

Introduction

(<https://livecode.com/docs/9-5-0/introduction/>)

Lessons

(<https://livecode.com/docs/9-5-0/lessons/>)

FAQ (<https://livecode.com/docs/9-5-0/faq/>)

Language

(<https://livecode.com/docs/9-5-0/language/>)

Education Curriculum

(<https://livecode.com/docs/9-5-0/education-curriculum/>)

Deployment

(<https://livecode.com/docs/9-5-0/deployment/>)

Components

(<https://livecode.com/docs/9-5-0/components/>)

Tooling

(<https://livecode.com/docs/9-5-0/tooling/>)

Core Concepts

(<https://livecode.com/docs/9-5-0/core-concepts/>)

Language Comparison

(<https://livecode.com/docs/9-5-0/language-comparison/>)

Python - LiveCode Cheat Sheet

(<https://livecode.com/docs/9-5-0/language-comparison/python-livecode-cheat-sheet/>)

JavaScript - LiveCode Cheat Sheet

(<https://livecode.com/docs/9-5-0/language-comparison/javascript-livecode-cheat-sheet/>)

Python - LiveCode Cheat Sheet

Comments

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

Python

LiveCode

```
# this is  
commented  
out
```

```
-- 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.

Python

LiveCode

Comments

Variables

Control
Structures

Operators

String
Processing

Array
Processing

Sorting

Files &
Processes

User Input
/
Notification

Custom
Handlers

0/language-comparison/javascript-livcode-cheat-sheet/)
Python - LiveCode Builder Cheat Sheet (<https://livecode.com/docs/9-5-0/language-comparison/python-livcode-builder-cheat-sheet/>)
JavaScript - LiveCode Builder Cheat Sheet (<https://livecode.com/docs/9-5-0/language-comparison/javascript-livcode-builder-cheat-sheet/>)

Extending LiveCode
(<https://livecode.com/docs/9-5-0/extending-livcode/>)

Whats New?
(<https://livecode.com/docs/9-5-0/whats-new/>)

```
var =  
"str"  
var =  
1
```

```
var["key"]  
= "val"
```

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

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

Control Structures

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

Python

LiveCode

```
for x in tVar:  
    # do things  
for x in  
range(10):
```

do things

```
while x > 1:  
x -= 1
```

```
if tVar:  
elif tOther:  
else:
```

```
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.

Python

LiveCode

```
//
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"
```

```
# Logical
true and false == false
true or false == true
!false == true
```

String

```
"foo" + "bar" == "foobar"
strs = ['foo','bar']
' '.join(strs) == "foo
bar"
"string".startswith("st")
"string".endswith("g")
```

```
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"
```

Chunks

```
"string"[4:5] == "n"
```

```
items =
"a,b,c".split(" ")
items[2] == "c"
```

```
words = "hi
there".split(" ")
words[0] == "hi"
```

```
lines = "anb".split("n")
lines[1] == "b"
```

```
lines = "a,b,c".split("n")
items = lines[1].split(" ")
items[1][0:1] == "a"
```

String Processing

These examples show how string values can be manipulated.

Python

LiveCode

```
# General
var = 'a' + var
var = var[1:]
var.replace("_",
"-")
```

Regex

```
found =
re.match('([0-9])', '1')
num =
tMatch.group(1)
```

```
// 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
```

```
for line in var:
if re.match(pattern,
line):
filtered.push(line)
var =
'n'.join(filtered)
```

filter lines of
tVar with regex
pattern tPattern

Array Processing

These examples show how array values can be manipulated.

Python

LiveCode

```
# Split / combine
var = "a,b,c".split(",")
var[1] is "b"
','.join(var)
var == "a,b,c"
```

Iteration

for key in array:

do
something
with
array[key]

Length

```
len(array)
```

```
// Split  
combine  
put "a,  
into tV  
split  
by ",",  
tVar[2]  
"b"  
combine  
with ",  
tVar is  
"a,b,c"  
// Iterate  
repeat  
each ke  
in tArr  
-- Do  
some  
with  
tArray  
end re
```

```
repeat  
each el  
tElemen  
tArray  
end re
```

```
// Length  
the number  
elements i
```

Sorting

These examples show how
to sort items and lists.

Python

LiveCode

```
list = [5, 2, 3, 1, 4]
sorted(list)
== [1, 2, 3, 4, 5]
sorted(list,
reverse=True)
== [5, 4, 3, 2, 1]
```

```
data = [(6, 1),
(8, 3), (2, 2)]
sorted(data,
key=itemgetter(2))
== [(6, 1), (2, 2), (8, 3)]
```

```
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.

Python

LiveCode


```
open(tPath).read()  
open(tPath).write("")
```

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

```
process =  
subprocess.Popen([tProc],  
stdout=subprocess.PIPE)  
while True:  
process.wait()  
data =  
process.stdout.read(5)  
if data:  
break
```

```
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.

Python

LiveCode

```
dlg =  
wx.TextEntryDialog(None,  
"What is your name?",  
defaultValue=default_value)  
dlg.ShowModal()  
name = dlg.GetValue()  
dlg.Destroy()
```

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

```
dlg = wx.MessageDialog(None,  
"Something", caption, wx.OK)  
result = dlg.ShowModal()  
dlg.Destroy()
```

```
answer  
"Something"
```

Custom Handlers

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

Python

```
def  
foo(param):  
# return  
something  
#  
foo(var)
```

LiveCode

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

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

Offline (Leave a message)