

 $\strut \$ 

 $\startvimcolorscheme 7$ 

 $\verb|\typevimfile| 8$ 

## 1 User Manual

CONTEXT has an excellent pretty printing capabilities for many languages. The code for pretty printing is written in  $T_EX$ , and due to catcode jugglery verbatim typesetting is perhaps the trickiest part of  $T_EX$ . This makes it difficult for a "normal" user to define syntax highlighting rules for a new language. This module, takes the onus of defining syntax highlighting rules away from the user and uses VIM editor to generate the syntax highlighting. There is a helper 2context.vim script to do the syntax parsing in VIM. This is a stop-gap method, and hopefully with LUATEX, things will be much easier.

The main macro of this module is \definevimtyping. The best way to explain it is by using an example. Suppose you want to pretty print ruby code in CONT<sub>E</sub>XT. So you can do

```
\definevimtyping [RUBY] [syntax=ruby]
after which you can get ruby highlighting by
  \startRUBY
  ....
  \stopRUBY

For example
#! /usr/bin/ruby
# This is my first ruby program
puts "Hello World"
This was typed as
  \definevimtyping [RUBY] [syntax=ruby]
  \startRUBY
  #! /usr/bin/ruby
  # This is my first ruby program
  puts "Hello World"
  \stopRUBY
```

The typing can be setup using \setupvimtyping.

```
\setupvimtyping [..,._{=}^{*},...]
                = IDENTIFIER
  syntax
   colorscheme = IDENTIFIER
   space
               = yes on no
               = NUMBER
   tab
               = NUMBER
   start
               = NUMBER
   stop
   numbering
               = yes <u>no</u>
                = NUMBER
   numberstvle =
   numbercolor = IDENTIFIER
   before
               = COMMAND
               = COMMAND
   after
```

Here syntax is the syntax file in VIM for the language highlighting that you want. See :he syntax.txt inside VIM for details. colorscheme provides the syntax highlighting for various regions. Right now, two colorschemes are defined. The default colorscheme is based on on ps\_color.vim colorscheme in VIM, and the blackandwhite colorscheme is based on print\_bw.vim. If there is a particular colorscheme that you will like, you can convert it into CONTEXT. space=(yes|on|no) makes the space

significant, visible, and insignificant respectively. tab specifies the number of spaces a tab is equivalent to. It's default value is 8. start and stop specify which lines to read from a file. These options only make sense for highlighting files and should not to be set by \setupvimtyping. numbering enables line numbering, and step specifies which lines are numbered. numberstyle and numbercolor specify the style and color of line numbers. By default the numbers are placed on the left. The location of the numbers can be configured using numbercommand option.

A new typing region can be define using \definevimtyping.

```
\definevimtyping [.¹.] [.².]
OPTIONAL

1 IDENTIFIER

2 inherits from \setupvimtyping
```

Minor changes in syntax highlighting can be made easily. For example, Mojca likes 'void' to be bold in C programs. This can be done as follows

```
\definevimtyping [C] [syntax=c,numbering=on]
   \startvimcolorscheme[default]
   \definevimsyntax
     [Type]
     [style=boldmono]
   \definevimsyntax
     [PreProc]
     [style=slantedmono]
   \stopvimcolorscheme
   \startC
   #include <stdio.h>
   #include <stdlib.h>
   void main()
      printf("Hello World\n") ;
      return;
   \stopC
which gives
#include <stdio.h>
#include <stdlib.h>
void main()
{
   printf("Hello World\n");
   return;
```

1 2

3

4 5

6

7

8 }

The second command provided by this module is **\definetypevimfile** for typesetting files. The syntax of this command is

```
\definetypevimfile [.1.] [.2.]
OPTIONAL

1 IDENTIFIER

2 inherits from \setupvimtyping
```

For example, to pretty print a ruby file you can do

```
\definetypevimfile[typeRUBY] [syntax=ruby]
```

after which one can use

```
\typeRUBY[option]{rubyfile}
```

We hope that this is sufficient to get you started. The rest of this document gives the implementation details of the module. If you want to change something, read ahead.

