Chromebooks for 2018

- Resistance is Futile -

CHROMEBOOK VIDEO

Goals of Presentation

To identify the changing role of Chromebooks

To review new models for 2018
    Prices in US dollars and current for August- 2018

New Features of ChromeOS

        Play Store
        Linux Applications
        Progressive Web Apps
        Windows 10

Running Windows 10 Chromebooks

        Kevin Tofel @ About Chromebooks
        " Project Campfire " Dual Boot
        Available on some Chromebooks
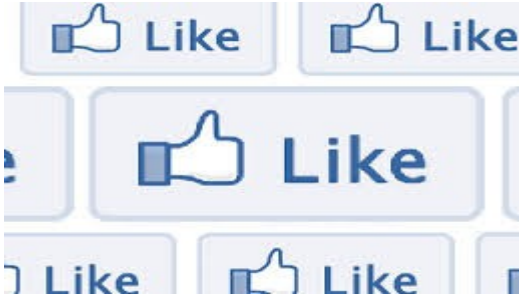   Hard ware requirement
        - Bootcamp- On Macs

Reset Microsoft Goals

Microsoft will be the innovator of new technology

" Kinder Gentler Company "

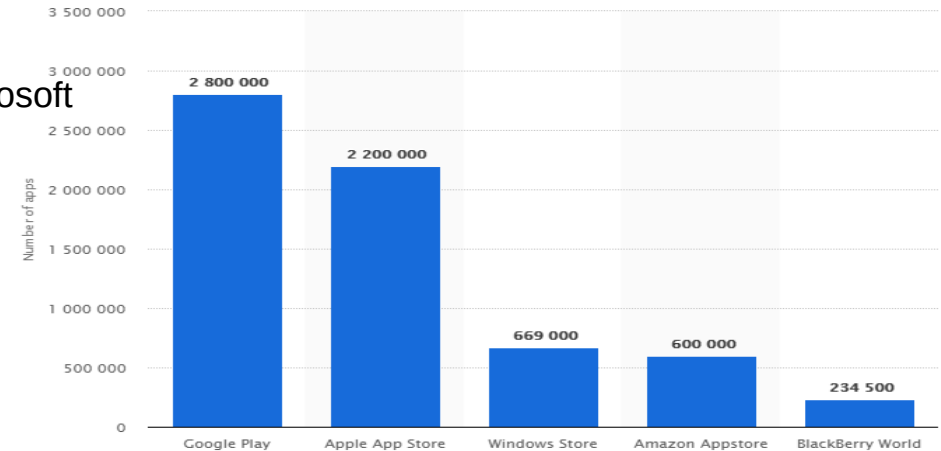"May not be the dominant OS of the future"

Chromebooks are exploding in popularity

1. People are look for alternatives

2. Chrome books are being tasked to be replacements for Microsoft Windows

3. Summer of 2018 newer and more powerful models released

4. Linux Support, Progressive Web Apps

5. Android Apps from Play Store

Number of apps available in leading app stores as of March 2017

| Google Play	Apple App Store	Windows Store	Amazon Appstore	BlackBerry World
2 800 000	2 200 000	669 000	600 000	234 500

History of Chromebooks

- First Chromebooks- Acer/Samsung 2011
- Sold directly from Google & Business Partners
- Marketed to School Boards
- Favored for their low cost
- Security and Network Administration
- Market Share(education) 80% by 2020
- CES Consumer Electronic Show LasVegas Spring 2017

