

# Icon Commands

Instructions and functions to handle strings

## **Asc CHARACTER\$**

Converts the first character of a string into it's ASCII code

*Parameters:*

CHARACTER\$: The character to convert

*Value returned:*

integer: The equivalent in ASCII

## **Left\$ STRING\$, NUMBER**

Return or set the leftmost characters of a string

*Parameters:*

STRING\$: The string

NUMBER: The number of characters to set or return

*Value returned:*

string: The extracted portion of string

## **Right\$ STRING\$, NUMBER**

Return or set the rightmost characters of a string

*Parameters:*

STRING\$: The string

NUMBER: The number of characters to set or return

*Value returned:*

string: The extracted portion of string

## **Mid\$ STRING\$, OFFSET, NUMBER**

Return or set a portion of a string

*Parameters:*

STRING\$: The string

OFFSET: The offset from the start of the string

NUMBER: The number of characters to set or return

*Value returned:*

string: The extracted portion of string

## **Flip\$ STRING\$**

Invert a string

*Parameters:*

STRING\$: The string

*Value returned:*

string: The inverted string

## **Chr\$ CODE**

Return the character with a given ASCII code

*Parameters:*

CODE: The ascii code to convert into a string

*Value returned:*

string: The string containing the representation of the ASCII code

### **Space\$ LENGTH**

Return a string contain the demanded amount of spaces

*Parameters:*

LENGTH: The number of spaces desired

*Value returned:*

string: A string with only spaces

### **String\$ STRING\$, NUMBER**

Create a new string from the first character of an existing string

*Parameters:*

STRING\$: The string to repeat

NUMBER: The number of time to repeat the first character

*Value returned:*

string: A string with the source first character repeated a number of times

### **Upper\$ STRING\$**

Convert a string of text to upper-case

*Parameters:*

STRING\$: The string to convert

*Value returned:*

string: The upper-case version of the string

### **Lower\$ STRING\$**

Convert a string of text to upper-case

*Parameters:*

STRING\$: The string to convert

*Value returned:*

string: The lower-case version of the string

### **Str\$ NUMBER**

Convert a number into a string

*Parameters:*

NUMBER: The number to convert

*Value returned:*

string: The text version of the number, respecting the rules et by teh "Fix" instruction

### **Val STRING\$**

Convert a string into a number

*Parameters:*

STRING\$: The string to evaluate

*Value returned:*

number: The numerical version of the string. Returns zero if the converstion fails (TODO! Report error)

### **Bin\$ NUMBER, DIGITS**

Convert a decimal value into a string of binary digits

*Parameters:*

NUMBER: The number to convert

DIGITS: The number of digits, optional

*Value returned:*

string: A string in the form of %0000... representing the binary version of the number

**Hex\$ NUMBER, DIGITS**

Convert a decimal value into a string of hexadecimal digits

*Parameters:*

NUMBER: The number to convert

DIGITS: The number of digits, optional

*Value returned:*

string: A string in the form of %0000... representing the binary version of the number

**Len STRING**

Return the length in characters of a string

*Parameters:*

STRING: The number to convert

*Value returned:*

integer: The number oof characters in the string

**Instr HOST\$, GUEST\$, START**

Search for occurrences of one sub-string within another string

*Parameters:*

HOST\$: The string to search into

GUEST\$: The sub-string to search

START: Option first character position to start the search

*Value returned:*

integer: The position of the sub-string if found, starting at 1, zero if not found (TODO! make a all-indexes-at-zero tag!!!)

**Tab\$**

Return a string containing the Tab character (ASCII: 9) to be used in a "Print" statement

*Value returned:*

string: A string containing the Tab character

**Repeat\$ TEXT\$, NUMBER**

Repeat a string

*Parameters:*

TEXT\$: The string to be repeated

NUMBER: The number of repetitions

*Value returned:*

string: A string contaning the original string repeated NUMBER of times