

HyperTalk™
Quick Reference Card

The information in this Quick Reference Card pertains to HyperCard version 1.2.2.

Script editor command summary

Key combination	Action
Command-A	Select entire script
Command-C	Copy selection to Clipboard
Command-F	Find text (same as Find button)
Command-G	Find next occurrence of same text
Command-H	Find current selection
Command-P	Print selection or (if no selection) entire script (same as Print button)
Command-period	Close script without saving changes (same as Cancel button)
Command-V	Paste Clipboard contents at insertion point
Command-X	Cut selection to Clipboard
Enter	Close script and save changes (same as OK button)
Option-Return	Wrap line without return character ("soft" return—symbolized by ↵ in scripts. Don't use a "soft" return inside quotation marks.)
Return	Return character—indicates end of HyperTalk statement
Tab	Format script

Shortcuts for seeing scripts

Key combination	Effect
Command-Option	Display buttons; click a button with keys down to edit its script
Shift-Command-Option	Display fields and buttons; click a field (or button) with keys down to edit its script
Command-Option-C	Edit script of current card
Command-Option-B	Edit script of current background
Command-Option-S	Edit script of current stack

Commands

In the statements listed below, square brackets [] enclose optional elements. (Don't type the square brackets.) Words in *italic* are placeholders describing general elements, not specific names; you must replace them in an actual command. It doesn't matter whether you use uppercase or lowercase letters in HyperTalk; names formed from two words are shown with an embedded capital letter (*likeThis*) merely to make them more readable. The HyperTalk prepositions *of* and *in* are interchangeable.

add expression to destination
answer "question" [with "reply" [or "reply2" [or "reply3"]]]
arrowKey keyName
ask [password] question [with defaultAnswer]
beep number
choose toolName tool
click at location [with key[, key2[, key3]]]
close file fileName
close printing
convert container to format [and format]
controlKey asciNumber
delete chunk [of container]
dial expression [with modem [modemCommands]]
divide destination by expression
doMenu menuItem
drag from start to finish [with key[, key2[, key3]]]
edit script of object
enterKey
find [chars] expression [in field fieldDesignator]
find [word] expression [in field fieldDesignator]
find string expression [in field fieldDesignator]
find whole expression [in field fieldDesignator]
functionKey keyNumber
get expression
go [to] [stack] "stackName"
go [to] bgndDescriptor [of [stack] "stackName"]
go [to] cardDescriptor [of bgndDescriptor] [of [stack] "stackName"]
help
hide menuBar
hide windowName
hide object
hide picture

lock screen
multiply *destination* by *expression*
open [*document with*] *application*
open file *fileName*
open printing [*with dialog*]
play "voice" [*tempo tempoValue*] [*"notes"*]
play stop
pop card [*preposition destination*]
print card
print *expression* cards
print *cardDescriptor*
print *document with application*
push *cardDescriptor*
put *expression* [*preposition destination*]
read from file *fileName* until *character*
read from file *fileName* for *numberOfCharacters*
reset paint
returnKey
select *object*
select [*preposition*] *expression* of *field*
select [*preposition*] *expression* of *msg*
select [*preposition*] *text* of *field*
select empty
set [*the*] *property* [*of object*] to *value*
show [*all*] cards
show *number* cards
show *menuBar*
show *windowName* [*at h, v*]
show *object* [*at h, v*]
show *picture*
sort [*direction*] [*style*] by *expression*
subtract *expression* from *destination*
tabKey
type *expression* [*with key[, key2[, key3]]*]
unlock screen [*with effectName*]
visual [*effect*] *effectName* [*speed*] [*to image*]
wait [*for*] *number* [*seconds*]
wait until *condition*
wait while *condition*
write *source* to file *fileName*

Functions

In the statements listed below, square brackets [] enclose optional elements. (Don't type the square brackets.) Words in *italic* are placeholders describing general elements, not specific names; you must replace them in an actual command. It doesn't matter whether you use uppercase or lowercase letters in HyperTalk; names formed from two words are shown with an embedded capital letter (*likeThis*) merely to make them more readable. The HyperTalk prepositions *of* and *in* are interchangeable.

When using functions in HyperTalk statements you must either use the word *the* before the function name or add parentheses after it. Both forms are shown in the list that follows. *Factor* is a single value, such as the number 5 or a container holding a value; *expression* can be a single factor or a combination of several factors and operators that results in a value, such as $(2+3)$ or $(2+(\text{field } 1))$. Parameters in a list must be separated by commas.

