AutoIt (en) Cheat Sheet

by SOLVE-SMART (SOLVE-SMART) via cheatography.com/177604/cs/37060/

Variable notation and datatypes

$aFruitsList	Array ($a)
$bIsVisible	Bool ($b)
$dBinData	Binary ($d)
$fPrice	Float ($f)
$hGui	Handle ($h)
$iNumber	Integer ($i)
$idButtonOk	GUI control id ($i)
$mPairs	Map ($m)
$oExcel	Object ($o)
$pRect	Pointer ($p)
$sText	String ($s)
$tSTRUCT	Struct ($t)
$vData	Variant ($v)

Complete list here

Variable scope

Global	Scope over the entire program
Local	Scope related to the block of code
Dim	Hybrid-like scope, local if not exists already globally

Tip: Avoid Dim, use explicit Local or Global

Tip: Don't use Global in function scope

Assignment operators

=	Assignment	$sText = 'Hi'
&	Concatenates/joins two strings	$sText & ' Max'
&=	Concatenation assignment	$sText &= ' Max' equivalent to $sText = $sText & ' Max'
+=	Addition assignment	$iNum += 1 equivalent to $iNum = $iNum + 1
-=	Subtraction assignment	$iNum -= 1 equivalent to $iNum = $iNum - 1
*=	Multiplicative assignment	$iNum *= 2 equivalent to $iNum = $iNum * 2
/=	Divisive assignment	$iNum /= 2 equivalent to $iNum = $iNum / 2

Arithmetic operators

+	Addition	10 + 20
-	Subtraction	20 - 10
*	Multiplication	20 * 10
/	Division	20 / 10
^	Power	2 ^ 4
Mod	Modulus	Mod(val1, val2)

Comparison operators

=	Equal (CI)	If $sText = 'Hi' Then ..
==	Strict equal (CS)	If $sText == 'Bye' Then ..
<>	Not equal (CI)	If $sText <> 'hello' Then ..
>	Greater than (CL)	
>=	Greater than or equal (CL)	
<	Less than (CL)	
<=	Less than or equal (CL)	

Legend: CI: case insensitive, CS: case sensitive, CL: compared lexicographically

Conditional operator

? :	Ternary	See section "Branching"

Logical operators

And	Logical And	If $iNum1 = 5 And $iNum2 > 6 Then ..
Or	Logical Or	If $iNum1 = 5 Or $iNum2 > 6 Then ..
Not	Logical Not	If Not $iNum = 5 Then ..

Comments

;	Single line comment
#cs #ce	This is a multi line comment

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Quotes and escaping

"First string"	Strings are enclosed in double-quotes
'Second string'	Strings can also be enclosed in single-quotes
"His name was ""Max"""	Double-quotes as escape character
'His name was "-Max"'	Or single-quotes instead
'I"m a string'	Single-quotes as escape character
"I'm a string"	Or double-quotes instead

Complete list here

Functions

Without parameters	Func _PrintHello() ConsoleWrite('Hello' & @CRLF) EndFunc
With parameters	Func _PrintText($sText) ConsoleWrite($sText & @CRLF) EndFunc

With optional parameters	Func _SendWithDelay($sKeys, $iDelay = 150)
	  Send($sKeys)
	  Sleep($iDelay)
	EndFunc

With Default keyword parameter	Func _SendWithDelay($sKeys, $iDelay = Default)
	  $iDelay = ($iDelay == Default) ? 150 : $iDelay
	  Send($sKeys)
	  Sleep($iDelay)
	EndFunc

Function calls:

```
_PrintHello(){
_PrintText('This is a text')
_SendWithDelay('{ENTER}')
_SendWithDelay('{ENTER}', 300)
_SendWithDelay('{ENTER}', Default)
```

Loops

For..Next	For $i = 1 To 10 Step 1 ConsoleWrite($i & @CRLF) Next
For..In..Next	For $sFruit In $aFruitsList ConsoleWrite($sFruit & @CRLF) Next

Loops (cont)

While..WEnd	While $iNum < 25
	  Sleep(200)
	  $iNum += 1
	WEnd

Do..Until	Do
	  Sleep(200)
	  $iNum += 1
	Until $iNum = 25

Branching

If..ElseIf..Else	If $iNum = 1 Then
	  ; do something
	ElseIf $iNum = 2 Then
	  ; do something
	Else
	  ; do something
	EndIf

Select	Select
	  Case $iNum = 42
	  ; do something
	  Case $sText = 'Test'
	  ; do something
	  Case Else
	  ; do something
	EndSelect

Switch	Switch @HOUR
	  Case 6 To 11
	  $sMessage = 'Good Morning'
	  Case 12 To 17
	  $sMessage = 'Good Afternoon'
	  Case Else
	  $sMessage = "Later than 17 o'clock"
	EndSwitch

Ternary	$sVariable = (condition) ? 'thenExpression' : 'elseExpression' $bIsAnswerToLife = ($iNum = 42) ? True : False

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Command line

$CmdLine[0]	Total number of given command line call parameters
$CmdLine[1]	First parameter (value) of given command line call

Command line call (e.g. as GUI parameter):
C:\Development\AutoIt>MyProgram.exe "800" "600"
$iGuiWidth = $CmdLine[1]
$iGuiHeight = $CmdLine[2]

Macros (special read-only variables)

@Compiled	Indicates whether the script is compiled or not
@CRLF	Carriage Return Line Feed
@error	Status of the error flag
@extended	Extended function return
@HOUR	Hours value of clock
@MIN	Minutes value of clock
@SEC	Seconds value of clock
@ScriptDir	Directory containing the running script

Complete list here

Directives

#include	Includes a file in the current script #include <Array.au3> or #include "path\filename.au3"
#include-once	Current file may only be included once
#NoTrayIcon	AutoIt tray icon will not be shown
#OnAutoItStartR-egister	Registers a function to be called when AutoIt starts
#pragma	Changes how the script is compiled
#RequireAdmin	Current script requires full administrator rights to run

Au3Check* common parameters

-d	As Opt("MustDeclareVars", 1)
-w 1	Already included file (on)
-w 2	Missing #comments-end (on)
-w 3	Already declared var (off)
-w 4	Local var used in global scope (off)
-w 5	Local var declared but not used (off)

Au3Check* common parameters (cont)

-w 6	Warn when using Dim (off)
-w 7	Warn when passing Const or expression on ByRef param(s) (on)

Au3Check* checks the script for syntax errors
Complete list here

Au3Stripper* common parameters

/sf	Strip all unused Func's
/sv	Strip unused Global and Local variable declar-ations
/mo	Just merges the Include files into the source and strips the Comments This is similar to aut2exe and helps finding the errorline
/rm	Rename Variables and Functions to a shorter name
/rsln	Replace @ScriptLineNumber with the actual line number

Au3Stripper* clean up the script through various options
Complete list here

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