

you are a real programmer if you do:

all of this

- *Build your own firmware/bootloader

- *Build your own FPGA/ASIC

- *Build your own sound library/engine/driver

- *Build your own GUI Toolkit/graphics library

- *Build your own font (vector and bitmap)

- *Build your own character encoding standard (à la ASCII, Unicode, etc.)

- *Build your own MMO

- *Build your own protocols

- *Build your own mouse

- *Build your own keyboard (final test of computation theory)

- *Build your own mail client and server

- *Build your own VoIP client (à la Discord, Skype, etc.)

- *Build your own instant messenger (à la IRC, AOL, etc.)

- *Build your own markup/typesetting language

- *Build your own compiler, interpreter and assembler

- *Build your own machine code & microcode

- *Build your own filesystem

- *Build your own softmodem

- *Build your own SDR

<https://www.youtube.com/watch?v=G8BIYIsh-4I>

- *Build your own BBS

- *Build your own painting application/photo editor (YEP, with matrix at low level)

- *Build your own cryptography (RSA, Caesar and more)

- *Build your own compression algorithms (yep)

<https://www.youtube.com/watch?v=NjhJJYHpYsg>

- *Build your own webcam and webcam client

- *Build your own virtual voice assistant (i do with chatgpt integration)
- *Build your own girlfriend ;)
- * 3D Renderer (ray tracing and ray casting)
- * Augmented Reality (i read a ariticle with a card)
- * BitTorrent Client (i know)
- * Blockchain / Cryptocurrency (yes)
- * Bot (telegram bot)
- * Command-Line Tool (yes)
- * Database
- * Docker (i know how)
- * Emulator / Virtual Machine (yes, but)
- * Front-end Framework / Library
- * Game (hangman)
- * Git (i can do it but like a graph)
- * Network Stack
- * Neural Network (yep)
- * Operating System
- * Physics Engine
- * Programming Language (a lisp)
- * Regex Engine
- * Search Engine
- * Shell (yep)
- * Template Engine (is so easy)
- * Text Editor (yep)
- * Visual Recognition System
- * Voxel Engine (yep)
- * Web Browser (i undestend)
- * Web Server

reference:

<https://github.com/codecrafters-io/build-your-own-x/blob/master/README.md>

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