The vomit Class

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Abstract

This class replaces characters with the emoji <u>\overline{\overlin</u>

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1 Introduction

The vomit class intercepts input lines with Lua callbacks and replaces every non-command character with the emoji ፟ It requires LuaLaTeX and the bxcoloremoji package.

2 Usage

Basic usage:

\documentclass{vomit}
\begin{document}
Hello, world!
\end{document}

To temporarily disable vomit mode, use \stopvomit. To re-enable it, use \startvomit. After calling \startvomit, all non-command characters are replaced by the vomit emoji .

3 Implementation

```
5 %%
 6 %% The original source files were:
 7 %%
 8 %% vomit.dtx (with options: 'class')
9 %%
10 %% IMPORTANT NOTICE:
11 %%
12 %% For the copyright see the source file.
13 %%
14 %% Any modified versions of this file must be renamed
15 %% with new filenames distinct from vomit.cls.
16 %%
17 \ensuremath{\text{\%\%}} For distribution of the original source see the terms
18 %% for copying and modification in the file vomit.dtx.
20 %% This generated file may be distributed as long as the
21 %% original source files, as listed above, are part of the
22 %% same distribution. (The sources need not necessarily be
23 %% in the same archive or directory.)
24 \NeedsTeXFormat{LaTeX2e}
25 \ProvidesClass{vomit}[2025/09/02 v1.0 Universal Emoji Replacer Class]
26
27 \LoadClass{article}
28 \RequirePackage{bxcoloremoji}
29 \RequirePackage{luacode}
30
31 \begin{luacode*}
32 local function utf8_len(s)
   if type(s) ~= "string" then return 0 end
    if unicode and unicode.utf8 and unicode.utf8.len then
      local ok, v = pcall(unicode.utf8.len, s)
35
      if ok and v then return v end
36
37
    end
    if utf8 and utf8.len then
38
      local ok, v = pcall(utf8.len, s)
39
      if ok and v then return v end
40
41
    for _ in s:gmatch("[\frac{x}{1-127}194-244][\128-\191]*") do n = n + 1 end
44
    return n
45 \ {
m end}
46
47 local function utf8_bytepos(s, n)
    if n < 1 then return nil end
48
    if unicode and unicode.utf8 and unicode.utf8.offset then
49
      local ok, pos = pcall(unicode.utf8.offset, s, n)
50
51
      if ok then return pos end
52
    if utf8 and utf8.offset then
53
54
      local ok, pos = pcall(utf8.offset, s, n)
55
      if ok then return pos end
56
   end
   local i = 0
57
    for pos, _ in s:gmatch("()([%z\1-\127\194-\244][\128-\191]*)") do
```

```
i = i + 1
59
      if i == n then return pos end
60
61
    end
    return nil
62
63 \ {\rm end}
64
65 local function utf8_sub_chars(s, i, j)
    local len = utf8_len(s)
67
    if i < 1 then i = 1 end
   if j == nil or j > len then j = len end
68
   if i > j then return "" end
69
70 local b1 = utf8_bytepos(s, i)
    local b2next = utf8_bytepos(s, j+1)
71
    local b2 = (b2next and (b2next - 1)) or #s
72
    if not b1 then return "" end
73
    return string.sub(s, b1, b2)
74
75 end
76
77 local function trim(s)
    return (s:gsub("^%s+", ""):gsub("%s+$", ""))
79 end
80
81 local function vomitify_argument(text)
    local len = utf8_len(text)
82
    local result = {}
83
84
    for i = 1, len do
85
      local ch = utf8_sub_chars(text, i, i)
86
       if ch:match("^[%w%s%p]$") and not ch:match("^[{}\\]$") then
87
         table.insert(result, "\\coloremojicode{1F92E}")
88
89
        table.insert(result, ch)
90
91
       end
92
     end
93
94
    return table.concat(result)
95 end
97 local function process_command_arguments(line)
    98
       local cmd_name = cmd:match("\\(.+)")
99
       if cmd_name == "dummy" or cmd_name == "section" or cmd_name == "title" or
100
          {\tt cmd\_name} == "subsection" or {\tt cmd\_name} == "subsubsection" then
101
         local inner = arg:match("{(.*)}")
102
         if inner then
103
           local converted_inner = vomitify_argument(inner)
104
           return cmd .. "{" .. converted_inner .. "}"
105
106
107
       end
108
       return cmd .. arg
109
110
    return result
111
112 end
```

```
113
114 local function vomitify_text(line)
     if type(line) ~= "string" then
115
      return line
116
117
118
     if line:find("\\end{document}", 1, true) then
119
120
      return line
121
122
     local t = trim(line)
123
124
     if t:match("^%%") then
125
      return line
126
127
     end
128
     if t == "" then
129
130
      return line
131
     end
132
     if t:match("^{\w+{"}}) then
133
     return process_command_arguments(line)
134
135
136
     if t:match("^{\"}) then
137
      return line
138
139
140
141
     local len = utf8_len(line)
    local i = 1
142
    local res = {}
143
144
     while i <= len do
145
       local ch = utf8_sub_chars(line, i, i)
146
147
148
       if ch == "\\" then
         local cmd = ch
149
150
         local j = i + 1
151
         while j <= len do
           local nch = utf8_sub_chars(line, j, j)
152
           if nch:match("^[A-Za-z]$") then
153
154
             cmd = cmd .. nch
             j = j + 1
155
           else
156
             break
157
           end
158
159
         end
         if cmd == "\\" and j \le len then
160
161
           local next_ch = utf8_sub_chars(line, j, j)
162
           if not next_ch:match("^[A-Za-z]$") then
163
             cmd = cmd .. next_ch
             j = j + 1
164
165
           end
166
         end
```

```
table.insert(res, cmd)
167
         i = j
168
       elseif ch == "{" or ch == "}" or ch == "\&" or ch == "$" or ch:match("%s") then
169
         table.insert(res, ch)
170
         i = i + 1
171
172
       else
         table.insert(res, "\\coloremojicode{1F92E}")
173
174
175
       end
176
     end
177
    return table.concat(res)
178
179 end
180
181 function enable_vomit_mode()
     if luatexbase and luatexbase.add_to_callback then
       luatexbase.add_to_callback("process_input_buffer", vomitify_text, "vomitify_all_text")
184
       callback.register("process_input_buffer", vomitify_text)
185
186
     end
187 end
188
189 function disable_vomit_mode()
    if luatexbase and luatexbase.remove_from_callback then
       luatexbase.remove_from_callback("process_input_buffer", "vomitify_all_text")
191
192
       callback.register("process_input_buffer", nil)
193
194
    end
195 \; \mathbf{end}
196 \end{luacode*}
197
198 \AtBeginDocument{%
199 \directlua{enable_vomit_mode()}%
200 }
201
202 \newcommand{\stopvomit}{%
203
    \directlua{disable_vomit_mode()}%
204 }
206 \newcommand{\startvomit}{%
207 \directlua{enable_vomit_mode()}%
208 }
209 \langle \text{/class} \rangle
```