

VisualNeo Web

Variables - Simple

```
SetVar [aCountry] "France"
SetVar [aNumber] 100+5*3
SetVar [myVar] "1+1" ❖ 2
SetVar [myVar] "1+1" ❖ 1+1
SetVar [myVar] "+=[aVar]"
SetVar [res] [myArr([idx])]
```

```
DeleteVar [myVar]
IsVarEmpty [myVar] [res]
TypeOf [myVar] [res]
SwapVars [myVar1] [myVar2]
Watch [maVar] "mySubRoutine"
CancelWatch [myVar]
TextToClipboard "A text"
ClipboardToVar [myVar]
```

Variables - Composed

```
SetCompVar [cars[index]] "Kia"
GetCompVar [res] [cars[index]]

CreateArray [myArr] 10, 20, 30
CreateArray [myArr] "red,blue,rose"
ArrayAddItem [myArr] "white"
CreateEmptyArray [myArr]
SetVar [myArr (0)] "begin"
ArrayLen [myArr] [res]
ArrayDelItem [myArr] 3
ArrayAlphaSort [myArr] ❖ 0,a
ArrayNumSort [myArr]
ArrayReverse [myArr] [res]
ArrayShuffle [myArr] [res]
ArrayCombine [arr1] [arr2] [res]
ArrayCopy [arr] [start] [cnt] [res]
ArraySearch [myArr] "red" [res]
```

JSON

```
CreateEmptyObject [obj]
SetVar [obj(nom)] "Patrik"
LoadJSON "https://xyz" [res]
LoadAsyncJSON "https://xx" "prog"
ParseJSON "{ 'n':Liz, 'a':33 }" [res]
StringifyJSON [myObj] [res]
CsvToJson [myCsv] ";," [myJson]
```

Math

```
Math "([nbr]+10)/100" 2 [res]
❖ 2=decimale places
+ - * / mod ^ ( )
Sigma(1,100,res) → 5050
Pi(1,10,res) → 3628800
pi → 3.14 e → 2.71
4C2 → 6 (comb) 4P2 → 12 (perm)
4! → 24
log 1000 → 3 ln 2 → 0.3010
pow(2,3) → 8 root 4 → 2
sin cos tan asin acos atan
sinh cosh tanh asinh acosh atanh
```

```
Random 3 [res] ❖ 0 1 2 3
RandomEx 1 3 [res] ❖ 1 2 3
SetVar [txt] "13 pigs"
ToNumber [txt] [res] ❖ 13
NumberToString 123 [res]
MathRound 3.75 [res]
❖ Ceil Floor Sqrt Abs Log Sin Cos Tan
```

Filters

```
[prix|currency:$]
[prix|number:2]
[nom|uppercase] ❖ Ann-Liz
[nom|lowercase] ❖ ann-liz
[nom|splitLt:"-"] ❖ Ann
[nom|splitRt:"-"] ❖ Liz
[car.model|element:1]
```

Logical Operators

```
== != === !== < <= > >=
and or not
```

Local Storage

```
SetItem "country" "France"
GetItem "country" [res]
RemoveItem "country"
```

Navigation

```
GotoPage "Welcome"
GotoPageNum "20" ❖ start=1
GotoFirstPage / GotoLastPage
GotoPrevPage / GotoNextPage
```

Strings

```
StrIns "here" "into ()" 6 [res]
StrDel "VisualNeo" 3 4 [res]
StrLen "Hello" [res]
StrCopy "A good thing" 2 4 [res]
StrSearch "sual" "VisualNeo" [res]
StrUpper "hEllo" [res]
StrLower "hEllo" [res]
StrReplace "ij+ij" "ij" "xy" [res] ""
StrParse "Ann/John/Liz" "/" [lst]
StrTrim "....abc.." [res]
StrTrimLeft / StrTrimRight
StrCompare "Liz" "LIZ" [resvf]
UnicodeToChar 65 [res] ❖ A
CharToUnicode "A" [res] ❖ 65
EncodeToBase64 [myVar] [res]
DecodeFromBase64 [myVar] [res]
StrEncodeURI [undecoded] [res]
StrDecodeURI [encoded] [res]
```

```
❖ "code [#34] [#13] [#124]"
```

Javascript

```
SetVar [myNeoVar] 123
BeginJS
    alert("m="+Math.min(2,1,3));
    let myJsVar=$App.myNeoVar;
EndJS
```

Date & Time

```
DateInputGetYear [myDate] [res]
DateInputGetMonth [myDate] [r]
DateInputGetDay [myDate] [res]
```

```
Delay 1000 ❖ millisec
SetInterval 500 "subRout" [varC]
ClearInterval [myDelay]
SetTimeout 500 "subRout" [varC]
ClearTimeout [varChrono]
```

```
TimerStart "Timer1" 1000
TimerStop "Timer1"
```

