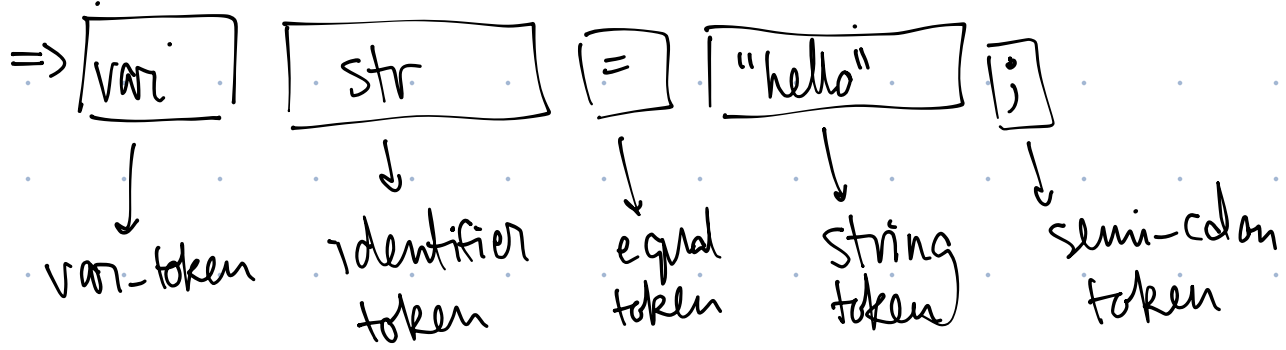


§ Interpreting Pipeline



Compiling → pratt-parser:

VM → chunk.code: OP_CONSTANT, OP_PRINT

└→ Global Hashmap: NULL

└→ stack: "hello"

└→ Objects Hashmap "hello"

└→ chunk.constant Array: "hello"

Interpreting Pipeline for the string "hello"

1 → allocates string object or interns to existing object.

↓

2 - Gets written to object hashmap in vm to keep track

- ↓
- 3 - Gets written to chunk's constant array (let's say index "i")
 - ↓
 - 4 - chunk's bytecode `OP_CONSTANT, "i"` to keep track of index
 - ↓
 - 5 - When VM runs, `OP_CONSTANT` retrieves "hello" from constant array to push it onto the stack
 - ↓
 - 6 - when `OP_DEFINE_GLOBAL` is called, variable name stored in the array is used to set on `VM.global hashmap`

Overall,

⇒ VM runs instructions on `chunk.code`.

⇒ 1. constants array are constants that appear in code

2. pushed onto the stack with `OP_CONSTANT` and are pushed/popped to be manipulated with other operations

⇒ variables are set on `VM.global`

N.B: variable names never appear on the stack just called from the constant array