

# Manners

Uma linguagem textual e educada em inglês

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# Descrição

A ideia da linguagem era fazer uma linguagem para ensinar as pessoas a serem devidamente educadas com o computador, deste modo é possível aprender boas maneiras e programação ao mesmo tempo. Além disso a linguagem por ser muito textual, pode ser boa para iniciantes que precisam deixar seu código mais claro possível

Como usar a linguagem

# Variáveis

```
please store flag as boolean  
please change the value of flag to false
```

Equivalente em Python:

```
flag = False
```

# Loop

```
could you please do {  
    print flag  
    please change the value of flag to flag+1  
} while the following condition is true (flag < a)?
```

Equivalente em Python:

```
while flag < a:  
    print(flag)  
    flag +=1
```

# Condicionais

```
please do this {  
    please change the value of flag to true  
} if the following condition is true (n = 1)  
else{}
```

Equivalente em Python:

```
if n == 1:  
    flag = True
```

# Funções que não retornam

```
computer, the void called printplusone will receive (a as  
integer), whenever I call it, please do {  
    print a+1  
}
```

Equivalente em Python:

```
def printplusone(a):  
    print(a+1)
```

# Funções que retornam

```
computer, the function called maior will plusone (a as  
integer, b as integer) and return integer, whenever I call  
it, please do {  
    plusone = a + 1  
}
```

Equivalente em Python:

```
def plusone(a):  
    return a+1
```



# EBNF

```
Program = "computer", ",", "the", SubDec|FuncDec;

SubDec = "void", "called", "identifier", "will", "receive", "(", { | ("identifier", as, Type)}, ")", ",", "whenever", "I",
"call", "it", "please", "do", "{", { | ( Statement, "\n")}, "}" ;

FuncDec = "function", "called", "identifier", "will", "receive", "(", { | ("identifier", as, Type)}, ")", "and", "return",
Type, ",", "whenever", "I", "call", "it", "please", "do", "{", { | ( Statement, "\n")}, "}" ;

RelExpression = Expression, {"=" | ">" | "<"}, Expression;

Expression = Term, {"+" | "-" | "or"}, Term | ;

Term = Factor, {"*" | "/" | "and"}, Factor | ;

Factor = "number" | {"boolean" | ("identifier",{ | {"("({ | RelExpression, { | ", "})})}) | {"+" | "-" | "not"}, Factor} | "(",
RelExpression, ")" | "input";

Statement = |("please", "change", "the", "value", "of", "identifier", "to", RelExpression ) | ("please", "print", RelExpression)
| ("please", "store", "identifier", "as", Type) | "please", "do", "this", "{", { | (Statement, "\n"), "}", "if", "the",
"following", "condition", "is", "true" "(", RelExpression, ")", { | ("else", "{", { | (Statement, "\n")}, "}") | ("please",
"call", "identifier", "(", { | {RelExpression, { | ", "}} ) | ("could", "you", "please", "do", "this", "{", { | (Statement, "\n"), "}",
"while", "the", "following", "condition", "is", "true", "{", RelExpression, "}", "?")) ;

Type = "integer"|"boolean"
```

# Observações

Apesar dos exemplos estarem ligados ao Python, a linguagem deve possuir um void chamado main, como feito nos programas escritos em C.

```
computer, the void called main will receive (),  
whenever I call it, please do {  
    please print fibonacci(9)  
    please call countdown(8)  
}
```

## Exemplo

```
computer, the function called factorial will receive (n as integer) and return
integer, whenever I call it, please do {
    please do this {
        please change the value of factorial to n
    } if the following condition is true (n = 1)
else{
    please change the value of factorial to n*factorial(n-1)
}
}
```

```
computer, the void called main will receive (), whenever I call it, please do {
    please print factorial(3)
}
```

output: 6