



TITANIUM PROGRAMMING LANGUAGE CHEATSHEET

- CONSTANTS AND VARIABLES

Constants are defined with the **DEF** keyword and can't be changed later on. Variables are defined with the **DECL** keyword.

```
DEF name = "Matheus"  
DECL age = 17
```

Titanium currently supports the following data types: **STRING**, **BOOLEAN** and **NUMBER**. Strings should be encapsulated between `""` and boolean values can be either **TRUE** or **FALSE** (though two new keywords, **YES** and **NO** will be added soon). Titanium also supports positive, negative, integer, float and double numbers.

- MATH AND LOGIC EXPRESSIONS

You can assign math expressions such as `2 + 2` or `9 % 2` to variables and constants. You can also pass them as arguments to the print function to get their result printed to the screen. You can also evaluate logic expressions such as `"a" = "b"` or `9 ≠ 10`. They will return either **TRUE** or **FALSE**.

```
print(9 < 20)  
print(2 + 2)
```

- THE TERNARY OPERATOR

Titanium also supports the ternary operator. You can assign it to either variables or constants.

```
DEF x = 10  
DEF y = 9  
DEF result = x < y ? TRUE : FALSE
```

- BUILT-IN FUNCTIONS

print() - outputs something to the console. It accepts variables, constants and math and logic expressions as its parameter.

get() - it asks the user for input. Its argument is the variable where the data should be stored.

clear() - it clears the console

random() - it generates a random number. It takes three parameters: the minimum value, the maximum value and a boolean (if **TRUE**, then it'll round the number to integer, otherwise it'll return it as a double)

- ENDING THE EXECUTION OF THE PROGRAM!

You can end the execution of a Titanium program in two ways: by using the **EXIT** keyword or by using **RET** followed by the return value, which should be a number, a math expression, a string or a boolean value.

TRY TITANIUM OUT!!!

You can see how Titanium works by going to its playground here.
You can also download its source code right here.