cal	calc	callsign	ching	cowsay
date	delta	dir	echo	eliza
exit	factor	figlet	fnord	geoip
head	help	ipaddr	liff	login
mac	minesweeper	more	newuser	octopus
pig	privacy	qr	rain	rand
rfc	rig	roll	rot13	sleep
typespeed	units	uptime	usenet	users
uumap	uuplot	weather	when	zc

Press control-C to interrupt any command. More commands become available after login.

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NOT RECOMMENDED



 Apple 1.8 Billion Android 3 billion Find My Device Google Play Store Devices Tile no battery charge/replacement Chipolo Keychain – replaceable Wallet credit card size – not Pebblebee rechargeable Speaker Pre-order

Android Bluetooth trackers



• Telly

- 24x7 Ads
- 55" 4K HDR screen
- Sound bar
- 9" second screen
 Ads + Widgets
- Built-in Camera, Microphone, sensors
- Motion trackers
- AI

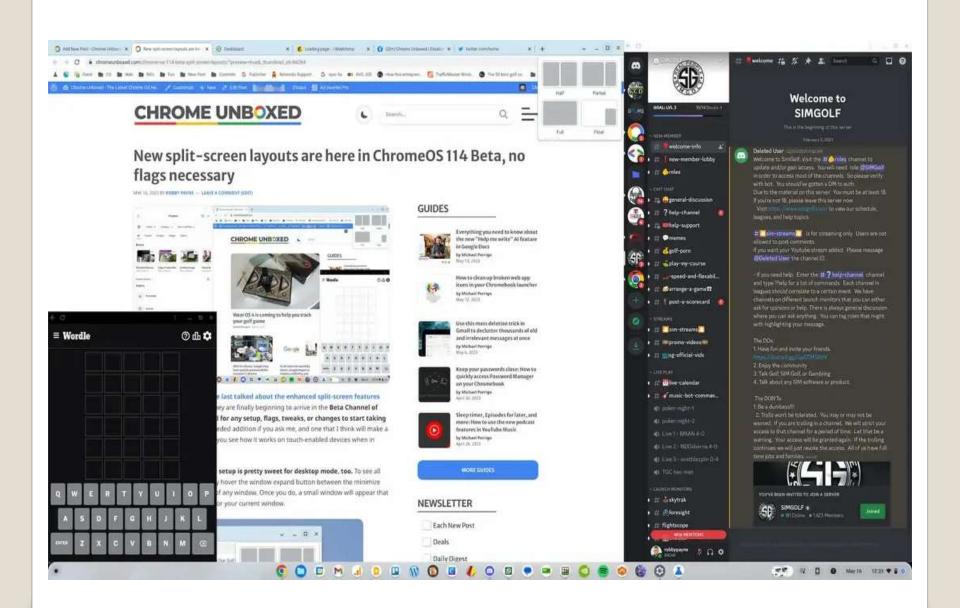
"Hey Telly, show my fantasy football roster"

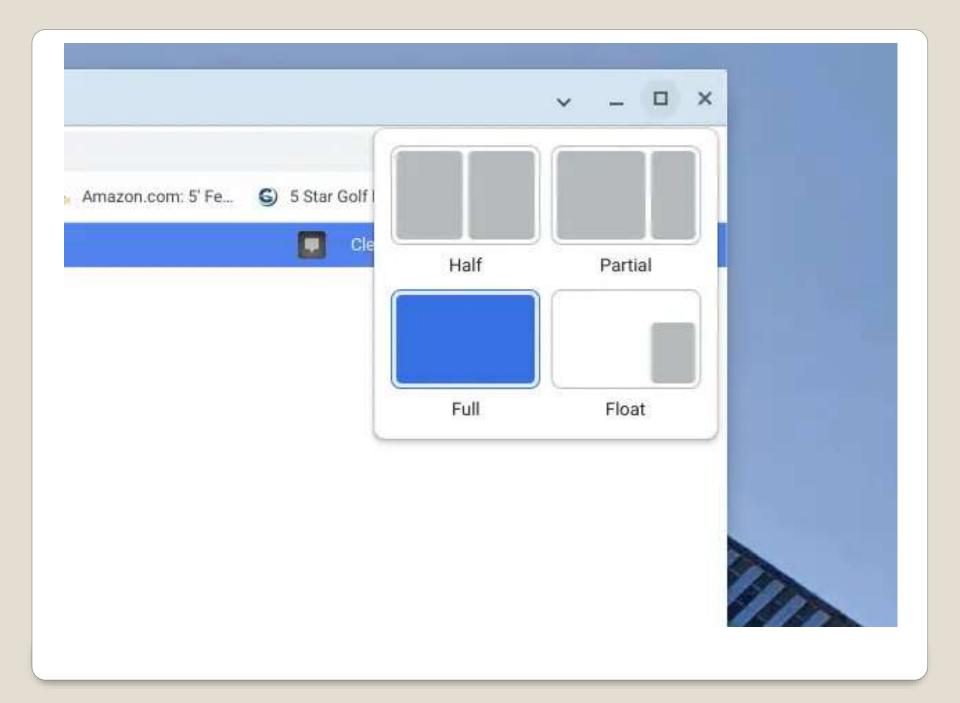
- PLUS Your DATA
- Over-the-Air Updates

Hardware

Split Screen Layouts







 Virtual Keyboard Currently in beta Larger buttons Number keys to top row Alternate uses of each key Ctrl/Alt/Arrows/tilde/minus/equals keys Switch keyboard to numbers or symbols More rounded keys Key coloring Black background

ChromeOS



Advanced > Languages and inputs Inputs and keyboards Select Language

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Settings	G. Instrume
• Annes	C Explan (IN)
E Reducti	
Converted devices	
1	Automation (•) (
C Desse	(to ensure herebased)
P Personalization	Baad of Nypher
Q_ Search and Avenuer	Anto Antonio
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Version 113.0.5672.114Question: Chromebook for financial?



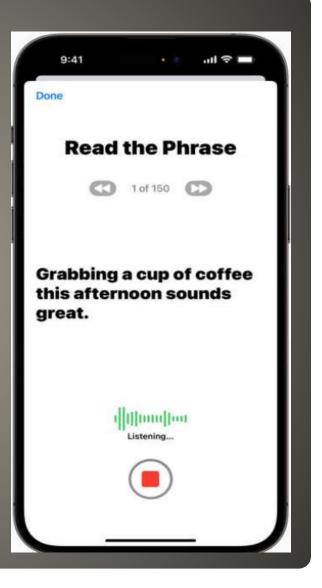


Third Generation Echo Show 5 Kids Amazon Echo Kids Plus

Also new design Echo Buds

Amazon Echo Show 5

Personal Voice
Randomized text prompts
15 Minutes of "training"
On Device AI
Live Speech
Accessibility
Helpful <-> Harmful





Oura ring Credit Card on your finger?





Ultra-wide monitors anywhere

Helpful < - > Harmful

Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs, Presentations, classes Cyber Security SIG meetings, NEWSBLOG Internet

Questions, suggestions, comments?

SCCCCyber@gmail.com