

# AutoIt Brief Information and Cheat Sheet

## Installation hints

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Default action when double clicking on .au3 files – **Run script**

Type of install – **Full**

Version 3.3.0.0 is the current version. However, I have noticed that there is a bug in the help file that prevents the index portion of the help file from populating. If they run into that problem, you may need to check to see if the AutoIt.chw file is in C:\Program Files\AutoIt3. If not, I have gotten the .chw file to pop up when I opened AutoIt.chm, and then clicked on the Index tab. If that does not work, there are two other .chm files in that folder (AutoIt3 and UDFs3) that could be opened.

## Language comparisons

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	OML	AutoIt	
Variables	Abc1 (declare as \$%&)	\$Abc_1	Notes:
Comment	'hi mom	;hi mom	
Sending text	CS.InsertText "sheep"	Send("sheep")	Logic and Operator statements are similar between the two languages as well
Functions	Function name(name) name = value End Function (also sub)	Func name (name) Return \$value EndFunc	
Script pause	n/a	Sleep(...)	
Copy/paste	Clipboard.GetText (PutText)	ClipGet(...), ClipPut(...)	AutoIt only has one datatype - variant - that can contain string or numeric data.
Message boxes	MsgBox "Text"	MsgBox(0, "title", "text")	
Arrays	Array(0) = "A" Array(1) = "U"	\$Array[0]="A" \$Array[1]="U"	

## Types of Functions in AutoIt

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### Built-in

Ex.: Send

### User defined functions (UDF)

Ex.:

```
#include <array.au3>
```

```
_ArrayDisplay($myArray)
```

### Declare your own

```
Func (...) ... EndFunc
```

or

Create your own library

```
(#include <mine.au3>)
```

## Caveats

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- **Speed**
  - Millennium will be slower than the script. WinWaitActive and Sleep will help with timing, but be prepared to spend time getting the timing down.
- **"Windows"**
  - The script cannot read some of the text in the Millennium window. Selecting and copying window text or determining pixels patterns will help determine window text.

## References

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- AutoIt homepage
  - <http://www.autoitscript.com/autoit3/>
- Scripts Using AutoIt by Harvey E. Hahn
  - <http://research.ahml.info/oml/AutoIt.html>
- Automating Millennium and telnet tasks using Windows-based Scripting - Christina Hennessey
  - <http://www.lmu.edu/Page39671.aspx>
- IUG scripts page - Alan Brown
  - <http://www.burysac.org.uk/iug.php>
- *AutoIt v3: Your Quick Guide*, by Andy Flesner (O'Reilly Media, 2007)
  - <http://oreilly.com/catalog/9780596515126/>

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Some helpful commands (from the AutoIt help file)

Function Name	What does it do?	Example
<b>_ArrayDisplay</b>	Displays given 1D or 2D array in a listview.	<code>_ArrayDisplay(\$Array, "Array title")</code>
<b>_ArraySearch</b>	Finds an entry within a 1D or 2D array. Similar to <code>_ArrayBinarySearch()</code> , except that the array does not need to be sorted.	<code>\$Index = _ArraySearch(\$Array, "keyword", 0, 0, 0, 1)</code>
<b>GUICreate</b>	Create a GUI window.	<code>\$pic = GUICreate("", 169, 68, 0, 0, \$WS_POPUP, BitOR(\$WS_EX_LAYERED, \$WS_EX_MDICHILD), \$gui)</code>
<b>InputBox</b>	Displays an input box to ask the user to enter a string.	<code>\$passwd = InputBox("Security Check", "Enter your password.", "", "*")</code>
<b>MsgBox</b>	Displays a simple message box with optional timeout.	<code>MsgBox(0, "Test", "This box will time out in 10 seconds", 10)</code>
<b>Send</b>	Sends simulated keystrokes to the active window.	<code>Send("Today's date is 9/25/09")</code>
<b>Sleep</b>	Pause script execution.	<code>Sleep(5000) ;five seconds</code>
<b>StringInStr</b>	Checks if a string contains a given substring.	<code>\$result = StringInStr("I am a String", "ring")</code>
<b>StringLeft</b>	Returns a number of characters from the left-hand side of a string.	<code>\$result = StringLeft("I am a string", 3)</code>
<b>StringLen</b>	Returns the number of characters in a string.	<code>\$len = StringLen("How long am I?")</code>
<b>StringRegExpReplace</b>	Replace text in a string based on regular expressions.	<code>StringRegExpReplace("Where have all the flowers gone, long time passing?", "[aeiou]", "@")</code>
<b>StringSplit</b>	Splits up a string into substrings depending on the given delimiters.	<code>\$days = StringSplit("Sun,Mon,Tue,Wed,Thu,Fri,Sat", ",")</code>
<b>StringStripWS</b>	Strips the white space in a string.	<code>\$text = StringStripWS(" this is a line of text ", 3)</code>
<b>StringTrimLeft</b>	Trims a number of characters from the left hand side of a string.	<code>\$result = StringTrimLeft("I am a string", 3)</code>
<b>UBound</b>	Returns the size of array dimensions.	<code>\$rows = UBound(\$myArray)</code>
<b>WinActivate</b>	Activates (gives focus to) a window.	<code>WinActivate("Notepad", "")</code>
<b>WinClose</b>	Closes a window.	<code>WinClose ("Notepad", "")</code>
<b>WinExists</b>	Checks to see if a specified window exists.	<code>If WinExists("Untitled -") Then MsgBox(0, "", "Window exists") EndIf</code>
<b>WinWaitActive</b>	Pauses execution of the script until the requested window is active.	<code>WinWaitActive("Untitled")</code>