    Year of the Chromebook -   Very large growth market for next 3 years

Introduction to
Google Classroom
friEdTechnology

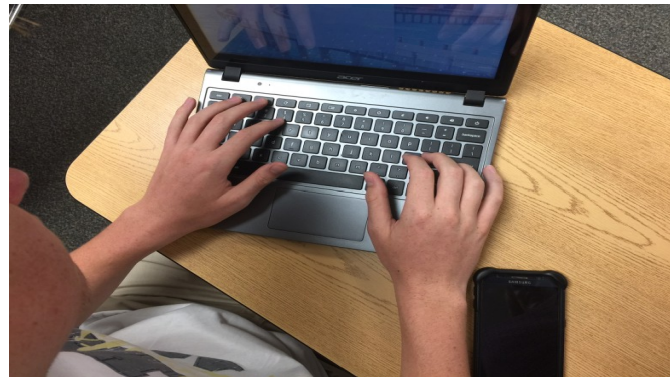Welcome to Classroom!
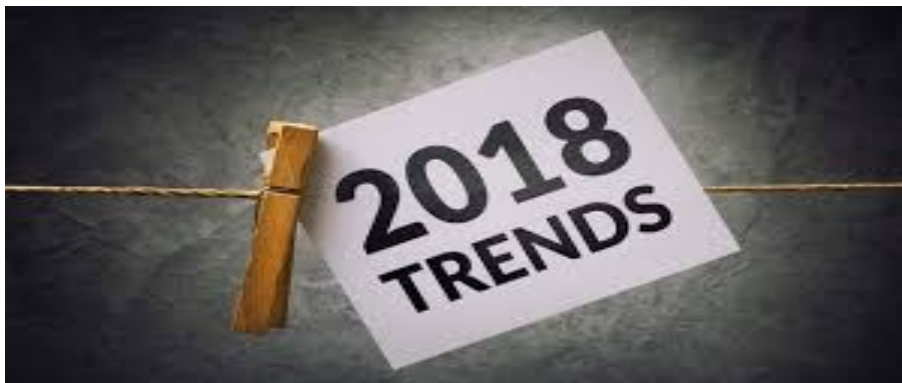
Education 17 million Chomebooks (2017)   2020 (80%)

Consumer Grade -   2018 More choice - More Power

Business- Security - Travel

Chromebooks in the Schools

Our high school district will have 23,000 Chromebooks for the 2018/2019 school year -- one each for the junior and senior High students. -
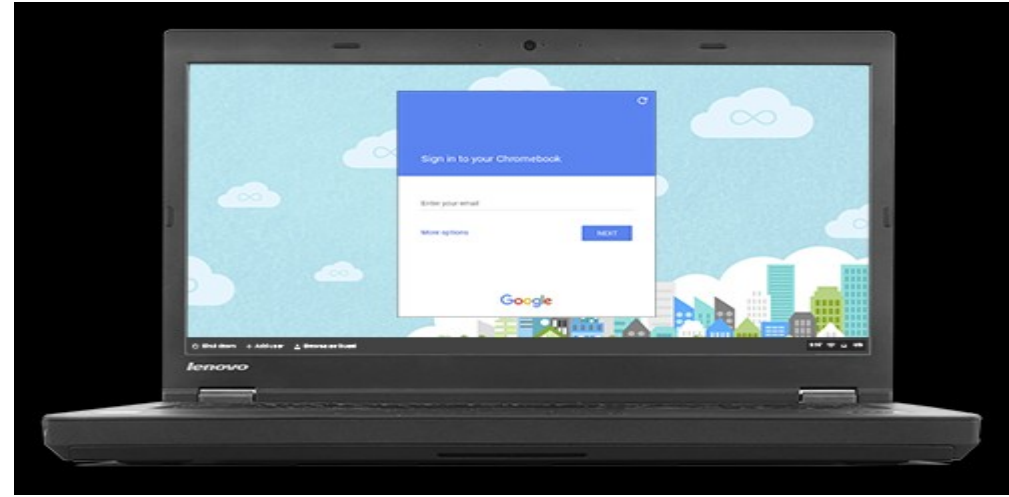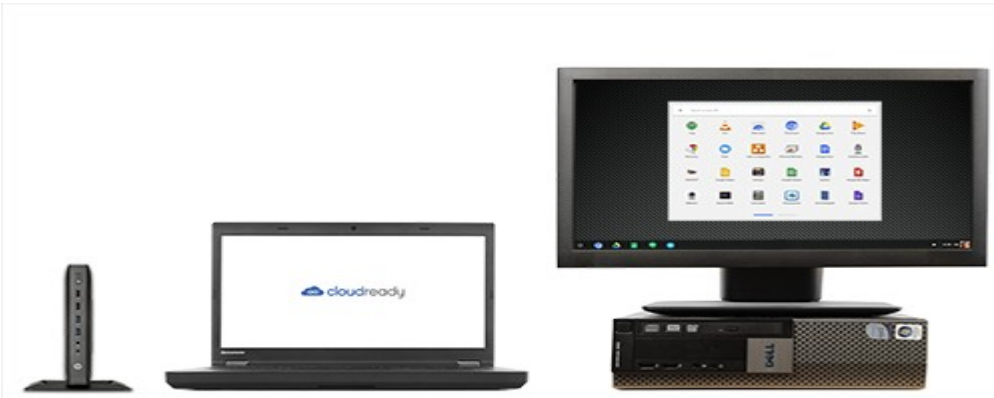
Judy Taylour

Lots of Horsepower
Very large
Uses lots of gas

Small,horsepower,gas

Convert your old PC to a Chromebook using Neverware's Cloud Ready Chromium OS.

