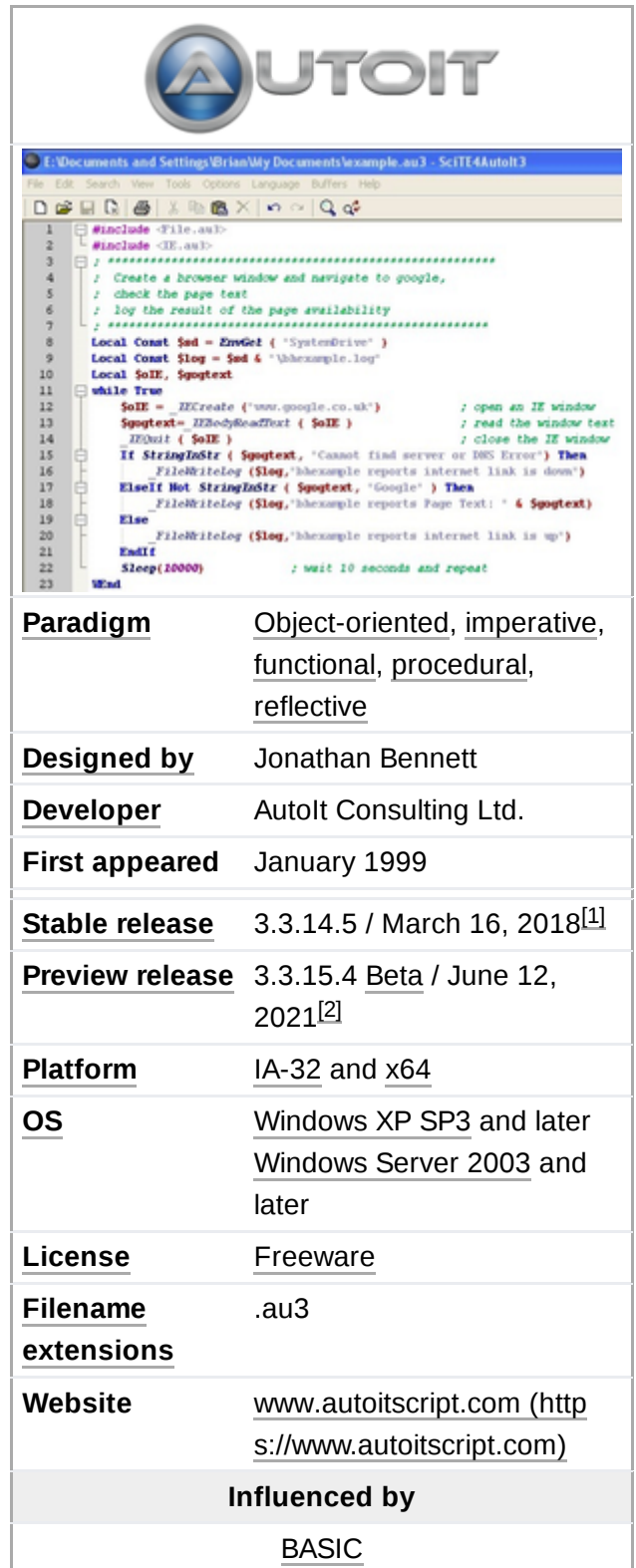


An AutoIt automation script can be converted into a compressed, stand-alone executable which can be run on computers even if they do not have the AutoIt interpreter installed. A wide range of function libraries (known as UDFs, or "User Defined Functions")^[5] are also included as standard or are available from the website to add specialized functionality. AutoIt is also distributed with an IDE based on the free SciTE editor. The compiler and help text are fully integrated and provide a *de facto* standard environment for developers using AutoIt.

External links



History

AutoIt1 and AutoIt2 were closed-source projects, and had a very different syntax than AutoIt3, whose syntax is more like VBScript and BASIC.^[9]

AutoIt3 was initially free and open-source, licensed under the terms of the GNU General Public License,^{[10][11]} with its initial public release 3.0.100 in February 2004,^[12] and had open-source releases in March 2004 and August 2004. Version 3.0.102, released in August 2004, was initially open-source, but by January 2005 was distributed as closed-source.^[13] Subsequent releases, starting from the February 2005 release of version 3.1.0, were all closed-source. Version 3.1.0 was also the first release with support for GUI scripts.

Related projects

The free and open-source AutoHotkey project derived 29 of its functions from the AutoIt 3.1 source code.^[14] The AutoHotKey syntax is quite different from AutoIt3 syntax, and rather resembles AutoIt2 syntax.

Features

AutoIt is typically used to produce utility software for Microsoft Windows and to automate routine tasks, such as systems management, monitoring, maintenance, or software installation. It is also used to simulate user interaction, whereby an application is "driven" (via automated form entry, keypresses, mouse clicks, and so on) to do things by an AutoIt script.

