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Python - LiveCode Builder Cheat Sheet

Comments

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

Python

LiveCode Builder

```
# this is  
commented  
out
```

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

Literals

A literal is a notation for creating a particular type of value.

Python

LiveCode Builder

Comments

Literals

Variables

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Python - LiveCode Builder Cheat Sheet

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Extending LiveCode

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Whats New?

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```
"string
literal"
'string
literal'
["list", "of",
"literals"]
{"dictionary":
"literal"}
```

```
"string
literal"
["list",
"of",
"literals"]
{"array":
"literal"}
```

Variables

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

Python

LiveCode Builder

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

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

```
variable tVar
put
"str"
into tVar
put 1
into tVar
```

```
variable tArr
as Array
put "val"
into
tArr["key"]
```

Control Structures

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

```
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 times  
end  
repeat
```

```
repeat  
with tX  
from 1 up  
to 10  
end  
repeat
```

```
repeat  
while tX  
> 1  
subtract  
1 from tX  
end  
repeat
```

```
if tVar then  
else if  
tOther then  
else  
end if
```

Operators

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

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")
```

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"
```

```
//
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"
```

```
split
"a,b,c"
by ",",
into
tItems
tItems[3]
is "c"
```

```
split
"hi
there" by
" " into
tWords
tWords[1]
is "hi"
```

```
split
"anb" by
"n" into
```

```
tLines  
tLines[2]  
is "b"
```

```
split "a,b,c"  
by "n" into  
tLines  
split tLines  
by "," into  
tItems  
char 1 of  
tItems[1] is  
"a"
```

String Processing

These examples show how
string values can be
manipulated.

Python

LiveCode Builder

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

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

Regex

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

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

Array Processing

These examples show how array values can be manipulated.

Python

LiveCode B

```
# 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 Builder

```
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)]
```

```
variable tList
put
[5,2,3,1,4]
into tList
sort tList
in
ascending
numeric
order
-> tList
is
[1,2,3,4,5]
sort tList
in
descending
numeric
order
-> tList
is
[5,4,3,2,1]
public
handler
DoSort(in
pLeft, in
pRight)
returns
Integer
return
pLeft[2] -
pRight[2]
end handler
```

```
variable tData
as List
put [[6, 1],
[8, 3], [2, 2]]
into tData
sort tData
using handler
DoSort
-> 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 Builder

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

```
get the  
contents  
of file  
tPath  
set the  
contents  
of file  
tPath to  
""
```

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

Custom Handlers

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

Python

LiveCode Builder

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

```
handler  
foo(in  
pParam)  
end foo  
// get  
foo(tVar)  
// foo 5
```

Offline (Leave a message)