Free for Personal Use

TPM Chip- Lockable Encrypted Memory
Two copies of Chrome OS running at the same time
4 seconds   Updates second copy

Picture of Chromebook

https://www.goog

Security

Traditional OS	Chrome OS

- Applications have permission same as user
- Can communicate with each other easily

- Web application have limited permission
- They are treated as untrusted apps and run in Encapsulated environment
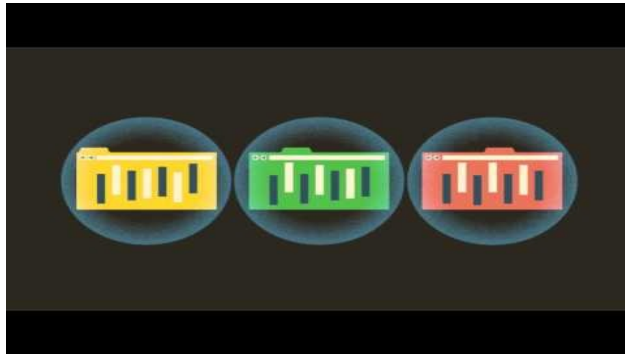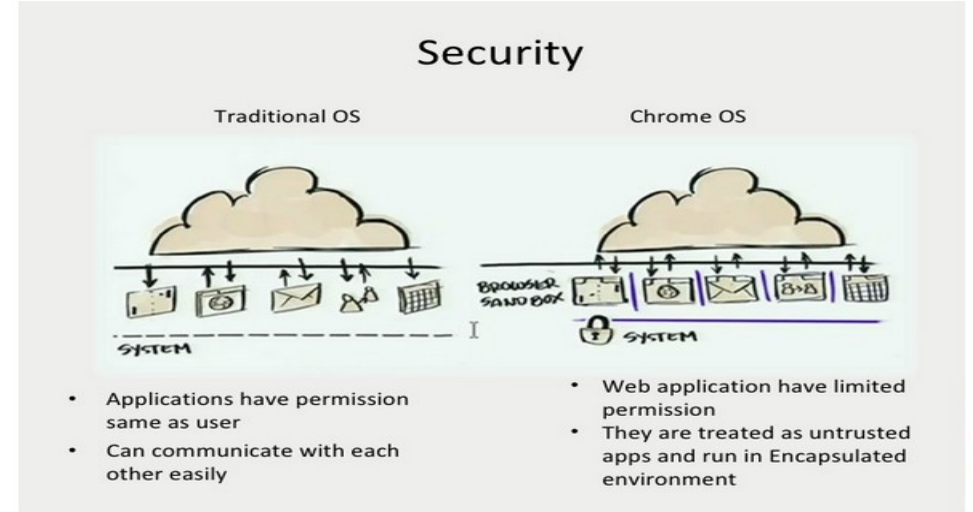
MAXIMUM SECURITY

Updates go to secondary copy

Security

- ✔ Automatic Updates

- ✔ Sandboxing-*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.*

- ✔ Verified Boot-. *Every time the Chromebook starts up, it does a self-check called "Verified Boot."*

- ✔ Data Encryption-*When using web apps on a Chromebook, all important data is stored safely in the cloud*

- ✔ 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 Lenovo N22 August 15/17 US $198(249)

Built strong for children
11.6 inch touch screen (NonFlip)1366x768 pixels
10hrs of battery life
Intel N3060 Dual-Core
16 GB SSD
4GB DDR3
HDMI
USB 3
SD Card Slot and audio jack
Android Apps

Price History | Sales Rank | Product Details

Lenovo Chromebook N22 11.6" Notebook, IPS Touchscreen, Intel N3060 Dual-Core, 16GB e-MMC SSD, 4GB DDR3, 802.11ac, Bluetooth, ChromeOS

http://camelcamelcamel.com/product/B01H5EFSJQ

$238.46

$195.00

$169.99
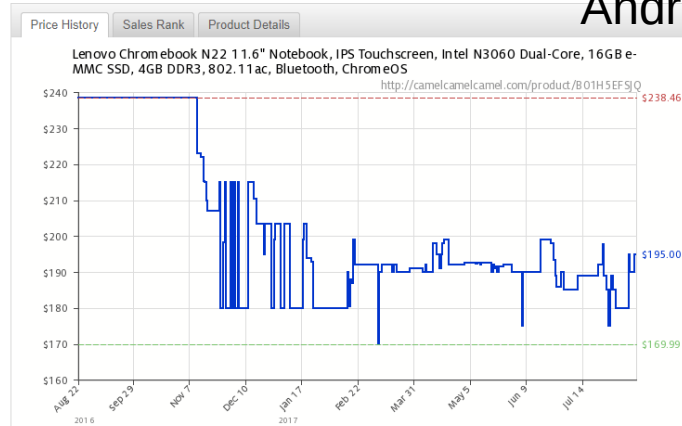
CHROMEBOOKS ARE INEXPENSIVE COMPUTERS

