

Re BASIC! Tab generation and management



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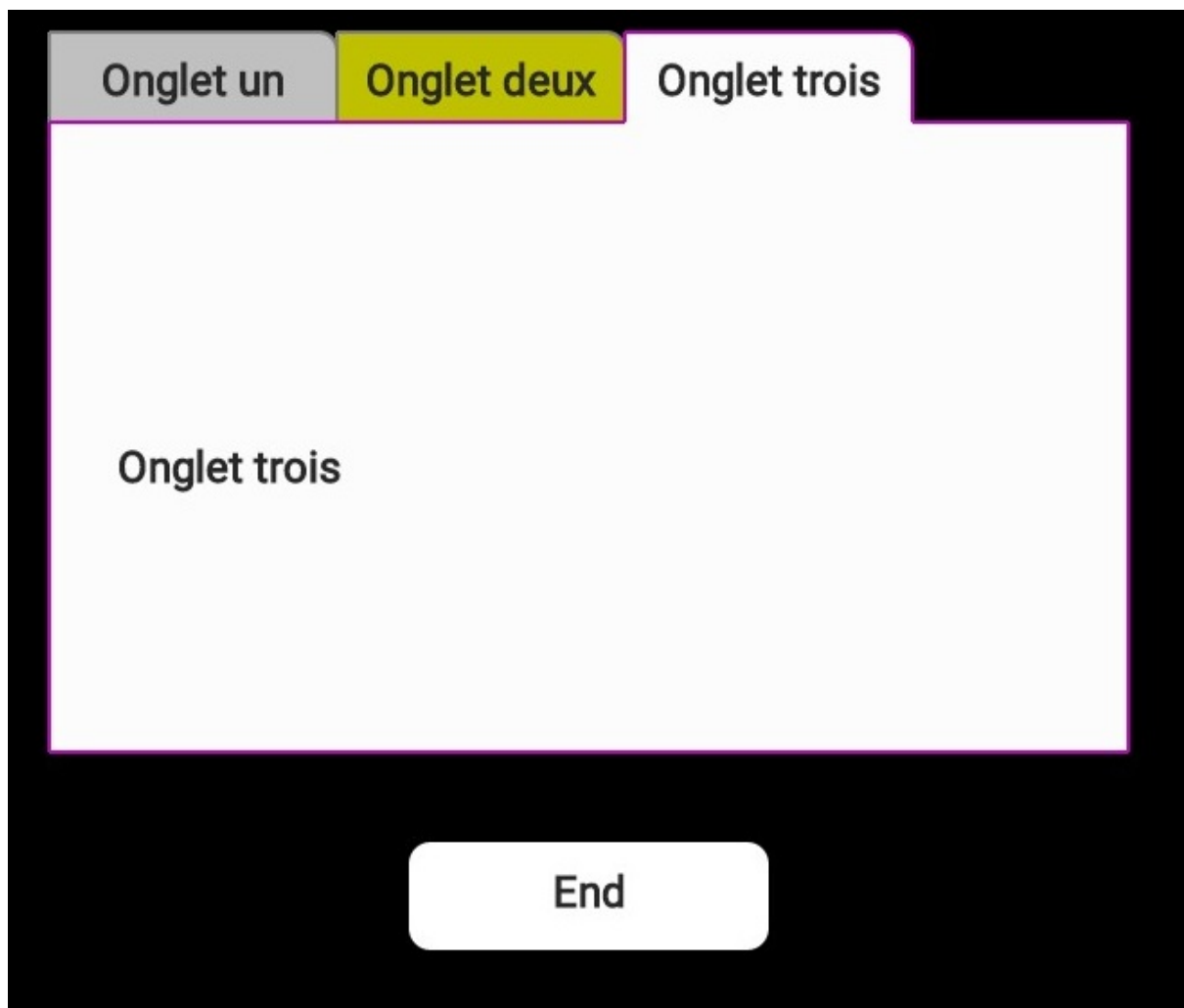
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Conventions

Commands syntax, instructions in programming language and examples are with font COURIER NEW. The optional parties of syntactic explanation are contained between [square parentheses], alternatives are separated by | and the variable parties are in *italics*.

