

Some LiveCode Mini-Projects

Counting with a Repeat Loop

Build a card with a field titled "answer." Put the following script into a button:

```
on mouseUp
  put 0 into varNumber
  repeat 10 times
    add 1 to varNumber
    put varNumber into field "answer"
    wait .2 seconds
  end repeat
end mouseUp
```

Using a Repeat Loop to Wish Happy Birthday to People in a List

Build a card with two fields, one titled "names" and the other titled "birthday." Type several names into the field "names." Put the following script into a button:

```
on mouseUp
  put the number of lines in field "names" into varTotal

  put 1 into varLine
  repeat varTotal times
    put line varLine of field "names" into varName
    put "Happy Birthday, "&varName&"!" into line varLine of field "birthday"
    add 1 to varLine
  end repeat
end mouseUp
```

Here's an alternative script that does the same thing:

```
on mouseUp
  put the number of lines in field "names" into varTotal

  repeat with i = 1 to varTotal
    put line i of field "names" into varName
    put "Happy Birthday, "&varName&"!" into line i of field "birthday"
  end repeat
end mouseUp
```

Note: The letter i is just another local variable. You could name it varIncrement, varCount or anything you want.

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An EZ Calculator

Build a card with four fields with these titles "num1", "symbol", "num2", "equal", and "answer." Put an equal sign in the field "equal." The idea is to build an equation that looks like this:

$$3 + 4 = 7$$

where 3 is num1, 4 is num2 and 7 is answer. The plus sign is the symbol.

Put the following script into a button titled "Add":

```
on mouseUp
  put empty into field "answer"
  put "+" into field "symbol"

  put field "num1" into varNum1
  put field "num2" into varNum2
  put varNum1 + varNum2 into field "answer"

  //You could use the next line instead of the previous three. So you don't really
  need to create variables, but
  // it's good to see how to make variables out of each field's value.
  //put field "num1" + field "num2" into field "answer"

end mouseUp
```

Copy and paste the add button to make subtract, multiply, and divide buttons. Replace the + symbol with the appropriate math symbol. Also change the mathematical operation statement as follows:

```
put varNum1 - varNum2 into field "answer"
put varNum1 * varNum2 into field "answer"
put varNum1 / varNum2 into field "answer"
```

Note: The asterisk () is used to represent multiplication.*