GOOD FOR CHECKING EMAIL AND SURFING

CHROMEBOOKS ONLY ARE ONLY WEB BROWSERS

Comparison August 2018 -   Amazon Prices US dollars(Retail)

 Samsung Chromebook Pro
Cost- $499(549)
Intel- Core M3
Screen 2400 X 1600 Nit 400
12.3 inches
Touch screen Pen

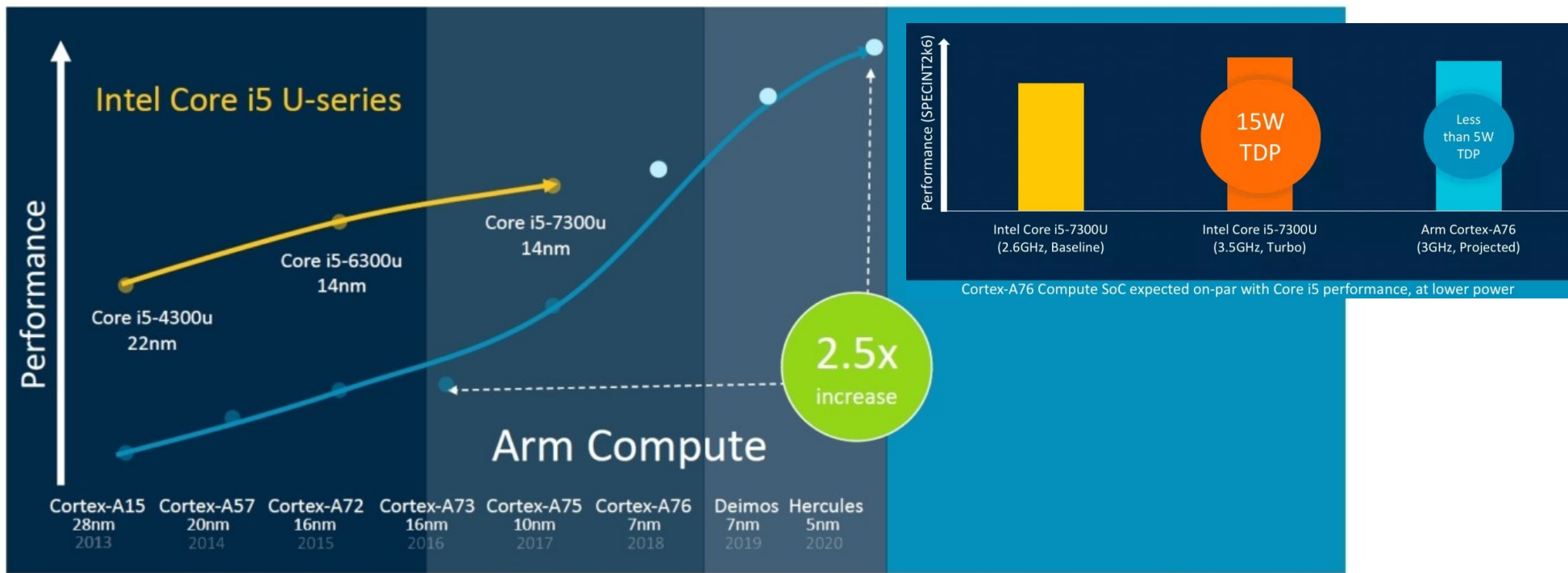
Samsung Chromebook Plus
Cost- $419(449)
V-2 $499 New Version
 (Dual ARM® Cortex®-A72
Screen 2400x1600   Nit 400
12.3 inches
Touchscreen Pen

Asus Chromebook Flip C302
Cost- $469(569)
Intel – Intel® Core™ M 6Y30 Processor,
Screen 1920x1080   Nit 300
12.5 inches
Excellent back lit keypad
Touchscreen