## 2 Module Details

The syntax highlighting of the source here is done using t-vim module. There is a bug in the module due to which line numberings for different filetypes use the same counter. In the source round-about method to correct this. Right now, in case someone needs this module for numbering more than one filetype, let me know, and I will try to iron out the bug.

```
1 \writestatus {loading} {Context Module for ViM Sytax Highlighting}
```

- 2 \startmodule[vim]
- 3 \unprotect
- 4 \definesystemvariable {vs} % Vim Syntax

First of all we take care of bold monotype. By default, CONTEXT uses latin modern fonts. If you want to get bold monotype in latin modern, you need to use modern-base typescript. For example:

```
\usetypescript[modern-base] [texnansi] \setupbodyfont[modern]
\starttext
{\tt\bf This is bold monotype}
\stoptext
```

CONTEXT does not provide any style alternative for bold monotype and slanted monotype, so we provide one here. These will only work if your font setup knows about bold and slanted monotype.

```
5 \definealternativestyle [\v!bold\v!mono,\v!mono\v!bold] [\ttbf] []
6 \definealternativestyle [\v!slanted\v!mono,\v!mono\v!slanted] [\ttsl] []
```

\startvimc.. To start a new vim colorscheme.

- 7 \def\startvimcolorscheme[#1]%
- 8 {\pushmacro\vimcolorscheme
- 9 \edef\vimcolorscheme{#1}}
- 10 \def\stopvimcolorscheme
- 11 {\popmacro\vimcolorscheme}

\definevim..

These macros should always occur inside a \startvimcolorschme ...\stopvimcolorscheme pair. The \definevimsyntax macro defines syntax highlighting rules for VIM's syntax highlighting regions. It takes three arguments style, color and command. The most common VIM syntax highlighting regions are defined in the end of this file. The \definevimsyntaxsynonyms macro just copies the settings from another syntax highlighting region.

```
12 \def\definevimsyntax
13 {\dodoubleargumentwithset\dodefinevimsyntax}

14 \def\dodefinevimsyntax[#1]% [#2]
15 {\getparameters[\??vs\vimcolorscheme#1]} %[#2]
```

```
\def\definevimsyntaxsynonyms
       16
             {\dodoubleargumentwithset\dodefinevimsyntaxsynonyms}
       17
           \def\dodefinevimsyntaxsynonyms[#1][#2]%
       18
             {\copyparameters[\??vs\vimcolorscheme#1][\??vs\vimcolorscheme#2]
       19
                              [\c!style,\c!color,\c!command]}
      20
           This is just a placeholder macro. The 2context.vim script marks the highlightin reigions by
\vimsyntax
           \s[...]{...}. While typing the generated files, we locally redefine \s to \vimsyntax.
      21
           \def\vimsyntax[#1]#2%
             {\dostartattributes{\??vs\vimcolorscheme Normal}\c!style\c!color\empty%
      22
              \dostartattributes{\??vs\vimcolorscheme #1}\c!style\c!color\empty%
      23
              \getvalue{\??vs\vimcolorscheme #1\c!command}{#2}%
       24
       25
               \dostopattributes%
               \dostopattributes}
      26
```

\setupvimt.. There are three settings for \setupvimtyping: syntax, which tells VIM which syntax rules to use; \tag{tab}, which sets the tabstop in VIM; and space which takes care of spaces.

\typevimfile macro basically calls VIM with appropriate settings and sources the 2context.vim script. The result is slow, because parsing by VIM is slow. Do not use this method for anything larger than a few hundred lines. For large files, one option is to pre-prase them, and then typeset the result. We have not provided any interface for that, but it is relatively easy to implement.

