JV Operator (JVO) Programming Language

# Introduction

JVO (JV Operator) is a custom-designed, high-level programming language with a unique syntax and modular system. It's built for readability, creativity, security awareness, and cross-platform capabilities including shapes, animations, sound, and even Python/HTML/CSS integration.

# Core Syntax

a\_5\*

b\_@"hello"\*

write(a + b);

# Variable System

- a\_5\* → Assigns number 5 to variable a

- name\_@"John"\* → Assigns text to variable

- Types can be checked using:

write({type=\_a\_});

write({group=\_a\_}); // Positive, Negative, Endless

# Control Structures

/if (a = 5):

write("Correct");

/ifMore():

write("Alternative");

/else():

write("Wrong");

# Loops

a\_1\*

//repeat(+1 {until} $Get ∆Inf(/Break\_loop = if stop(false))):

write(a);

# String Modifiers

A String Modifiers (entire word): uppercase, lowercase, reverse

Z String Modifiers (one letter): capitalise

M String Modifiers (number effects)

write(a=[uppercase]);

# Security & Anti-Hacking

Hack Detection:

/if (#hackMod = effected):

@XFunc[locate]from(/come)

/ifMore():

write(\*email(#hackMod[user])\*);

Anti-Hack Protocol:

%O def \_input\_

#recovSYS(if #hackMod=effected)

Des(#hackMod)

Report Hack:

%JVO def IO~

#mailBox(@func\_send(alert-message:"my computer got hacked") -(alert)-> [national security]);

# Shape & Animation System

#Var(@shape{20cm,20cm}col\_red);

#ANIM(@XFunc[@shape(animation: goto{up\*4, right\*5,Dur=(2S.per.Sec)})]);

# Sound Functions

Add Recorded Sound:

#SoundREC(@sound\_recorded["my\_voice"]);

Add Random Sound:

#SoundRAN("beep.wav");

# Interoperability

Link Python:

define{/python3}:[/link\_main.py];

Link HTML:

#Pkg.ins\_HTML(/\*);

define{/html}:[/link\_index.html];

# Special Keyword Ranks

# → General Rank

#/ → Z General Rank (higher than general)

%J, %V, %O → High General Rank

$ → Exo Rank

@ → IL Rank

# Project Finalization

~%CodeBar|(COMP)

This ensures proper execution.

# Version Info

v1.0 Features: Shapes, variables, basic loops, A/Z/M modifiers, anti-hack, HTML/CSS/Python integration.

v2.0 Preview:

- New loop modifiers

- If timer

- Inter-loop keywords (/\*when, /\*IntIf)

- Package expansion

- Auto-rebuild via @interfunc