ARM VS INTEL

Path to Compute performance leadership with efficiency

Intel Core i5 U-series

Performance

- Core i5-7300u
  14nm
- Core i5-6300u
  14nm
- Core i5-4300u
  22nm

2.5x increase

Arm Compute

| Cortex-A15 28nm 2013 | Cortex-A57 20nm 2014 | Cortex-A72 16nm 2015 | Cortex-A73 16nm 2016 | Cortex-A75 10nm 2017 | Cortex-A76 7nm 2018 | Deimos 7nm 2019 | Hercules 5nm 2020 |

Performance (SPECINT2k6)

| Intel Core i5-7300U (2.6GHz, Baseline) | Intel Core i5-7300U (3.5GHz, Turbo) 15W TDP | Arm Cortex-A76 (3GHz, Projected) Less than 5W TDP |

Cortex-A76 Compute SoC expected on-par with Core i5 performance, at lower power

Single-core performance based on SPECINT2k6, Intel measured, Arm Compute estimated
Graph not to scale

Chromebook Plus V2 ($499)

Reviewed by Android Central

Solid Aluminum Build
USB 3.1 Port
Aspect Ratio 16X10 (3:2)
Pen

The wider screen makes the keyboard standard size

Intel instead of ARM
-Celeron 3965Y
    Two cores 1.3Ghz

Coming in around 14,000 on Octane 5000 high than plus

Camera Better 13 MP

Weight is heavier and bit thicker
Screen 1920×1200 vs. 2400×1600 in V1

Samsung Chromebook Pro V2

Not Available yet

Chromebook Pro Upgraded
Backlit Keyboard

Intel M3 Processor

New Version LTE enabled

Old Version $549

GOOGLE PIXELBOOK

7TH GENERATION INTEL PROCESSOR
8/16 GB RAM
128/256 + GB RAM
Starts at $999 US

Google
Pixelbook 2

| 7th Gen Intel® Core™ processor | All-day battery[1] | 8GB or 16GB RAM | Solid state drive (128GB, 256GB, or 512GB NVMe) | Charge for 15 minutes to get up to 2 hours of use[2] |

The 12.3-inch Google Pixelbook falls somewhere between the HP Spectre 13 and 12-inch MacBook.

The Pixelbook also has a 360-degree hinge and its touchscreen can fold into various modes including tablet, tent, and stand.

Pixelbook 3 Rumored for Google's October Hardware Event

Smaller Bexels - New processor?   Detachable Screen?

4K Screen   16:9 Aspect Ratio

Cellular LTE with Project Fi Support

HP Chromebook X2

Let's not forget, this is all wrapped up in a relatively easy-to-swallow price tag of $599. Even at a deeply discounted $750, the Pixelbook will find some serious competition from HP's new flagship.

Core M3 - $599
This model – Not Backlit
Battery only in screen – more to come
Competition to Microsoft Surface Go
Pixelbook Killer
More models to come
Excellent Reviews
Popular

Chrome OS™
Intel® Core™ M processor
Intel® HD Graphics 615
4 GB memory; 32 GB eMMC storage
12.3 " 2400 x 1600 SAME AS PIXELBOOK

Intel® Core™ m3-7Y30 (1 GHz base
frequency, up to 2.6 GHz with Intel®
Turbo Boost Technology, 4 MB cache,
2 cores)

HP Chromebook X2

Stylus in the Box

by *Robby Payne*

August 16-2018

"And the processor simply shocked me. It felt very fast and snappy, not making me miss my Pixelbook performance at all. Running a few benchmarks, I was able to get over 25,000 on Octane and 129 on Speedometer. For reference, the Pixelbook gets a bit over 27,000 on Octane and 126 on Speedometer. Yeah, this Core m3 is faster that the last-gen i5 in the Pixelbook."

"I was shocked by that score, but the real-world use actually aligns with these speeds. This thing is a performance beast!"

"I'd say buy it. You won't be disappointed!"

First Chromebook Tablet
Acer Tab 10

Bit Thicker than an Ipad
350 Nits
1536 X 2048 - Same as Ipad
Stereo Speakers
2Ghz RockChip- Same as Chromebook Plus
Front 2MP – Rear 5 Mp Camera
Stowable Pen
Educational Market
$320 US.. Staples

Home > Tablets & iPads > Tablets & iPads >
Acer Chromebook Tab 10 D651N D651N-K9WT Chromebook Tablet, 9.7", 4 GB LPDDR3, Rockchip RK33XX RK3399 2 GHz, 32 GB

Item #: IM13BU417 | Model #: NX.H0BAA.001

Acer Chromebook Tab 10 D651N D651N-K9WT Chromebook Tablet, 9.7", 4 GB LPDDR3, Rockchip RK33XX RK3399 2 GHz, 32 GB