Taking care of line-numbering is more tricky. We could not get \setuplinenumbering to work properly, so implement our own line-numbering mechanism. This is a bit awkward, since it places line-number after each ^M in the source file. So, if the source code line is larger than one typeset line, the line number will be on the second line. To do it correctly, we need to read lines from the vimsyntax file one-by-one. Our own mechanism for line-numbering is plain. Unlike CONTEXT's core verbatim highlighting, multiple blank lines are displayed and numbered.

```
27
    \def\setupvimtyping
      {\dosingleargument\getparameters[\??vs]}
28
29
    \def\typevimfile
      {\dosingleempty\dotypevimfile}
30
    \def\notypevimfile[#1][#2]#3%
31
32
      {\dotypevimfile[#1,#2]{#3}}
    \def\dotypevimfile[#1]#2%
33
      {\doiffileelse{#2}
34
       {\dodotypevimfile[#1]{#2}}
35
       {\reporttypingerror{#2}}}
36
    \def\saveandtypevimfile[#1]%
37
```

```
{\savevimbuffer
38
       \dotypevimfile[#1]{\TEXbufferfile{vimsyntax}}}
39
    \let\savevimbuffer\donothing
    \beginLUATEX
41
    \def\savevimbuffer{\savebuffer[vimsyntax]}
    \endLUATEX
43
    \def\dodotypevimfile[#1]#2%
44
45
      {\@@vsbefore
       \bgroup
46
47
       \initializevimtyping{#1}
       \runvimsyntax{#2}
48
        % The strut is needed for the output to be the same when not using
49
50
        % numbering. Otherwise, multiple par's are ignored. We need to figure out
        % a mechanism to imitate this behaviour even while using line numbering.
51
        \strut%else the first line is shifted to the left
52
        \input #2-vimsyntax.tmp\relax%
54
       \egroup
55
       \@@vsafter}
56
    \makecounter{vimlinenumber}
57
    \def\doplacevimlinenumber
      {%Always place the first linenumber
58
       \showvimlinenumber
59
       %Calculate step in futute
60
       \let\placevimlinenumber\dodoplacevimlinenumber
61
       \pluscounter{vimlinenumber}}
62
    \def\dodoplacevimlinenumber
63
      {\ifnum\numexpr(\countervalue{vimlinenumber}/\@@vsstep)*\@@vsstep\relax=%
64
65
             \numexpr\countervalue{vimlinenumber}\relax
          \showvimlinenumber
66
      \fi
67
       \pluscounter{vimlinenumber}}
68
    \def\showvimlinenumber
69
      {\@@vsnumbercommand
70
          {\dostartattributes\??vs\c!numberstyle\c!numbercolor\empty
           \countervalue{vimlinenumber}
72
           \dostopattributes}}
73
```

```
75
              {\setupvimtyping[#1]
        76
               %Make sure that stop is not empty
               \doifempty{\00vsstop}{\setvalue{\00vsstop}{0}}
        77
               \doifelse{\@@vsstart}{\v!continue}
        78
        79
                {\setvalue{00vsstart}{\countervalue{vimlinenumber}}}
                {\setcounter{vimlinenumber}{\doifnumberelse{\00vsstart}{\00vsstart}{1}}}
        80
        81
               \whitespace
              %\page[\v!preference]} gaat mis na koppen, nieuw: later \nobreak
        82
               \setupwhitespace[\v!none]%
        83
               \obeylines
        84
               \ignoreeofs
        85
        86
               \ignorespaces
        87
               \activatespacehandler\@@vsspace
               \let\s=\vimsyntax
        88
               \def\tab##1{\dorecurse{##1}{\space}}% TODO: allow customization
        89
        90
               \def\vimcolorscheme{\@@vscolorscheme}
        91
               \processaction[\@@vsnumbering]
                      \v!on=>\let\placevimlinenumber\doplacevimlinenumber,
        92
                     \v!off=>\let\placevimlinenumber\relax,
        93
                \s!unknown=>\let\placevimlinenumber\relax,
        94
        95
                \s!default=>\let\placevimlinenumber\relax,
               ٦
        96
        97
               \def\obeyedline{\placevimlinenumber\par\strut}
               }
        98
            \def\shellescapedquote{\letterbackslash\letterdoublequote}
        99
       100
            \def\runvimsyntax#1
       101
               {\executesystemcommand
                   {mtxrun --verbose --noquote bin:vim
       102
                       "-u NONE % No need to read unnessary configurations
       103
                        -е
                                 % run in ex mode
       104
       105
                        -C
                                 % Set compatibile
                                 % No swap
       106
                        -n
       107
                        -c \shellescapedquote set tabstop=\@@vstab \shellescapedquote\space
                        -c \shellescapedquote syntax on\shellescapedquote\space
       108
                        -c \shellescapedquote set syntax=\@@vssyntax\shellescapedquote\space
       109
       110
                        -c \shellescapedquote let contextstartline=\@@vsstart\shellescapedquote\space
                        -c \shellescapedquote let contextstopline=\@@vsstop\shellescapedquote
            \space
       111
                        -c \shellescapedquote source kpse:2context.vim\shellescapedquote\space
       112
       113
                        -c \shellescapedquote wqa\shellescapedquote\space
                         \shellescapedquote#1\shellescapedquote\space "}}
       114
            This macro allows you to define new file typing commands. For example
\definetyp..
               \definetypevimfile[typeRUBY] [syntax=ruby]
            after which one can use
               \typeRUBY[option]{rubyfile}
```