Misc.

```
ListBoxGetSelectedIndex "id" [res]
Refresh ❖ screen
```

HTML & CSS Objects

```
GetObjectAttribute "id" "att" [res]
SetObjectAttribute "id" "att" "val"
GetObjectStyle "id" "css" [res]
SetObjectStyle "id" "css" "value"
ClearObjectStyles "id"
GetObjectHTML "id" [res]
SetObjectHTML "id" "value"
GetObjectContext "id" [res]
SetObjectContext "id" "text"
GetObjectInfo "id" "prop" [res]
GetObjectXY "id" [xpos] [ypos]
```

```
DuplicateObject "ids" "idd" "pg"
DuplicateObjectEx "s" "d" "p" "css"
RemoveObject "id"
ShowObject "id" "fadein" 2
HideObject "id" "fadeout" 2
❖ 0=vite, 1=50ms, 2=100ms etc.
EnableObject "id"
DisableObject "id"
DisableObjectTextSelection "id"
SetObjectBounds "id" x y w h
MoveObject "id" x y
MoveObjectIntoContainer "id" "c"
SizeObject "id" w h
RotateObject "id" "45"
ObjectEnterFullScreen "Image1"
ObjectExitFullScreen "Image1"
SetRelativePosition "id" v h
❖ v=top,middle,bottom
❖ h=left,center,right
```

```
FocusObject "id"
GetFocusedObject [res]
ObjectToFront "id"
ObjectToBack "id"
ClickObject "myButton"
CheckCollision "id1" "id2" [bool]
CheckFullCollision "id1" "id2" [b]
```

```
AnimateObject "id" "5" "5" 1500
    "easeOutElastic" "subRoutine"
AnimateObjectCSS "id" [mycss]
    2000 0 "easeOutQuad" "subR"
```

```
CreateEmptyObject [mycss]
SetVar [mycss("left")] "+=200"
SetVar [mycss("top")] "+=100"
SetObjectCSS "id" [mycss]
```

Instructions

```
If [name] == ""
    AlertBox "Error!" "Empty" ""
Else
    GotoNextPage
EndIf

IfEx [age] > 30 and [name] == "Luc"

While [nbr] < 100
    SetVar [nbr] "[nbr]+1"
EndWhile
```

```
WhileEx [x] > 0 or [y] > 0
```

```
Loop 1 5 [nbr]
    jsAlert "Loop [nbr]"
EndLoop
```

```
LoopDown 5 1 [nbr]
```

```
CreateEmptyObject [obj]
SetVar [obj.prenom] "Patrik"
SetVar [obj.age] 99
LoopObject [i] [obj]
    GetObjectHTML "id1" [r]
    SetObjectHTML "id1" "[r][i]"
EndLoop
```

```
ExitWhile / ExitLoop / Continue
```

```
Wait 1000
    AlertBox "/!\ " "after 1 sec" ""
EndWait
```

```
.comment
MySubRoutine arg1 arg2... (F12)
Return
❖ res ← arg VarName
```

Events

```
OnKeyDown / RemoveOnK...
OnMouseEvent / RemoveOnM...
OnTouchEvent / RemoveOnT...
OnWindowResize / RemoveO...
OnDocumentReady
GetThisObjectName
```

Messages

```
jsAlert "Hello, it's me!"
jsConfirm "Ok Cancel?" [res]
jsPrompt "Country?" "Spain" [res]
AlertBox "Title" "Msg" "subRout"
AlertBoxEx "T" "M" x y "ffff" "r"
MessageBox "T" "M" "A|B|C" "r"
MessageBoxEx "T" "M" "M" x y ...
Exit "Close this app?"
```

```
OpenDialog "myPersoDialog"
CloseDialog
```

Drawing

```
❖ Color Stroke Backgr Width Font
DrawRect gr id x y w h sc sw bc
DrawEllipse gr id x y w h sc sw bc
DrawCircle gr id x y ray sc sw bc
DrawLine gr id x1 y1 x2 y2 sc sw
DrawPolyLine gr id "1..9" sc sw
DrawPolygon gr id "1..9" sc sw bc
DrawImage gr id file x y w h
DrawText gr id txt x y fc fs ff angle
DrawClear gr
SetViewBox gr x y w h
RestoreViewBox gr
DrawPath gr id code sc sw bc
M = moveto L = lineto
H = horiz lineto V = vert lineto
C = curveto S = smooth vrs
Q = quad Bézier T = smooth vrs
A = ellipt Arc Z = closepath
```

Error & Debug

```
Try
    Throw "My Personal Error!"
Catch
    AlertBox "Err" "[lastError]" ""
Finally
    AlertBox "Finally" "Already" ""
EndTry
```

```
ConsoleLog "Debug=[myVar]"
ConsoleTable "Debug=[myObj]"
```