

CoCoA-5 - Bug #1325

Emacs UI: emacs does not recognize "until" as marking the end of a "repeat" block

01 Oct 2019 17:42 - John Abbott

Status:	Closed	Start date:	01 Oct 2019
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	EmacsUI	Estimated time:	1.51 hour
Target version:	CoCoA-5.3.0	Spent time:	1.70 hour
<b>Description</b> When typing in code into a CoCoA-5 buffer, emacs does not recognise that the keyword <b>until</b> as marking the end of a <b>repeat</b> block. So if I then try to use C-c C-e to close another block (e.g. fn defn) then emacs's block nesting code thinks the repeat block is still open, and all other blocks are then off-by-one.			

History

#1 - 25 Oct 2019 15:27 - John Abbott

Here is a test case:

```
define john(n)
  ans := 0;
  repeat
    ans := ans + 1;
    n := n-1;
  until n < 0;
  return ans;
[[now ask Emacs to end the function C-c C-e]]
```

#2 - 25 Oct 2019 15:39 - John Abbott

- Status changed from New to Resolved
- % Done changed from 0 to 80

I think I may have solved this (without actually understanding what the emacs-lisp code does).

I have changed the definition of **cocoa5-endkeywords-list** so that it recognizes **until** and **Until** as end-keywords. A quick test suggests that this works OK.

As far as I can see the emacs UI is quite simplistic, and will not indicate any problem if the start and end keywords do not match (e.g. if blah blah endwhile is regarded as an opened-and-closed block).

#3 - 25 Oct 2019 15:57 - John Abbott

- Assignee set to John Abbott

I now see that in **cocoa5.el** there are two very similar constants: **cocoa5-endkeywords-list** and **cocoa5-end-block-re**.

The only differences between them that I can see is that **cocoa5-end-block-re** includes **until** while the other does not, **and** **cocoa5-end-block-re** matches only whole words (*i.e.* it matches only inside **\<** and **\>**).

It looks like **\*cocoa5-autoindent-lines-re** contains considerable redundancy because it contains both **cocoa5-endkeywords-list** and **cocoa5-noindent-re**; probably we can remove **cocoa5-endkeywords-list** from it.

There is similar redundancy around line 376 in the very long definition of **cocoa5-font-lock-keywords**.

#### **#4 - 26 Oct 2019 09:11 - John Abbott**

- *Status changed from Resolved to Feedback*

- *% Done changed from 80 to 90*

- *Estimated time set to 1.44 h*

I have made the changes which I think are right for having **until** recognized as an end-keyword.

I have tried to clean up the "self-documenting" code a bit, and hope that I've done the right changes.

Some simple tests pass. CVS-ed. Hoping Anna will also check this revised version.

#### **#5 - 26 Oct 2019 09:53 - Anna Maria Bigatti**

- *Status changed from Feedback to Closed*

- *Target version changed from CoCoA-5.4.0 to CoCoA-5.3.0*

- *% Done changed from 90 to 100*

- *Estimated time changed from 1.44 h to 1.51 h*

tried. works. closed.