

Containers in ChromeOS (in 5min)

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Wat ?!?!?!?

Containers != VM's

VM's: Virtual Machines (virtualise hardware)

Containers: Resource management in the OS Kernel (cgroups on Linux)

"We can rebuild him; we have the technology..."

- Already have a **Terminal** in ChromeOS:
But very minimal, locked-down shell
- Already have **Crouton**: BUT needs Dev mode and uses chroot (open src)
- Already have **ARC++**: Android in a Container on ChromeOS (proprietary)

Codenames:

Crosvm, Concierge, Crostini

- Will download/install OTA
- Containers will install as Chrome Extensions and run inside VMs (for extra security)

This time it's OSS all the way down...

crosvm - The Chrome OS Virtual Machine Monitor

This component, known as crosvm, runs untrusted operating systems along with virtualized devices. No actual hardware is emulated. This only runs VMs through the Linux's KVM interface. What makes crosvm unique is a focus on safety within the programming language and a sandbox around the virtual devices to protect the kernel from attack in case of an exploit in the devices.

<https://chromium.googlesource.com/chromiumos/platform/crosvm/+/master/README.md>

Fun Fact:

crosvm is written in **Rust** (lang from Mozilla)



Terminal for Chromebook

Develop on your Chromebook. You can run your favorite native apps and command-line tools seamlessly and securely.

Installing the Terminal will download 200 MB of data.

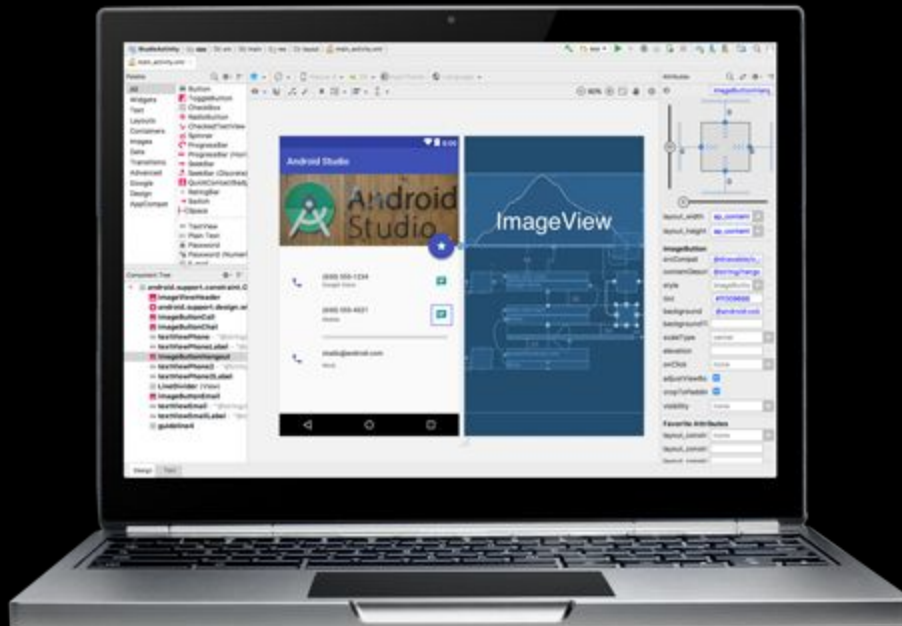
Install

Cancel

<https://bugs.chromium.org/p/chromium/issues/detail?id=813699>

Are we there yet?

- In M66 (Stable Channel: **April 17**)
- BUT Only on “**Eve**” (aka **Pixelbook**)
- BUT Chrome releases on specific devices don't always match Chrome Browser release dates
- All things point to Announcement at **I/O...**



Thank You

Questions?

<http://manichord.com>

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But Wait there's More!

https://www.reddit.com/r/chromeos/comments/86r2yh/sommelier_enables_x11_apps_to_display_in_wayland/

