# Flame Language - Official Manual

## Introduction

Flame is a modern programming language designed by Daniel Ricardo Maranhao Santana for clarity, expressiveness, and automation in mission-critical geospatial, environmental, and predictive analytics workflows.

Its syntax is inspired by Python but simplified for scripting and automation contexts.

## Core Syntax

- Variables: let x = 10
- Print: print("Hello", x)
- Loop: for i in 1..5:
    print(i)
- Conditional: if x > 5:
    print("x is large")
- Function: def double(v):
    return v * 2

## Features

- Clean, readable syntax
- Built-in support for automation and data workflows
- Inspired by Python, optimized for field operations
- Easy to embed or extend

## Example Program

```
# Calculate the square of numbers
def square(n):
    return n * n

for i in 1..5:
    print("Square of", i, "is", square(i))
```

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## Credits

Created by Daniel Ricardo Maranhao Santana

Institution: Anternative 3

Support: Wareness