

## Re: Programatically design a form

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*Source:*

<http://www.tech-archive.net/Archive/VB/microsoft.public.vb.general.discussion/2005-07/msg00418.html>

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- *From:* "Peter T" <[peter\\_t@discussions](mailto:peter_t@discussions)>
  - *Date:* Thu, 7 Jul 2005 18:30:09 +0100
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Patrick,

- > Peter –
- > MANY thanks for your reply. You've given me a bunch of
- > ideas to think about and play around with. Could you answer
- > another question or two for me?
- >
- > 1. Is the limit on the number of controls based upon EACH
- > form in a VBA app? Can each form have, say, 256? Or,
- > is that the limit for the entire app, regardless of number of
- > forms?

AFAIK 256 per form. I don't know but might have problems if multiple forms are loaded even if not Show'n. If you reference a form it will automatically load into memory, which would occur if you copy controls from one form to another – so would need to unload the dummy form when done.

- > 2. If the limit from #1 is PER FORM, and I use your sug-
- > gestions for copying/pasting pages at runtime, does the
- > paste bring all the code along with the pasted page and
- > its controls? If so, then maybe I could have a second,
- > dummy form that holds the "to-be-loaded-at-runtime"
- > pages (and their code). Then, depending upon which of
- > my user groups is running the app, it could just insert th
- > appropriate pages.

Just the controls, not the code can be copy/paste. Did you try the example I referred you to with some sample code in the form?

Without knowing what commonality your pages and controls have it's difficult to suggest the best approach. But I strongly suspect the "WithEvents Class" method will serve you very well. Just one Event routine for all your buttons, even 500 or even if you don't know how many in advance. This might route to appropriate routines in normal modules depending on [say] which button was clicked. Minimal code in your form, and no need to worry about adding or copying code at runtime.

- > 3. Finally, as I got started on this entire app as a stop-gap

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- > measure (and it has since grown into an app that is in use
- > full-time by 30+ people), it is probably suffering from all
- > kinds of problems due to my not releasing memory in the
- > correct manner. Quite frankly, I don't understand how
- > or when such things need to occur, and feel overwhelmed
- > about how to even START on figuring this out.

Without any idea of what you are doing difficult to comment. In general all objects var's should be released when not needed, eg public vars stay in scope when the app terminates, so set myOb = nothing first. BUT if you haved used any like this:

```
Set oApp = Create(myApp)
Set oAppThing = oApp.Add some-App-thing
```

then release in this order

```
oAppThing.close
Set oAppThing = Nothing
oApp.Quit
Set oApp = Nothing
```

- > Can you give me any advice for where to go for good
- > info on determining if memory is being cleared correctly?
- > Is that something as easy as looking to see how much
- > memory is available, running and exiting an app, and re-
- > checking how much memory is available? Or, do you
- > use some third-party app that can "watch" your program
- > run?

Off the top of my head I can't think where to direct you. Best avoid problems in the first place. I suspect there are many in this group better qualified to answer.

I can though recommend you to the .excel.programming group. It's obviously geared to Excel but it's vast covering lots of generic vba, including your issues. There are many there far more expert than I.

Explain your Multipage problem, be specific with some detail of what commonality and differences there are between both pages and page controls, eg buttons 10-10-20 of 50 on Page(0) do similar to buttons 10-20 of 50 on Page(1) except .... I'll be surprised if you don't receive ideas and a good example of how to create a WithEvents Class specific to your needs. Not sure how many are familiar with the copy / paste controls method, so if appropriate include a copy of the link I gave earlier with something like - "I'm thinking of using the method described here to copy multipage pages + controls".

Ask about releasing memory issues separately though you would need to be a bit more specific to get useful answers.

Good luck.

Now to turn to my own issues in this thread which I've barely begun to address!

Peter T

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• **References:**

- ◆ **[Programatically design a form](#)**
    - ◇ *From:* Peter T
  - ◆ **[Re: Programatically design a form](#)**
    - ◇ *From:* J French
  - ◆ **[Re: Programatically design a form](#)**
    - ◇ *From:* Peter T
  - ◆ **[Re: Programatically design a form](#)**
    - ◇ *From:* Ken Halter
  - ◆ **[Re: Programatically design a form](#)**
    - ◇ *From:* Patrick Pirtle
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