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2025

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TurboCharge your C64 with C64 OS  
Intro - Philosophy - Up To Date

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OpCoders Inc.

**TurboCharge your C64 with C64 OS**

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**Welcome to ReAnimate  
Summer School 2026.**

**Thank you for the invitation.**

**Who am I: Greg Nacu  
My Focus: Commodore 8-bit/C64**

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### Agenda

- \* Introducing Myself
- \* The Philosophy of C64 OS
- \* C64 OS Version History up to now
- \* Live Demo and Q&A Time

## Introducing Myself

A quick intro; how I got where I am.

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\* 5Y0, 1986 -> My first VIC-20

\* 9Y0, 1990 -> My first C64

\* 1990-2000 -> C64 pumped by CMD

\* 2000-2008 -> WINGs & SuperCPU

\* 2008-2016 -> Left the Scene

\* 2017-Now -> Back to the C64

## Introducing Myself

A quick intro; how I got where I am.

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- \* Goal: Network-based Applications
- \* C64 is a very primitive machine
- \* Needs an OS to do advanced work
- \* In 2017, started learning 6502
- \* Feels Fast and Easy to Use
- \* In 2022, C64 OS version 1.0

## The Philosophy of C64 OS

What are the C64 OS design goals?

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- \* Minimal hardware requirements
- \* Maximum expansion compatibility
- \* Mass storage is abundant and cheap
- \* 1 Requirement: Mass Storage Device
- \* Permits design w/ modern structure
- \* Modular: 1000+ files, 50+ subdirs

## The Philosophy of C64 OS

What are the C64 OS design goals?

- \* Core System: 10 KERNAL modules
- \* Device Drivers, different kinds
- \* Relocatable Shared Libraries
- \* Object-Oriented UI Toolkit
- \* Datatype Loaders and Savers
- \* Charsets, icons, help, settings...

## The Philosophy of C64 OS

What are the C64 OS design goals?

- \* Applications are resource bundles
- \* Utilities run concurrently w/ Apps
- \* No Multitasking; Fast App Switching
- \* Foreground App has complete control
- \* FAS, Msg Passing, and Clipboard
- \* Benefits w/out the complications

## History of C64 OS up to today

### \* Version 1.0: 2022

Core system. Mouse-driven UI, with fast hierarchical pulldown menus.

Move between Apps, open and save documents. Clipboard, Drvrs, Libs.

### \* Tentpole Application

File Manager. Recursive move/copy between different device types. Assign file types to open in Apps. Flexible, easy-to-use interface.

App Launcher, desktop-like env. Other sample Apps, and many useful Utilities.

## History of C64 OS up to today

### \* Version 1.04: Mid 2023

New multi-media features. SID Player, Animations, and Graphics.

### \* Version 1.05: Late 2023

Support For Fast App Switching, and managing expanded memory.

### \* Version 1.06: Early 2024

Support For Hidden Files, and multi-line text editing class. Utilities that make use of it.

## History of C64 OS up to today

### \* Version 1.07: Early 2025

Finally C64 OS gains networking.  
Robust networking stack, drivers,  
and a standardized socket API.

Feature Application: Wikipedia.  
Search field, table of contents,  
formatted text with hyperlinks.

### \* Realization of a Daydream

It took 8 years for everything to  
come together. Dream -> Reality.

Experience of Wikipedia App is  
much superior to using a BBS.

## History of C64 OS up to today

### \* Version 1.08: Mid 2025

Improved networking speed/stability

### \* Networking Apps

- World Explorer  
Webcams from around the globe.
- Image Search  
Fetch graphics Google Image.  
Integration with Google Maps.  
Computer Vision: 8-bit Camera.
- READYChat  
Instant messenger w/ a twist.  
Internet powered assistant.

Let's Demo This Bad Boy!

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[www.c64os.com](http://www.c64os.com)

Thank you