Redmine - Feature #1689

Tab Width

2008-07-28 00:16 - Chris Miller

Status:	Reopened		**Start date:**	2008-07-28
Priority:	Low		**Due date:**	
Assignee:			**% Done:**	0%
Category:	SCM		**Estimated time:**	0.00 hour
Target version:				
Resolution:				

Description

There should be a setting (somewhere) to allow the site administrator, or even better, individual project owners, to change the tab width as displayed in the repository source browser. Right now it's set at something crazy like 6 or 8 characters, some prefer it at 2, others at 4, still others at 5. The ability to change the tab width would let people control the code display. If this could be snuck into 0.8 that'd be awesome. If not, oh well, there's always hope for 0.9!

Related issues:

Has duplicate Redmine - Feature #3065: "Tab Size" setting	**Closed**	**2009-03-28**
Has duplicate Redmine - Feature #4217: Allow Changing Tab-Length for Code View	**Closed**	**2009-11-14**

History

#1 - 2008-07-28 11:50 - Grzegorz Adam Hankiewicz

For those of us using vim modelines it would be great if they were parsed, allowing a per-file display configuration. Looking for *tabstop=*X** in the first few lines of the file doesn't seem too hard.

#2 - 2008-08-05 09:52 - Chris Miller

Grzegorz Adam Hankiewicz wrote:

> For those of us using vim modelines it would be great if they were parsed, allowing a per-file display configuration. Looking for *tabstop=*X** in the first few lines of the file doesn't seem too hard.

Get yer own feature request! ;-) Yeah, that's cool, but I think that'd be a completely different feature request. I'm just asking for a little drop-down combo box in the project settings page to set a tab width. You want a feature that looks for Vim stuff, which is a bit different than my request.

#3 - 2008-08-13 15:38 - Thomas Lecavelier

- Target version deleted (0.8)

The target version field has to be set when it will **actually** part of the target release.

#4 - 2009-01-09 09:19 - Chris Miller

- Assignee set to Thomas Lecavelier

Well, 0.8 came and went, can we please try for 0.9?

I use a tabstop of 4 in all my projects, so at very least tell me where the tabstop is defined so I can make a temporary fix by manually changing it for my installation!

#5 - 2009-01-09 12:18 - Thomas Lecavelier

- Status changed from New to Closed

- Assignee deleted (Thomas Lecavelier)

Hey, you see? I can play with statuses too...

-_-

#6 - 2009-01-09 20:53 - Chris Miller

Thomas Lecavelier wrote:

> Hey, you see? I can play with statuses too... [...]

That's not nice...

#7 - 2009-01-12 08:00 - youngseok yi

+1 for setting tab-width.
I think this feature is not implemented yet.

Dear Chris Miller. hope you to check SubmittingBugs
Dear Thomas Lecavelier. if it is not invalid request, how about to reopen?

#8 - 2009-01-12 08:32 - Chris Miller

- Status changed from Closed to Reopened

No, it is not done, so it should be either "open" or "wontfix".

I did some research into it, and I believe that browsers hardcode a tab character in a pre block to eight characters and it cannot be changed by any CSS or HTML attribute (I tried).

I believe the easiest way would be to replace every tab character with *n* spaces in the method on line 25 in source:tags/0.8.0/app/helpers/repositories_helper.rb however, I am unsure how to do this, and I'm also very unsure how to:

1. add a new field to the project model (an integer storing the desired tab width)
2. add stuff in the view to display the new setting so it can be changed by project managers
3. modify the method previously indicated to replace tabs with characters for display

I'm not a Ruby programmer, and I've attempted to learn Rails before only to come out of it massively confused, so I feel really helpless just standing here pointing and yelling "make magic things happen here!" If I did know how... I would give you a patch and not a feature request.

#9 - 2009-11-24 09:08 - Chris Miller

Just an update...

I have found that by modifying the following lines of code:

source:tags/0.8.7/app/helpers/application_helper.rb#L192

```
def syntax_highlight(name, content)
    type = CodeRay::FileType[name]
    type ? CodeRay.scan(content, type).html(:tab_width => 4) : h(content.gsub("\t"," "*4))
end
```

And

source:tags/0.8.7/lib/redmine/wiki_formatting/textile/formatter.rb#L58

```
CodeRay.scan($2, $1.downcase).html(:escape => false, :line_numbers => :inline, :tab_width => 4)
```

I was able to hard-code my site to have a tab width of four characters. Mind you, this isn't a tab-stop - a lot of the time things don't quite line up, but at least they're only off by at most three characters! It's a far sight better than before!