\def\initializevimtyping#1

74

```
\def\definetypevimfile
       115
               {\dodoubleargument\dodefinetypevimfile}
       116
             \def\dodefinetypevimfile[#1][#2]%
       117
       118
               {\unexpanded\setvalue{#1}{\dodoubleempty\notypevimfile[#2]}}
             This macro allows you to pretty print code snippets. For example
\definevim..
                \definevimtyping [RUBY] [syntax=ruby]
                \startRUBY
                # This is my first ruby program
                puts "Hello World"
                \stopRUBY
             gives
             # This is my first ruby program
             puts "Hello World"
             \def\definevimtyping
       119
               {\dodoubleargument\dodefinevimtyping}
       120
             \def\dodefinevimtyping[#1][#2]%
       121
               {\setevalue{\e!start#1}{\noexpand\dostartbuffer[vimsyntax] [\e!start#1] [\e!stop#1]}%
       122
                \setvalue{\e!stop#1}{\saveandtypevimfile[#2]}}
       123
             Some defaults.
       124
             \setupvimtyping
                        syntax=context,
       125
                         \c!tab=8,
       126
       127
                      \c!space=\v!yes,
       128
                       \c!start=1,
       129
                        \c!stop=0,
                     \c!before=,
       130
                      \c!after=,
       131
                  \c!numbering=\v!off,
       132
              \c!numbercommand=\inleft,
       133
                \c!numberstyle=\v!smallslanted,
       134
                \c!numbercolor=,
       135
                        \c!step=1,
       136
                   colorscheme=default,
       137
       138
               ]
             Pre-defined Syntax: This is based on ps_color.vim, which does not use any bold typeface.
```

VIM uses hex mode for setting colors, I do not want to convert them to rgb values.