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1 Tab generator

The script is a demo that contains functions to generate tabs in RFO Basic (version 1.91).

1.1 Calling the tab generator

The function `createTab` has one string parameter that contains informations for generate one tab; it returns a bundle of data.

```
answer = createTab("Title=Onglet un,color=FFC0C0C0,position=1,width=600,height=400)
```

1.2 Parameter description

The parameters have the form `parameter=value[,parameter=value [...]]`, where `parameter` is indifferent to the case.

All parameters are optional and have a default value.

Parameter	Default value	Note
Border	FF7F7F7F	Border color
Color	FFFCFCFC	Background color (silver)
Height	90% of screen height	Tab height
Left	5% of screen width	Left position
Position	1	Tab position
Title	Tab position	Tab title
Top	5% of screen height	Top position
Width	90% of screen width	Tab width

1.3 Information returned

The function returns some information contained on a bundle useful for manage the form:

Key	Type	Note
glist	numeric list	list of object number used to create the tab
touch	string	containing the coordinate of rectangle: <i>Left, Top, Right, Bottom</i>
label	numeric	object number of the tab title

For act on tabs `glist` and `touch` must be stored: in this script `glist` is stored in an array and `touch` in a bundle with name `TabPosition` (see below).

```
bundle.create touches      % key = fieldname, dtaa = left, top, right, bottom
bundle.create tabs        % key = TabPosition, data = gList
array.load arrayGList[],0,0,0,0,0      % grafic list array of tabs
...
answer = createTab("Title=Onglet un,position=1,width=600,height=400,LEFT=50,Top=50")
arrayGList[1] = getBundle(answer,"glist")
bundle.put touches,"Tab1",getBundle$(answer,"touch")
```

1.4 Guideline

1.4.1 Adding graphic object to tab

A graphic object can be added to a tab by adding its object number to the list of tab objects:

```
gr.text.draw txt,150,300,"Onglet un"
list.add arrayGList[1],txt % this text is added to tab
```

1.4.2 Changing a Tab presentation

All drawing object are contained in a list and are drawn from the first one: we must rearrange the list for send at bottom the graphic object list of the selected tab (see the script above fragment):

```
FN.DEF changeTab(tabNumber,aGList[],otherGraphics)
  ARRAY.LENGTH numberOfTabs, aGList[]
```

```

list.create N,newLst
For i=1 to numberOfTabs
  if aGList[i] > 0 Then if i <> tabNumber Then list.add.list newLst,aGList[i]
Next
list.add.list newLst,aGList[tabNumber] % this is the tab to show
if otherGraphics > 0 then list.add.list newLst,otherGraphics
list.toArray newLst,newArr[]
GR.newDL newArr[] % replace the display list
GR.render
FN.END

```

2 Functions

2.1 Create button

The function create a button with rounded corner; it returns the Object number list list.

Syntax:

```
buttonGraphicList = button(text$,left,top,width,height)
```

2.2 Test string by Regular Expression

The function matchRE return true if a string match a regular expression:

Syntax:

```
boolAnswer = matchRE(stringToTest,regularExpression)
```

```

FN.DEF matchRE(field$,re$) % return true if match
  split a$[],""+field$+"",re$
  array.length ll,a$[]
  FN.RTN ll-1
FN.END
...
re$ = "[aAbBcCdDeEfF\d]{8}"
if matchRE("f7c0c0c0",re$) Then ... % this matches

```

2.3 Show tab selected

The function force the redraw of tabs.

Syntax:

```
changeTab(tabNumber,arrayOfGraphicsList,otherGraphicsList)
```

otherGraphicsList is a graphic list of objects outside of Tab or 0 if there are none.

2.4 Test choice

The function returns a name of the object touched or an empty string.

Syntax:

```
nameOfObject = button(touchsBundle)
```

3 Open problems

When Tabs contain touchable objects the script is unable, currently, may be unable to locate the correct object.

4 Technical notes

4.1 Arrays

Name	Note
arrayGList	Graphic list of Tabs

4.2 Bundles

Name	Key	Value	Note
------	-----	-------	------

answer	<i>parameterName</i>	<i>parameterValue</i>	Returned parameters
touches	<i>Name</i>	<i>touchRectangle</i>	