If someone with more Ruby-fu could extract that to a kind of configurable variable we might have a worthwhile patch on our hands.

#10 - 2009-12-18 02:53 - Chris Miller

I have found an even better way of converting tabs to spaces. This respects tab *stops*, which is the concept that a tab character doesn't necessarily expand to 4 (or 3, or 2, or 6, or whatever) spaces, but advances the line to a predetermined tab stop. Tabstops are generally at 4, 8, 12, 16, 20, etc.

Enough preaching about the Holy Tabstop. Here's how to make it work:

This uses the GNU CoreUtils expand command. This works on files, so I just use Ruby's Tempfile to create a temporary file, then delete it when we're done. You do need to add this line of code to the beginning of the file, however:

```
require 'tempfile'
```

Now, add the instructions to your syntax highlighter to make it expand tabs to spaces:

```
def syntax_highlight(name, content)
    type = CodeRay::FileType[name]
    t = Tempfile.new("expandfile")
    t.syswrite(content)
    content = `expand -t 4 #{t.path}`
```

```
      t.close
      t.delete
      type ? CodeRay.scan(content, type).html : h(content)
end
```

Same thing applies to Wiki formatting. (don't forget to include the require statement there, either!)

This also works quite well with the Ultraviolet plugin.

#11 - 2009-12-19 00:06 - Chris Miller

Now, even more cool!

Add the following to lib/redmine/core_ext/string/conversions.rb

```
        # Expand tabs to spaces
        def expand(tab_width=4)
          text = self.dup
          out = ''
          text.each_line do |line|
            column = 0
            line.each_char do |c|
              if c == "\t"
                next_tab_column = column + (tab_width - column % tab_width)
                while column < next_tab_column
                  out << " "
                  column += 1
                end
              elsif c == "\b"
                column += -1
              else
                column += 1
                out << c
              end
            end
          end
          out
        end
```

Now, instead of all that tempfile nonsense, you can simply use content.expand in app/helpers/application_helper.rb (or content.expand(4), or however many spaces you want your tabs to expand to).

#12 - 2010-03-21 09:42 - Kornelius Kalnbach

I'd say you just abandon tabs :)

But maybe a per-language setting would be okay. Ruby style is 2 spaces, C is 8, Python is 4, for example. Better than the current 8-for-all setting.

#13 - 2010-03-21 10:37 - Chris Miller

Kornelius Kalnbach wrote:

> I'd say you just abandon tabs :)

Over my dead body.

> But maybe a per-language setting would be okay. Ruby style is 2 spaces, C is 8, Python is 4, for example. Better than the current 8-for-all
> setting.

I don't know what planet you live on, but I have yet to actually meet a living C programmer who uses a tab-width of 8. All the programmers I know use a tab width of 4, though I find that a tab stop of 2 for C is actually quite nice and compact while using smaller laptop screens.

Having a per-project per-language setting seems important to me. But this is a system that would require additional database tables and rot like that, so even if I do decide to take up a patch, it'll certainly be one of those things that would only ever be a candidate for a 0.x release, and never a 0.9.x release. I absolutely believe that it should be part of the Redmine system by default, as source code with badly aligned tabs can decrease readability quite dramatically.

#14 - 2010-04-01 20:28 - Kornelius Kalnbach

It this is such a hot topic, I'm happy to stay out of the discussion. CodeRay provides the option, so it's Redmine's decision how to implement it.

chris k: Earth.

#15 - 2011-12-15 12:21 - Andrea Agosti

There is a chance that this will be solved? I'd like to have the possibility to set tab at 4 without hacking the code.

#16 - 2012-02-15 13:59 - Mario Luzeiro

+Vote for this! I'm using tab size 2

#17 - 2015-02-17 06:57 - Joo Yeon Hwang

I've changed tab width at source code view. But, at diff view mode, it still shows me the tab width of 8. How can I change the tab width to 4 at diff view.