

I Built a Programming Language!

Introducing **Beacon (BPL)**
My Personal Project

Why did I do this?

⚠ The Problem

Computers usually require complex, scary code just to understand simple instructions.

This creates a barrier for many people.

💡 The Solution

I built a **refined language** that lets you talk to the computer in simple, readable English sentences.

Mission: Making technology accessible.

Coding in English

</> Old Scary Code

Traditional languages use cryptic symbols.

```
for (int i=0; i<5; i++) {  
    printf("Hello");  
}
```

Lots of brackets {} and semicolons ;.

⚡ Beacon Code

Beacon uses natural English words.

```
traverse i from 1 to 5:  
    show "Hello"  
done
```

Uses traverse, pack, and show.

How it Works: Under the Hood



1. Beacon Code

You write simple, English-like instructions.



2. The Compiler

I wrote this "brain" from scratch. It translates your words into machine code.



3. Execution

The computer runs the translated code instantly.



This was the hardest part to build!

A Real Example

```
// A simple loop in Beacon

traverse i from 1 to 5:
    show "Hello Family!"
done
```

Readability First

- ✓ **No cryptic symbols:** Notice the lack of braces and semicolons.
- ✓ **Reads like a sentence:** "Traverse from 1 to 5" is intuitive.
- ✓ **Clean and friendly:** Designed to look less intimidating than C or Java.



It's Live! Version 2.0.0

I just released the latest version today. It's live on the internet!

adividan1012.github.io/Beacon-Labs/

Thanks for always supporting my projects! ❤️