★ ★ ★ ★ ★ No reviews yet   Add to List   Share:

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Special financing available

⦿ Delivered within 2-4 business days   **$339.99**

▲ Add a Protection Plan

☐ 2-yr SquareTrade Tablet/e-Reader Plan w/ $61.89 ea
Accidental Damage Protection

Qty: [1]   ADD TO CART

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Product Details

- The lavish 2 GHz processing speed and 4 GB memory lets you easily juggle
between social, professional and gaming apps
- 9.7" screen size and 2048 x 1536 resolution enable smooth visuals, easy
content reading, and overall a great user experience
- Hi-res 2 Megapixel front-facing camera to take wallpaper-like photos and
record videos with true colors
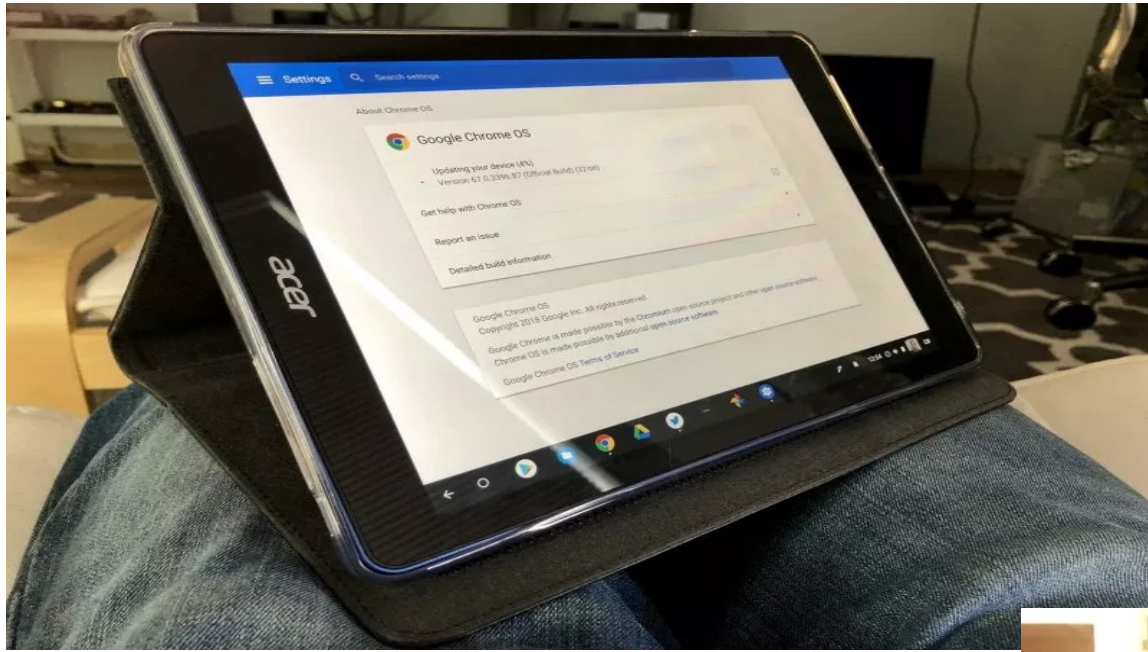
Acer Chromebook Tab 10 gets a native case and stand option for $39.99

Acer Chromebook Tab 10 gets a pair of USB keyboards from Belkin

Wired or USB

Some older Chromebooks will not have the Playstore

--- This means they can not run Android Apps

Chromebooks work best with a touch screen

NEW! **ctl.** Chromebox CBx1

CTL® Chromebox
Great for Education and Enterprise

ctl.
COMPUTE • TEACH • LEARN

PERFORMANCE (Chromebox)

PROCESSOR	MEMORY	GRAPHICS	STORAGE
Intel Celeron 3865U 1.8GHz	4GB DDR4	Intel HD610 Graphics	32GB SSD

OPERATING SYSTEM
Chrome OS

DESIGN

CHROMEBOX DIMENSIONS
5.83" (w) x 5.85" (d) x 1.62" (h)

CHROMEBOX WEIGHT
1.5 lb.

