

SLS > _

YREA SLS

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Snow College

SE 3250

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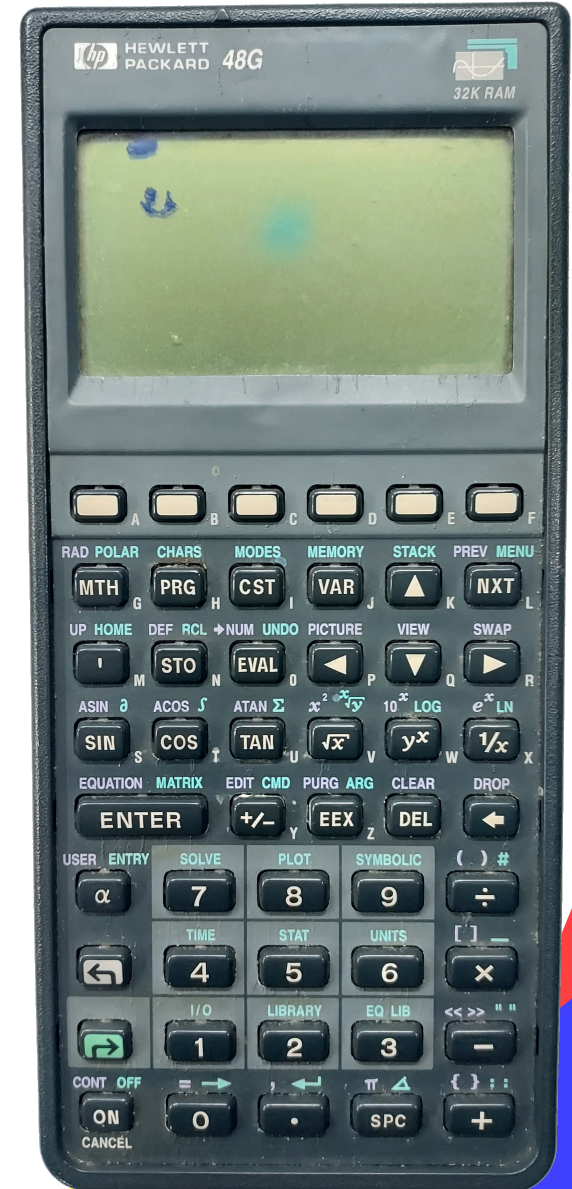
YREA

RPL

HP Reverse Polish Lisp

- Based on LISP and Forth
- Stack-oriented language with post-fix notation
- Created by HP for their calculators

YREA



Project

YREA SLS

- Stack-oriented language with post-fix notation
- C inspired Syntax
- Can run on an embedded system

The logo consists of a black circle with the word "YREA" in white, bold, sans-serif capital letters. To the right of the circle are three overlapping, semi-circular arcs in yellow, red, and blue, creating a sense of motion or a stylized 'E'.

YREA

Language

The C Language

- Systems Programming
- Used for Python and PHP interpreters

Excellent fit for my project!

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Language

The C Language

- Manual memory management is difficult to get right.
- C development in a Linux environment was fun and rewarding.
- In the end I had a running program on a RP2040.

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Port 1

Rust

- Systems Programming (Again)
- Included build system
- Memory safe with the borrow checker

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Port 1

Rust

- Unlike previous projects in Rust, I didn't fight the borrow checker this time.
- I added exporting and importing the interpreter state in the REPL.

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Port 2

Python

- My favorite programming language (maybe C is a close second now)
- This port was very easy for me to do.
- I did add a calculator app as an alternative to the REPL or file execution.

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The End

You may clap now

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