AutoIt can also be used in low-cost laboratory automation. Applications include instrument synchronization, alarm monitoring and results gathering. Devices such as CNC routers and 3D-printers can also be controlled.^[15]

- Scripting language with BASIC-like structure for Windows
- Compiling into standalone executables
- Add-on libraries and modules for specific apps
- Supports TCP and UDP protocols
- Supports component object model (COM)
- Call functions in DLL files
- Run console apps and access the standard streams
- Include data files in the compiled file to be extracted when running
- Create graphical user interfaces, including message and input boxes

Release timeline

1999	January: First Autolt Version (1.0) August: Autolt v2 and AutoltX September: First Autolt version with Compiler
2000	
2001	
2002	December: Autolt v3 (Public Beta)
2003	
2004	February: Autolt v3 (Stable)
2005	
2006	September: Auto3Lib started
2007	November: Autolt v3.2.10.0 released, Auto3Lib incorporated into Autolt v3
2008	May: Autolt v3.2.12.0 released, incorporating added GUI functionality December: Autolt (and AutoltX) v3.3.0.0 released
2009	December: Autolt v3.3.2.0 released
2010	January: Autolt v3.3.4.0 released March: Autolt v3.3.6.0 released April: Autolt v3.3.6.1 released
2011	December: Autolt v3.3.8.0 released
2012	January: Autolt v3.3.8.1 released
2013	December: Autolt v3.3.10.0 released
2014	June: Autolt v3.3.12.0 released
2015	July: Autolt v3.3.14.0 and v3.3.14.1 released September: Autolt v3.3.14.2 released ^[8]
2016	
2017	
2018	February: Autolt v3.3.14.3 released ^[6] March: Autolt v3.3.14.5 released ^[7]



AU3 File
Format Icon

- Play sounds, pause, resume, stop, seek, get the current position of the sound and get the length of the sound
- Simulate mouse movements
- Manipulate windows and processes
- Automate sending user input and keystrokes to apps, as well as to individual controls within an app
- Unicode support from version 3.2.4.0
- 64-bit code support from version 3.2.10.0
- Supports regular expressions
- Compatible with User Account Control
- Object-oriented design through a library^[16]

Examples

Hello world

```
; Make available a library of constant values.
#include <MsgBoxConstants.au3>

; Displays "Hello, world!" in a messagebox.
MsgBox($MB_SYSTEMMODAL, "Title", "Hello, world!")
```

Automating the Windows Calculator

```
; Make available a library of constant values.
#include <MsgBoxConstants.au3>

; Display a message box with a timeout of 6 seconds.
MsgBox($MB_OK, "Attention", "Avoid touching the keyboard or mouse during automation.", 6)

; Run the Windows Calculator.
Run("calc.exe")

; Wait for the calculator to become active with a timeout of 10 seconds.
WinWaitActive("[CLASS:CalcFrame]", "", 10)

; If the calculator did not appear after 10 seconds then exit the script.
If WinExists("[CLASS:CalcFrame]") = 0 Then Exit

; Automatically type the current year into the calculator.
Send(@YEAR)

; Let's slow the script down a bit so we can see what's going on.
Sleep(600)

; Automatically type in 'divide by 4', and then sleep 600 ms.
Send("/4")
Sleep(600)

; Hit the return key to display the result, and sleep 600 ms.
Send("{ENTER}")
Sleep(600)

; Copy the result to the clipboard using the Windows shortcut Ctrl+C.
Send("^c")

; Declare, and assign the contents of the clipboard to, a variable.
Local $fResult = ClipGet()
```

```

; Check to see if the variable contains a decimal point or not.
If StringInStr($fResult, ".") Then
    ; Display a message box with a timeout of 5 seconds.
    MsgBox($MB_OK, "Leap Year", @YEAR & " is not a leap year.", 5)
Else
    ; This message will only display if the current year is a leap year.
    MsgBox($MB_OK, "Leap Year", @YEAR & " is a leap year.", 5)
EndIf

; Close the Windows calculator - always tidy up afterwards.
WinClose("[CLASS:CalcFrame]")