SECURITY
Kensington lock, meets Google's Chromebox security requirement

CONNECTIVITY

FRONT I/O PORTS
• 1x Audio Jack
• 2x USB 3.0

CARD READER
SD

REAR I/O PORTS
• Barrel Jack (Power)
• 1x USB-C
• 1x HDMI
• 2x USB 2.0
• 1x USB 3.0
• 1x Ethernet - RJ45

WIRELESS
802.11 AC, Bluetooth 4.2

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CTL

CTL Chromebox CBX1 Chromebox - Intel Celeron 3865U 1.80 GHz - 4 GB DDR4 SDRAM - 32 GB SSD - Chrome OS - Mini PC

Be the first to review this item

Price: **$228.14** & FREE Shipping

Get $70 off instantly: Pay $158.14 upon approval for the Amazon Prime Rewards Visa Card.

Note: Not eligible for Amazon Prime.

- Processor Manufacturer: Intel
- Processor Type: Celeron
- Processor Model: 3865U
- Processor Speed: 1.80 GHz
- Standard Memory: 4 GB
- › See more product details

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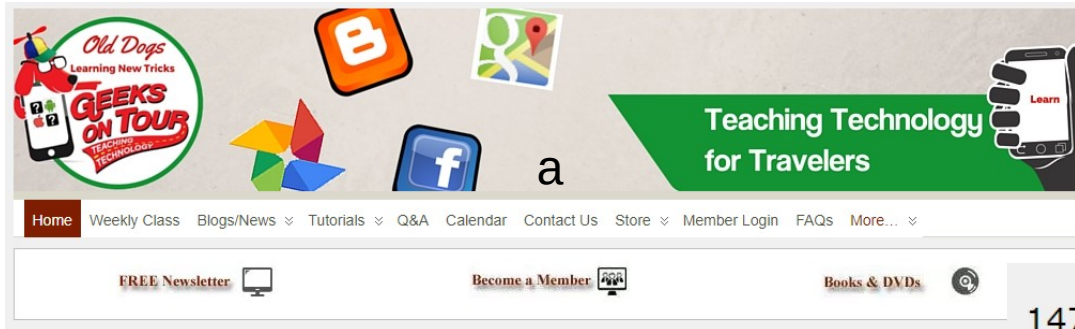
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Get special offers just by asking Alexa. Learn more

Video Editing on Chromebook

GoPro App
Tell your story in one tap with QuikStories.
Download on the App Store   GET IT ON Google Play

Old Dogs Learning New Tricks
GEEKS ON TOUR
Teaching Technology for Travelers
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Jim and Chris Guld

147. Video Editing and Making Movies on Chromebook with Quik

3 Star, What Does This Button Do   Comments Off

Show Notes for Members below Everyone can view all the episodes for free. Just click on the play button above. A great benefit of membership is access to the extensive show-notes Chris writes up every week. Read them online and follow links directly to the parts you're interested in. We recommend you print them out [Click for the rest ...]

Acer – 2 Models   13 & Spin 13

Both devices

Gorilla Glass Trackpad
13.5 IPS Touch
2256 X 1504   3:2 aspect ratio
===
Spin 13 360 hinge and comes with
Wacom EMR Stylus Pen for
handwriting,notes and drawing

Chrome Unboxed – Sept 2018

The Chromebook Spin 13 is the more powerful of the two when it
comes to processors. You'll get a choice between an 8th-gen Intel
Core i5-8250U or Core i3-8130U paired with up to 16 GB of
memory and up to 128 GB of storage capacity.

Processor options for the Chromebook 13 are the same Intel
Core i3-8130U, Pentium 4415U or Celeron 3865U,

RELEASE DATE SEPTEMBER-2018

8th Generation Core i3-8130U processor, 8GB LPDDR3 memory and 64GB eMMC storage for $749.99 USD and $1,029.99 CAD.

8th Generation Intel Core i5-8250U processor, 8GB LPDDR3 memory and 64GB eMMC storage for $849.99 USD and $1,149.99 CAD.

8th Generation Intel Core i5-8250U processor, 16GB LPDDR3 memory and 128GB eMMC storage for $949.99 USD and $1,299.99 CAD.

13.5″ 3:2 Full HD+ touch display with 2256×1504 resolution (3.3 million pixels)
Wacom stylus garaged in the deck of the Chromebook
Corning® Gorilla® Glass touchpad
Sandblasted matte all-aluminum finish
2 x USB-C 3.1
1 x USB-A
MicroSD
Backlit keyboard

Expanding your Chromebook's storage

If you want to expand your Chromebook's storage, you can use an SD or microSD card

Google's new 'Grab and Go' project helps business loan Chromebooks to their employees

Chromebooks have found their place in education and a number of larger enterprise companies are also getting on board with the idea of a centrally managed device that mostly focuses on the browser. That's maybe no surprise, given that both schools and enterprises are pretty much looking for the same thing from these devices.

