

🚩 Current Skill Variables and identifiers

What is a variable?

- Variables are used to associate a name with a value, which can change during the algorithm .
- In other words, a variable is a storage location for a single type of data, which can be used to store a value and used to retrieve a value.
- Variable declaration :

Variable declaration can be done in two ways :

1. Name_of_variable : type
2. Name_of_variable, name_of_other_varibale : type

```
age : integer // declare a variable with the name "age" of type "integer"
a,b : boolean // declare two variables with the name "a" and "b" of type "boolean"
```

To declare a constant (A variable that will not change its value throughout the algorithm) we use the keyword CONST instead of VAR

Identifier



- Variable name or identifier has precise rules for creation.
- Luckily, the same rules for identifiers apply to anything you are free to name, including variables, program name, procedures, functions and structures (we will see all of them in this course).
- There are only three rules to remember for legal identifiers:
 1. The name must begin with a letter (uppercase or lowercase) or the underscore symbol '_'.
 2. Subsequent characters may also be numbers.
 3. You cannot use the same name as an algorithm reserved word, such as var, begin ,end...



The following examples are legal:

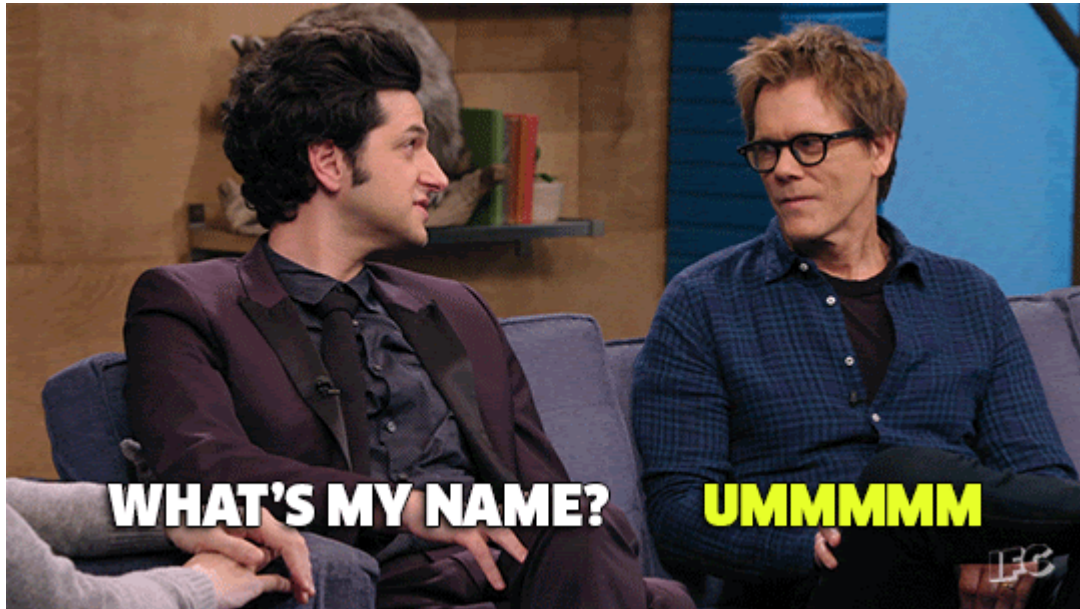
- okidentifier
- OK2Identifier
- _alsoOK1d3ntifi3r



- `__SStillOkbutKnotsonice`

These examples are not legal:

- `3DPointClass` // identifiers cannot begin with a number
- `hollywood@vine` // `@` is not a letter, digit or `_`
- `*_coffee` // `*` is not a letter, digit or `_`
- `var` // `var` is a reserved word



Assignment :

Assignment a value to a variable can be done with four way :



- `Name_of_variable := value`
- `Name_of_variable := name_of_other_varibale`
- `Name_of_variable := expression`
- `Name_of_variable := name_of_function`

```
age := 28      // assign (i.e. store) the value 28 in the variable "age"
b := false    // assign (i.e. store) the value false in the variable "b"
a := b        // assign (i.e. store) the value of "b" (false) in the variable "a"
```



[< Previous](#)

[next >](#)