<i>the abs of factor</i> <i>abs (expression)</i>	Absolute value
<i>annuity (rate, periods)</i>	Calculates an annuity
<i>the atan of factor</i> <i>atan (expression)</i>	Arc tangent—radians
<i>average (list)</i>	Calculates an average
<i>the charToNum of factor</i> <i>charToNum (expression)</i>	Returns the ASCII value of a character
<i>the clickH</i>	Gives horizontal coordinate of where the user last clicked
<i>the clickLoc</i> <i>clickLoc ()</i>	Gives horizontal and vertical coordinates of where the user last clicked
<i>the clickV</i>	Gives vertical coordinate of where the user last clicked
<i>the commandKey</i> <i>commandKey ()</i>	Condition of the Command key: up or down
<i>compound (rate, periods)</i>	Calculates compound interest
<i>the cos of factor</i> <i>cos (expression)</i>	Cosine—radians
<i>the [modifier] date</i>	Current date set in the Macintosh: long or short
<i>the diskSpace</i> <i>diskSpace ()</i>	Amount of free space on the current disk
<i>the exp of factor</i> <i>exp (expression)</i>	Mathematical exponential
<i>the exp1 of factor</i> <i>exp1 (expression)</i>	1 less than mathematical exponential: <i>exp () -1</i>
<i>the exp2 of factor</i> <i>exp2 (expression)</i>	The value of 2 raised to the power of <i>factor</i>

the foundText	Returns characters found by the <code>find</code> command
the foundChunk	Returns a description of where the text is found
the foundLine	Tells which line the found text is in
the foundField	Tells which field the found text is in
the length of <i>factor</i> <code>length (expression)</code>	Number of characters in a text string
the ln of <i>factor</i> <code>ln (expression)</code>	Natural logarithm—base- <i>e</i>
the ln1 of <i>factor</i> <code>ln1 (expression)</code>	1 plus the natural logarithm: $\ln(1+factor)$
the log2 of <i>factor</i> <code>log2 (expression)</code>	Base-2 logarithm
<code>max (list)</code>	Returns the highest number value of a list
<code>min (list)</code>	Returns the lowest number value of a list
the mouse <code>mouse ()</code>	Condition of the mouse button: <code>up</code> or <code>down</code>
the mouseClicked <code>mouseClick ()</code>	Returns <code>true</code> if the mouse button is clicked
the mouseH <code>mouseH ()</code>	Horizontal position of the pointer on the screen
the mouseLoc <code>mouseLoc ()</code>	Horizontal and vertical coordinates of the pointer
the mouseV <code>mouseV ()</code>	Vertical position of the pointer
[the] number of <i>objects</i>	Number of buttons/fields on current card or bg
[the] number of <i>chunks</i> in <i>factor</i>	Number of characters, words, lines, and so on in text string
[the] number of cards of <i>background</i>	Number of cards in specified background
the numToChar of <i>factor</i> <code>numToChar (expression)</code>	Returns the character corresponding to an ASCII value
<code>offset (string1, string2)</code>	Gives number of characters between the beginnings of two strings
the optionKey <code>optionKey ()</code>	Condition of the Option key: <code>up</code> or <code>down</code>
the param of <i>factor</i> <code>param (expression)</code>	Returns the value of a parameter in a list
the paramCount <code>paramCount ()</code>	The total number of parameters
the params <code>params ()</code>	The entire list of parameters

the random of <i>factor</i> random(<i>expression</i>)	Gives a random integer from 1 to the value of <i>factor</i>
the result result()	Returns a text string if find or go is unsuccessful
the round of <i>factor</i> round(<i>expression</i>)	Rounds to nearest integer: an odd integer plus 0.5 rounds up; an even integer, down
the screenRect screenRect()	The rectangle of the screen in which the menu bar is displayed: left, top, right, bottom coordinates
the seconds seconds()	Number of seconds between midnight January 1, 1904, and the current time in your Macintosh
the selectedText	Returns the text currently selected
the selectedChunk	Describes the location of the selected text
the selectedLine	Tells which line the selected text is in
the selectedField	Tells which field the selected text is in
the shiftKey shiftKey()	Condition of the Shift key: up or down
the sin of <i>factor</i> sin(<i>expression</i>)	Sine—radians
the sound sound()	Name of sound resource currently playing, or "done" if none is playing
the sqrt of <i>factor</i> sqrt(<i>expression</i>)	Square root of a positive number—a negative number gives the result NAN(001) meaning "not a number"
the tan of <i>factor</i> tan(<i>expression</i>)	Tangent—radians
the target target()	Identifies the original recipient of a message
the ticks ticks()	Number of ticks (1/60 second) since the Macintosh was turned on or restarted
the [<i>modifier</i>] time time()	Gives time as a text string: long, short, abbreviated
the tool tool()	Name of currently chosen tool
the trunc of <i>factor</i> trunc(<i>expression</i>)	The integer part of a number in <i>function</i>
the value of <i>factor</i> value(<i>expression</i>)	Gives the value of a string as an expression
the [long] version [of HyperCard] version()	Returns the version number of HyperCard
the version of <i>stackDescriptor</i>	Tells version of HyperCard used to create, compact, change since compacted, and make latest changes, plus the date modified in seconds since January 1, 1904

Operator precedence

Order	Operators	Type of operator
1	()	Grouping
2	-	Minus sign for numbers
	not	Logical negation for Boolean values
3	^	Exponentiation for numbers
4	* / div mod	Multiplication and division for numbers
5	+ -	Addition and subtraction for numbers
6	& &&	Concatenation of text
7	> < <= >= ≤ ≥	Comparison for numbers or text
	is in contains	Comparison for text
	is not in	Comparison for text
8	= is is not <> ≠	Comparison for numbers or text
9	and	Logical for Boolean values
10	or	Logical for Boolean values