

CoCoA-5 - Feature #464

Emacs UI: split horizontally instead of vertically?

11 Mar 2014 11:51 - John Abbott

Status:	Closed	Start date:	11 Mar 2014
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	EmacsUI	Estimated time:	10.00 hours
Target version:	CoCoA-5.1.1 Seoul14	Spent time:	6.70 hours
Description The students in Alg Comp would like to be able to have CoCoA source file on the left, and the running interpreter on the right, rather than having one above the other. This makes sense as screens are now usually much wider than they are high and long lines (in CoCoA source files) are relatively uncommon. What to do? (A) we could add a new function which makes a horizontal split (B) we could modify the existing functions so that they split horizontally			
Related issues: Related to CoCoA-5 - Bug #397: EMACS UI: fix windows splitting			
		Closed	02 Aug 2013

History

#1 - 11 Mar 2014 11:59 - John Abbott

- Status changed from New to In Progress
- % Done changed from 0 to 10

Here is a function which works a bit like M-x cocoa5 but makes a horizontal split:

```
(defun cocoa5-side-by-side ()
  "Place cocoa5 source and shell buffers side by side"
  (interactive)
  (cocoa5-shell-check-process)
  (cocoa5-shell-check-window)
  (delete-other-windows)
  (split-window-horizontally)
  (switch-to-buffer-other-window "*cocoa5*")
  (other-window 1)
)
```

I'm quite sure this can be cleaned up considerably; I just wanted a "proof of concept".

At the moment it is bound to a key sequence (active in a cocoa5 buffer). What key sequence would be best? I had wanted to bind C-c C-| but emacs complained that pipe was not allowed.

#2 - 11 Mar 2014 12:14 - John Abbott

Here are some other design ideas

1. make the current functions choose automatically between vert/horiz split (*e.g.* based on window width)
2. let the user set/toggle a global variable which says whether to split vert/horiz

I wonder what the KISS design would be...?

JAA comments:

- would the global variable be remembered between Emacs sessions? If so, how?
- on the whole I'm sceptical about "automatics" (unless there's an easy override).

#3 - 11 Mar 2014 12:58 - John Abbott

Here are some emacs fns which might be useful:

window-body-width width of the text area

window-body-height height of the text area

#4 - 11 Mar 2014 13:02 - John Abbott

I found the following nice Emacs function

```
(defun rotate-split ()
  (interactive)
  (let ((root (car (window-tree))))
    (if (listp root)
        (let* ((w1 (nth 2 root))
               (w2 (nth 3 root))
               (b1 (window-buffer w1))
               (b2 (window-buffer w2)))
          (cond ((car root) ; currently vertically split
                 (delete-window w2)
                 (set-window-buffer (split-window-horizontally) b2))
                (t ; currently horizontally split
                 (delete-window w1)
                 (set-window-buffer (split-window-vertically) b1))))
        (message "Root window not split"))))
```

The URL was <http://emacs.1067599.n5.nabble.com/rotate-split-windows-td64770.html>

It passed some simple tests in Emacs 23.1; some people reported problems with Emacs 21.3

#5 - 11 Mar 2014 14:56 - Anna Maria Bigatti

I think the default should be horizontal.
I can make the hor/ver toggle available in the menu.
It can be set for all session using the "CoCoA - Preferences" menu.

Note by JAA it should be easy to modify cocoa5 so that it splits horizontally if given an argument (e.g. C-u M-x cocoa5)

#6 - 11 Mar 2014 17:21 - John Abbott

I think using the rotate-split function is probably the best solution; it is quite general and might even be useful outside the CoCoA context :-)

I want to check to make sure it doesn't do anything strange if there are more than 2 windows in the frame, and also if the frame is a funny shape (e.g. tall & thin, or short & wide).

Not yet sure what key binding to use (we can define a cocoa5 specific key binding).

#7 - 12 Mar 2014 13:07 - John Abbott

If we have a global variable, we could make it 3-state: horizontal-split, vertical-split or auto.

If we do this, we must decide what auto means (e.g. if the window is wider than 119 then do vertical-split otherwise horizontal-split). Indeed auto could be indicated by an integer value (to be used instead of the rather arbitrary 119)

What do you think?
[perhaps my idea is not very KISS]

#8 - 02 Apr 2014 17:33 - Anna Maria Bigatti

- Target version set to CoCoA-5.1.0 Easter14

#9 - 17 Apr 2014 18:56 - John Abbott

- % Done changed from 10 to 30
- Estimated time set to 10.00 h

#10 - 17 Apr 2014 18:56 - John Abbott

- Target version changed from CoCoA-5.1.0 Easter14 to CoCoA-5.1.1 Seoul14

#11 - 26 Jun 2014 08:24 - Anna Maria Bigatti

Apparently (on Aquamacs) it splits horizontally or vertically depending on the width of the window. That may be confusing when changing the size of the window after the first split (causes an extra split).

Maybe we should have a user flag in the CoCoA-Menu saying "horizontal/vertical split" to be used independently on the window shape. Default should be "horizontal".

#12 - 26 Jun 2014 12:03 - John Abbott

OK for a menu flag which indicates the preferred way of splitting.

Some while ago I added to cocoa5.el the fn cocoa5-rotate-split; it is not perfect (sometimes it leaves the cursor in the wrong place). Someone(Anna?) has added it to cocoa5-mode-map.

#13 - 28 Jun 2014 20:48 - Anna Maria Bigatti

- *Status changed from In Progress to Resolved*
- *Assignee set to Anna Maria Bigatti*
- *% Done changed from 30 to 80*

I think I fixed the "random" behaviour for the window splitting.
I added the choice in the CoCoA-5 menu and the flag in the customizable user "Preferences"

#14 - 01 Jul 2014 17:02 - Anna Maria Bigatti

I slightly improved the menu so that it indicates which splitting is defined.
(with a tick next to side-by-side or to top-bottom)
I think it is quite nice :-)
just cvs-ed

#15 - 01 Jul 2014 17:02 - Anna Maria Bigatti

- *Status changed from Resolved to Feedback*
- *% Done changed from 80 to 90*

#16 - 03 Sep 2014 13:40 - John Abbott

- *Status changed from Feedback to Closed*
- *% Done changed from 90 to 100*