Lenovo's Chromebook 500E
Launched Feb-2018
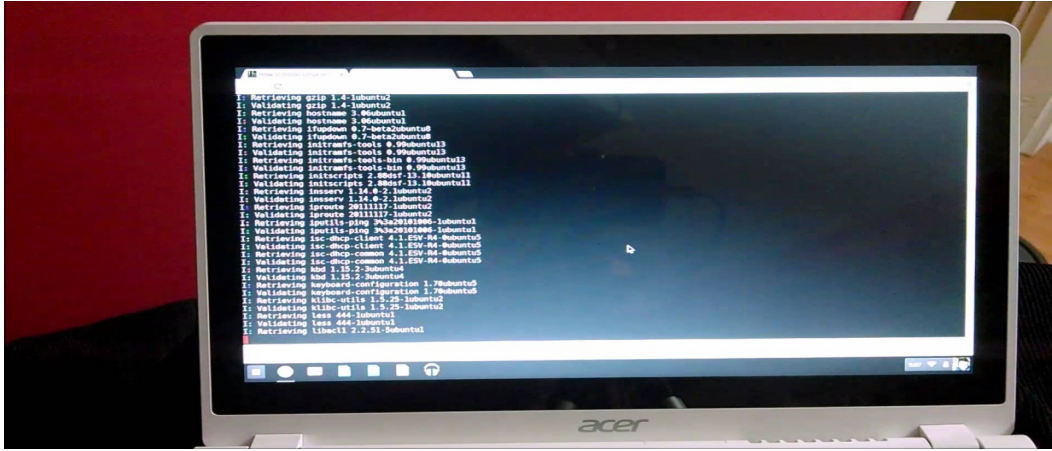Cost Amazon- Around $300-
$450

Two Models
   4- GB/32 GB   Around $300
   8- GB/64 GB   Around $420

11.6 - 2 in one - 360 touch screen
Apollo Lake N3450 processor
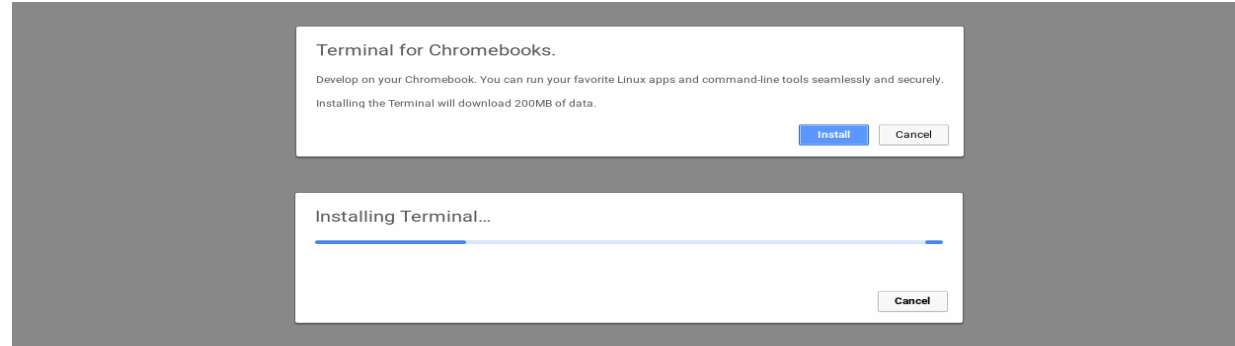Stylus Included
Screen Resolution of 1336 x 768

How to add Linux to your Chromebook

Project Crostini
Stable Chrome 69

According to Google, you will soon be able to run Linux inside a virtual machine (VM) that was designed from scratch for Chromebooks

Always able to use Linux Apps on a Chromebook

Required less secure Developers Mode
Required 3rd Party App "CRUTON "
Lacked sandboxing

How Project Crostini works to run Linux apps on Chrome OS

Project Crostini

How to run Linux on Pixel book

1. Check updates- reboot Dev Channel
2. Go to chrome://settings
3. Scroll down to Linux Apps
4. Turn on and follow prompts
5. At the end a new Terminal Window to a shell within the container

The New York Linux User Group recently had a pair of special guests: Googlers David Reveman and Zach Reizner

https://www.youtube.com/watch?time_continue=4159&v=WwrXqDERFm8

Qu

Chromebooks for 2018
Resistance is futile

SilvercomCTC Computer Club
Silveridge Resort – Mesa Az
Program Director

69janeplace@gmail.com

apcug An International Association of Technology & Computer User Groups