\startvimcolorscheme [default] 139

11 CONTEXT texexec

```
\setupcolor[hex]
140
141
     \definecolor
                   [vimsyntax!default!Special]
                                                     [h=907000]
     \definecolor [vimsyntax!default!Comment]
142
                                                     [h=606000]
    \definecolor [vimsyntax!default!Number]
                                                     [h=907000]
143
     \definecolor [vimsyntax!default!Constant]
144
                                                     [h=007068]
     \definecolor [vimsyntax!default!PreProc]
                                                     [h=009030]
    \definecolor [vimsyntax!default!Statement]
                                                     [h=2060a8]
146
    \definecolor [vimsyntax!default!Type]
                                                     [h=0850a0]
147
148
    \definecolor [vimsyntax!default!Todo]
                                                     [h=e0e090]
    \definecolor [vimsyntax!default!Error]
                                                     [h=c03000]
149
    \definecolor
                   [vimsyntax!default!Identifier]
                                                     [h=a030a0]
150
     \definecolor [vimsyntax!default!SpecialKey]
                                                     [h=1050a0]
151
152
    \definecolor [vimsyntax!default!Underline]
                                                     [h=6a5acd]
    \definevimsyntax
153
       [Normal]
154
155
       [\c!style=\tttf,\c!color=\maintextcolor]
     \definevimsyntax
157
       [Constant]
       [\c!style=\v!mono,\c!color=vimsyntax!default!Constant]
158
     \definevimsyntaxsynonyms
159
       [Character, Boolean, Float]
160
       [Constant]
161
     \definevimsyntax
162
       [Number]
163
       [\c!style=\v!mono,\c!color=vimsyntax!default!Number]
164
     \definevimsyntax
165
       [Identifier]
166
       [\c!style=\v!mono,\c!color=vimsyntax!default!Identifier]
167
168
     \definevimsyntaxsynonyms
       [Function]
169
170
       [Identifier]
171
     \definevimsyntax
172
       [Statement]
       [\c!style=\v!mono,\c!color=vimsyntax!default!Statement]
173
174
     \definevimsyntaxsynonyms
       [Conditional, Repeat, Label, Operator, Keyword, Exception]
175
```

```
[Statement]
176
     \definevimsyntax
177
       [PreProc]
178
       [\c!style=\v!mono,\c!color=vimsyntax!default!PreProc]
179
     \definevimsyntaxsynonyms
180
       [Include, Define, Macro, PreCondit]
181
       [PreProc]
182
     \definevimsyntax
183
       [Type,StorageClass, Structure, Typedef]
184
185
       [\c!style=\v!mono, \c!color=vimsyntax!default!Type]
     \definevimsyntax
186
187
       [Special]
188
       [\c!style=\v!mono,\c!color=vimsyntax!default!Special]
189
     \definevimsyntax
       [SpecialKey]
190
       [\c!style=\v!mono,\c!color=vimsyntax!default!SpecialKey]
191
192
     \definevimsyntax
       [Tag, Delimiter]
193
       [\c!style=\v!mono]
194
     \definevimsyntax
195
       [Comment, SpecialComment]
196
       [\c!style=\v!mono,\c!color=vimsyntax!default!Comment]
197
     \definevimsyntax
198
199
       [Debug]
       [\c!style=\v!mono]
200
     \definevimsyntax
201
       [Underlined]
202
       [\c!style=\v!mono,\c!command=\underbar]
203
     \definevimsyntax
204
       [Ignore]
205
       [\c!style=\v!mono]
206
     \definevimsyntax
207
208
       [Error]
       [\c!style=\v!mono,\c!color=vimsyntax!default!Error]
209
```

```
\definevimsyntax
210
211
       [Todo]
       [\c!style=\v!mono,\c!color=vimsyntax!default!Todo]
212
     \stopvimcolorscheme
213
     \startvimcolorscheme[blackandwhite]
214
     \definevimsyntax
215
216
       [Normal]
217
       [\c!style=\tttf,\c!color=\maintextcolor]
218
     \definevimsyntax
       [Constant]
219
       [\c!style=\v!mono,\c!color=]
220
221
     \definevimsyntaxsynonyms
       [Character, Boolean, Float]
222
       [Constant]
223
     \definevimsyntax
224
225
       [Number]
226
       [\c!style=\v!mono,\c!color=]
227
     \definevimsyntax
228
       [Identifier]
       [\c!style=\v!mono,\c!color=]
229
    \definevimsyntaxsynonyms
230
       [Function]
231
       [Identifier]
232
    \definevimsyntax
233
234
       [Statement]
       [\c!style=\v!mono\v!bold,\c!color=]
235
     \definevimsyntaxsynonyms
236
       [Conditional, Repeat, Label, Operator, Keyword, Exception]
237
       [Statement]
238
     \definevimsyntax
239
240
       [PreProc]
       [\c!style=\v!bold\v!mono,\c!color=]
241
```

```
\definevimsyntaxsynonyms
242
       [Include, Define, Macro, PreCondit]
243
       [PreProc]
244
245
     \definevimsyntax
       [Type,StorageClass, Structure, Typedef]
246
       [\c!style=\v!bold\v!mono, \c!color=]
247
     \definevimsyntax
248
       [Special]
249
       [\c!style=\v!mono,\c!color=]
250
     \definevimsyntax
251
       [SpecialKey]
252
       [\c!style=\v!mono,\c!color=]
253
     \definevimsyntax
254
255
       [Tag, Delimiter]
256
       [\c!style=\v!mono,\c!color=]
     \definevimsyntax
257
258
       [Comment, SpecialComment]
       [\c!style=\v!slanted\v!mono,\c!color=]
259
260
     \definevimsyntax
261
       [Debug]
       [\c!style=\v!mono,\c!color=]
262
     \definevimsyntax
263
       [Underlined]
264
       [\c!style=\v!mono,\c!color=,\c!command=\underbar]
     \definevimsyntax
266
267
       [Ignore]
       [\c!style=\v!mono,\c!color=]