```

Find average

```

; Find Average by JohnOne, modified by czardas
#include <MsgBoxConstants.au3>

_Example() ; Run the example.

Func _Example()
    ; Display an input box and ask the user to enter some numbers separated by commas.
    Local $sInput = InputBox("Find Average", "Enter some numbers separated by commas: 1,2,42,100,3")

    ; If an error occurred then exit the script.
    If @error Then Exit

    ; Populate an array with the user's input.
    Local $aSplit = StringSplit($sInput, ",")

    ; Pass the array to the function _Find_Average() and then check for errors.
    Local $fAverage = _Find_Average($aSplit)
    If @error Then Exit

    ; Display the result in a message box.
    MsgBox($MB_OK, "Find Average", "Result: " & $fAverage)
EndFunc ;==>_Example

Func _Find_Average($aArray)
    ; If the input is not of the correct type (an array), then return an error along with the details.
    If Not IsArray($aArray) Then Return SetError(1, 0, VarGetType($aArray))
    ; More detailed checks are possible, but for brevity just one is performed here.

    ; Declare a variable to store the sum of the numbers.
    Local $iArraySum = 0

    ; Loop through the array.
    For $i = 1 To $aArray[0]
        ; Increment the sum by the number in each array element.
        $iArraySum += Number($aArray[$i])
    Next

    ; Return the average rounded to 2 decimal places.
    Return Round($iArraySum / $aArray[0], 2)
EndFunc ;==>_Find_Average

```

See also

- [AutoHotkey](#)
- [Automator](#) (for Macintosh)
- [Expect](#)
- [Keyboard Maestro](#) (for Macintosh)
- [KiXtart](#)

- [iMacros](#)
- [Macro Express](#)
- [thinBasic](#)
- [Winbatch](#)

References

1. "Autolt Downloads" (<https://www.autoitscript.com/site/autoit/downloads/>). Autolt. Retrieved 2021-07-16.
2. "Autolt v3.3.15.4 Beta" (<https://www.autoitscript.com/forum/topic/206047-autoit-v33154-beta/>). Autolt. 2021-06-12. Retrieved 2021-07-16.
3. Reply by Jon (Autolt creator) to a forum topic discussing correct pronunciation (<https://www.autoitscript.com/forum/index.php?s=&showtopic=22349&view=findpost&p=155491>)
4. Kaplan, Steve (2003). *Citrix Metaframe Access Suite for Windows Server 2003*. New York: McGraw-Hill. ISBN 0-07-219566-5.
5. "User Defined Functions" (https://www.autoitscript.com/wiki/User_Defined_Functions). Autolt. 2021-06-22. Retrieved 2021-07-16.
6. Autolt v3.3.14.3 Released Feb 2, 2018 (<https://www.autoitscript.com/site/autoit-news/autoit-v3-3-14-3-released/>)
7. Autolt v3.3.14.5 Released March 16, 2018 (<https://www.autoitscript.com/site/autoit-news/autoit-v3-3-14-5-released/>)
8. "Autolt History" (<https://www.autoitscript.com/autoit3/docs/history.htm>). *www.autoitscript.com*. Retrieved 2016-04-19.
9. "Autolt Scripting Language" (<https://web.archive.org/web/20050211013725/http://www.autoitscript.com:80/autoit3/index.php>). Archived from the original (<http://www.autoitscript.com:80/autoit3/index.php>) on 2005-02-11.
10. "Licensing Opinions" (<https://www.autoitscript.com/forum/topic/7204-licensing-opinions/>). *Autolt*. 2005-05-02. Retrieved 2018-10-05. "The GPL license was chosen as it is generally accepted as the most restrictive"
11. "License" (<https://web.archive.org/web/20050104172743/https://www.autoitscript.com/autoit3/docs/license.htm>). 2014-03-25. Archived from the original (<https://www.autoitscript.com/autoit3/docs/license.htm>) on 2005-01-04. Retrieved 2018-10-05. "Autolt is copyrighted software distributed under the terms of the GNU General Public License (hereinafter the "GPL")"
12. <https://www.autoitscript.com/autoit3/files/archive/autoit/autoit-v3.0.100.zip>
13. "Autolt" (<https://web.archive.org/web/20050206105706/http://www.autoitscript.com:80/autoit3/docs/>). Archived from the original (<http://www.autoitscript.com:80/autoit3/docs/>) on 2005-02-06.
14. Chris Mallet (author of AutoHotkey)'s post (<https://autohotkey.com/board/topic/2916-three-thumbs-up/#entry18972>)
15. Carvalho, Matheus C. (March 2016). *Practical Laboratory Automation: Made Easy with Autolt*. Wiley V. pp. 5–7. ISBN 978-3-527-34158-0. Topics Covered in this Book.
16. "AutoitObject. a library to use object-oriented design in autoit" (<https://web.archive.org/web/20100226105014/http://autoitobject.origo.ethz.ch/>). February 26, 2010. Archived from the original (<http://autoitobject.origo.ethz.ch>) on 2010-02-26. Retrieved 2021-07-16.

External links

- [Official website \(https://www.autoitscript.com\)](https://www.autoitscript.com) 

Retrieved from "<https://en.wikipedia.org/w/index.php?title=Autolt&oldid=1056347376>"

This page was last edited on 21 November 2021, at 07:11 (UTC).

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.