LiveCode Cheat Sheet

Comments

Comments allow you to add explanations and annotations to your code.

```
-- these
# are
// all
/* commented
 out */
```

Variables

Variables are used to to store information, the stored value can be changed or accessed when you need it.

```
local tVar
put "str" into tVar
put 1 into tVar

put "val" into
tVar["key"]
```

Constants

Constants store a value that is defined at the point of declaration and never changes.

```
constant kFoo = 15
```

Control Structures

Control structures are used to control what code is executed and how many times.

```
repeat for each
char tChar in tVar
end repeat

repeat 10
end repeat

repeat with x = 1
to 10
end repeat

repeat while x > 1
     subtract 1
from x
end repeat

if true then ...
else ...

if tVar then
else if tOther
then
else
end if

switch tVar
     case "a"
        break
     default
        break
end switch
```

Operators

Operators are ways of combining values such as boolean values, numbers or strings, to produce other values.

```
// Logical
true and false is
false
true or false is
true
not false is true

// String
"foo" & "bar" is
"foobar"
"foo" && "bar" is
"foo bar"
"string" begins
with "st"
"string" ends with
"g"

// Chunks
char 5 of "string"
is "n"
item 3 of "a,b,c"
is "c"
word 1 of "hi
there" is "hi"
line 2 of "a" &
return & "b" is
"b"

// Compound
chunks
char 1 of item 1 of
line 1 of "a,b,c"
is "a"
```

String Processing

These examples show how string values can be manipulated.

```
// General
put "a" before tVar
delete char 1 of
tVar
replace "_" with
"-" in tVar

// Regex
matchText("1", "
([0-9])", tN) is
true
tN is 1

filter lines of
tVar with regex
pattern tPattern
```

Array Processing

These examples show how array values can be manipulated.

```
// Split / combine
put "a,b,c" into
tVar
split tVar by ","
tVar[2] is "b"
combine tVar with
","
tVar is "a,b,c"

// Iteration
repeat for each
key tKey in tArray
 -- Do something
with tArray[tKey]
end repeat

repeat for each
element tElement in
tArray
end repeat

// Length
the number of
elements in tArray
```

Sorting

These examples show how to sort items and lists.

```
local tList
put "5,2,3,1,4"
into tList
sort items of tList
ascending numeric
 -> tList is
"1,2,3,4,5"
sort items of tList
descending numeric
 -> tList is
"5,4,3,2,1"

local tData
put "6,1:8,3:2,2"
into tData
set the
lineDelimiter to
":"
sort lines of tData
ascending numeric
by item 2 of each
 -> tData is
"6,1:2,2:8,3"
```

Files & Processes

These examples show how to read from and write to files and processes.

```
get url("file:/" &
tPath)
put "" into
url("file:/" &
tPath)

open process tProc
read from process
tProc for 5
close process tProc
```

User Input / Notification

These examples show how to pop up information dialogs, or prompts for user input.

```
ask "What is your name?"
put it into tName

answer "Something"
```

Custom Handlers

A custom handler is a function or command that you define yourself.

```
function foo pParam
end foo
// get foo(tVar)

command bar pParam
end bar
// bar 5
```

Event Handlers

An event handler is a hander that is triggered when an event occurs, such as the use of the mouse or keyboard.

```
// Mouse
on mouseUp pButton
end mouseUp

on mouseDown
pButton
end mouseDown

on mouseMove
end mouseMove

// Keyboard
on keyDown pKey
end keyDown

on keyUp pKey
end keyUp
```