

Sun City Computer Club

Cyber Security Seminar Series

**ChromeOS
Chromebooks**

- [Audio Recording of this session](#)
- Use the link above to access MP4 audio recording

- Chrome OS chromeOS ChromeOS
- Linux based Operating System
- Designed by Google
- Open Source ChromiumOS
- Chrome browser as the interface
- Cloud based WEB applications
- 2009 Announcement
- Progressions
 - Google Docs & Browser extensions
 - Android Applications Google Play Store 2016
 - Linux Apps Debian lightweight VM

What?

- Early Netflix viewing platform
- Browser with tabs
- Google Drive
- Chromebooks Chromebox Chromebase
- ChromeOS devices outsold Macs 2020

What?

- Functionality
 - Chrome Enterprise 2017
 - Education
 - Enterprise “Grab-and-Go”
- Hardware
 - Chromebook
 - Chromebase
 - Chromebit
 - Chromebook Tab
- ChromeOS Flex

Why?

- Quick boot
- Small distribution size
- Applications

Thin Client

Chrome Apps

HTML5, CSS, Adobe shockwave, JavaScript

Progressive WEB Applications (PWA)

Integrated media player & File Manager

Android Apps 2016

Linux Apps 2018 without developer mode

Why?

- Security

Firmware

Auto Update

Sandbox

Windows 10 1100 vulnerabilities 5 years

Apple OS X 2200 vulnerabilities 20 years

ChromeOS 55 vulnerabilities 9 years

Developer Mode bash shell

Channels Stable, Beta, Developer

Why?

- Google ChromeOS & Android
- Apple MacOS & iOS
- Microsoft “they can’t make up their mind”

Multiple OS Support

- Plug it into power
- Google Account(s)
- Login & Go Helpful <-> Harmful
 - Guest access
- Ports Plug & Play
- Settings Search
- Display Options
- Top Row Function Keys
- Keyboard Shortcuts CTRL + ALT + /
- Trackpad 1 2 3 finger gestures
- Tablet Mode
- Android & Linux
- Powerwash

Quick Start

- Lower cost
- Long Battery Life
- Shareable
- Secure
- Manageable disable camera, etc. Admin Panel
- Web Apps Android Apps Linux Apps

- CPU Intensive apps
Video editing
- Internet PWA to re-synch
- Google Account Multiple
- Crossover Android App to run Windows Apps

- Trackpad

Right Click two finger

<https://www.laptopmag.com/articles/chrome-os-chromebook-touchpad-gestures>

Touch Screen

Tablet Mode

ChromeOS Trackpad

- 12 ChromeOS updates Features
- Chrome OS 97 4-week update cycle
- Security, Stability, Speed, Simplicity
- Chrome OS 98 February
- ChromeOS Flex February Older hardware
- Chrome OS 99 March
- Chrome OS 100 March
 - New launcher, Folder organization, edit spoken words, Family link, new logo
- ChromeOS 101 network based recover, name change, firmware update menu

ChromeOS 2022

- ChromeOS 102

Google Cursive note-taking, extract zip files w/o mounting first, ...

- ChromeOS 103

Phone HUB sees Android camera roll, Screencast app, Nearby Share, video editor

- ChromeOS 104

New themes, light & dark modes, wallpaper, popup calendar, open PDFs

- ChromeOS 105

Keyboard controls Android games

ChromeOS 2022

- ChromeOS 106 September
- Techtobor
 - Cloud gaming Chromebooks
 - Steam gaming
 - LumaFusion video editing
- ChromeOS 107
 - Files App resents tab, Close entire desk, merge desks, lock device clamshell mode
- ChromeOS 108
 - Files app gets trashcan, emoji via keyboard

ChromeOS 2022

- Old hardware
- Certified old hardware
- Linux?
- Synch ala ChromeOS
- BUT NO Playstore, No Android apps, no Parallels, No Linux
- Device drivers

ChromeOS Flex

- Phone Hub
- PDF editor
- Screen Captures
- Tablets – finger friendly & stylus
- Clipboard manager

ChromeOS & Android

Google Play Store
Google Chrome Web Store

- Our thanks for viewing a presentation
In Cyber Security SIG Seminar Series
- Topic suggestions are most welcome

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