268
     \definevimsyntax
269
270
       [\c!style=\v!mono,\c!color=,\c!command=\overstrike]
271
     \definevimsyntax
272
273
       [Todo]
       [\c!style=\v!mono,\c!command=\inframed]
274
```

```
\stopvimcolorscheme
275
276
     \protect
     \stopmodule
     An example usage:
    \doifnotmode{demo}{\endinput}
278
     \setupcolors[state=start]
279
     \usetypescript[modern-base][texnansi]
280
281
     \setupbodyfont[modern,10pt]
282
     \starttext
    \title{Matlab Code Listing -- Color}
    \definevimtyping [MATLAB] [syntax=matlab]
284
    \startMATLAB
285
    function russell_demo()
286
287 r = 3; c = 4; p = 0.8; action_cost = -1/25;
    obstacle = zeros(r,c); obstacle(2,2)=1;
    terminal = zeros(r,c); terminal(1,4)=1; terminal(2,4)=1;
289
290
    absorb = 1;
    wrap_around = 0;
291
    noop = 0;
292
293
    T = mk_grid_world(r, c, p, obstacle, terminal, absorb, wrap_around, noop);
    nstates = r*c + 1;
294
    if noop
295
296
      nact = 5;
297
    else
      nact = 4;
298
299
    end
    R = action_cost*ones(nstates, nact);
300
    R(10,:) = 1;
    R(11,:) = -1;
302
    R(nstates,:) = 0;
303
304
    discount_factor = 1;
    V = value_iteration(T, R, discount_factor);
305
```

```
Q = Q_from_V(V, T, R, discount_factor);
306
    [V, p] = \max(Q, [], 2);
307
    use_val_iter = 1;
308
309
     [p,V] = policy_iteration(T, R, discount_factor, use_val_iter);
310
    \stopMATLAB
    \title{Lua Code Listing -- Black and White}
311
312
    \definevimtyping [LUA] [syntax=lua,colorscheme=blackandwhite]
313
    \startLUA
    -- version : 1.0.0 - 07/2005
314
    -- author
                 : Hans Hagen - PRAGMA ADE - www.pragma-ade.com
315
    -- copyright : public domain or whatever suits
316
317
    -- remark
                : part of the context distribution
    -- TODO: name space for local functions
318
    -- loading: scite-ctx.properties
319
    -- generic functions
320
321
    local crlf = "\n"
322
    function traceln(str)
        trace(str .. crlf)
323
         io.flush()
324
    end
325
    table.len = table.getn
326
327
    table.join = table.concat
    function table.found(tab, str)
328
         local 1, r, p
329
         if string.len(str) == 0 then
330
             return false
331
         else
332
             l, r = 1, table.len(tab)
333
             while l \le r do
334
335
                 p = math.floor((1+r)/2)
                 if str < tab[p] then
336
337
                     r = p - 1
```

```
elseif str > tab[p] then
338
339
                       1 = p + 1
340
                  else
                      return true
341
                  \quad \text{end} \quad
342
343
              end
              return false
344
          end
345
346
     end
347
     function string.grab(str, delimiter)
         local list = {}
348
349
         for snippet in string.gfind(str,delimiter) do
350
              table.insert(list, snippet)
351
         end
352
         return list
353
     end
354
     function string.join(list, delimiter)
         local size, str = table.len(list), ''
355
         if size > 0 then
356
              str = list[1]
357
358
              for i = 2, size, 1 do
359
                  str = str .. delimiter .. list[i]
360
              end
361
         end
         return str
362
363
     end
364
     function string.spacy(str)
         if string.find(str,"^%s*$") then
365
              return true
366
367
         else
              return false
368
369
         end
370
     end
     function string.alphacmp(a,b,i) -- slow but ok
371
372
         if i and i > 0 then
              return string.lower(string.gsub(string.sub(a,i),'0','')) <</pre>
     string.lower(string.gsub(string.sub(b,i),'0',''))
373
374
         else
375
              return string.lower(a) < string.lower(b)
376
         end
377
     end
     function table.alphasort(list,i)
378
         table.sort(list, function(a,b) return string.alphacmp(a,b,i) end)
379
380
     end
```

```
function io.exists(filename)
381
         local ok, result, message = pcall(io.open,filename)
382
         if result then
383
             io.close(result)
384
385
             return true
         else
386
             return false
387
388
         end
389
     end
390
     function os.envvar(str)
         if os.getenv(str) ~= '' then
391
             return os.getenv(str)
392
         elseif os.getenv(string.upper(str)) ~= '' then
393
394
             return os.getenv(string.upper(str))
         elseif os.getenv(string.lower(str)) ~= '', then
395
             return os.getenv(string.lower(str))
396
397
         else
             return ''
398
         end
399
400
     end
     function string.expand(str)
401
         return string.gsub(str, "ENV%((%w+)%)", os.envvar)
402
403
     function string.strip(str)
404
405
         return string.gsub(string.gsub(str,"^%s+",''),"%s+$",'')
406
407
     function string.replace(original,pattern,replacement)
         local str = string.gsub(original,pattern,replacement)
408
            print(str) -- indirect, since else str + nofsubs
409
410
         return str -- indirect, since else str + nofsubs
411
     end
     \stopLUA
```

\stoptext

413

 $\begin{tabular}{ll} $$ \definety pevimfile & 10 \\ \definevim syntax & 7 \\ \definevim syntax synonyms & 7 \\ \definevim typing & 11 \\ \end{tabular}$ 

 $\strut \$ 

 $\startvimcolorscheme 7$ 

 $\verb|\typevimfile| 8$ 

 $\verb|\vimsyntax| 8$