Package highlightlatex manual

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Abstract

This package provides colored syntax highlighting for LATEX source code, without aid from outside LATEX. This is in response to the general trend that people often fall back to verbatim for displaying code. This package aims to make good looking LATEX source code feasible for all users. For this, it builds further on the generic 'listings' package. An example output is shown in Figure 1.

Repository

https://github.com/vkuhlmann/highlight-latex

And look at this beautiful code

```
% Here is some code
\setcounter{secnumdepth}{1}
\begin{document}
  \section{My section (and Hi!)}

\unknowncommand\knowncommand
\inAccA\inAccB\inAccC
\section √2 ← cool!

Insert literal tildes like ~. Hi!
\end{document}
```

with some text after it.

Let's also show square brackets:

```
% File: document.tex
\documentclass[a4paper]{article}
\usepackage{amsmath}

\begin{document}
   Insert math like $\sqrt{2}$.
   \inAccA\inAccB\inAccC

\end{document}
```

The first line was of the form \documentclass[]{}. Very interesting. Note the # are only green because we defined it as a keyword.

Go to https://github.com/vkuhlmann/highlight-latex

Figure 1: Output of 'demo.tex'.

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1 Getting started

After having added the package, you can add LaTeX in two ways.

1.1 Inline style

```
Your file begins with a line of the form \hll|\documentclass[]{}|. The square brackets ...
```

The first non-space character following \hll delimits the argument to this command.

1.2 Block style

```
EXAMPLE
```

```
Your basic document now looks like

\begin{highlightblock}[gobble=2]
    \documentclass[a4paper]{article}
    \begin{document}
    Hello world!
    \end{document}

\end{highlightblock}
```

To prevent indentation of our highlightblock (here one tab) to be shown as part of the code, the gobble parameter strips them off. Play around with it until everything looks right. I recommend to set this value globally using \def\defaultgobble{2}. You can still override it on a per-block basis, if necessary.

There are situations where width of the block could run out of the page. For example, when using beamer and storing a block as described in the section 'Fragile breaking situations', the normal full-width of a slide is assumed. If you use multiple columns, set the linewidth on the highlightblock. This can be a fraction of the total slide width available, 0.6\textwidth is 60% of the width, or an absolute value, like 10em, which seems to equal 20 characters.

There are more keys you can provide. Check the listings package documentation ¹ for options available to the lstlisting-environment and lstset command.

2 Macro \updatehighlight

2.1 Adding a command to a highlighting rule

By default, only some LaTeX commands will be highlighted in blue. If there are others you need, like \tableofcontents and \figref, update the highlighting rules:

```
USE \updatehighlight{
    name = default,
    add = {
     \tableofcontents, \figref
    }
}
```

The change will only affect code after it. I recommend issuing updatehighlight in your preamble (before the \begin{document}}). In some situations you might want to change things mid-document. That's possible too.

¹ https://www.ctan.org/pkg/listings

2.2 Custom highlighting rules

2.2.1 Example

As shown in demo.tex, you can put any command or keyword you want to highlight in a different color. You do this with

EXAMPLE

```
\updatehighlight{
    % The name allows you to modify the style later.
    name = spotlight,
    color = orange,
    add = {
        \tableofcontents
    }
}
```

You can use the xcolor syntax for describing colors as well. If you find the orange too bright, you can replace it with orange!90!black: 90% orange, remaining is black. For more information on color definitions and name, refer to LaTeX/Colors on Wikibooks ².

2.2.2 Specification

The argument to \updatehighlight is a key-value list. Keys are processed sequentially. For example, use color before add rather than after it, and a key can appear multiple times. Each one will be processed. You can merge any two \updatehighlight in one. No need to close and reopen \updatehighlight for each highlighting rule.

You might be tempted to add a blank line for clarity; that means a new paragraph to LaTeX, don't do it. Instead, just put a line with only a \% sign. Spacing within the argument is often irrelevant. If you need a comma in the value, surround your value with braces.

name

Creates or modifies a named rule. This key is optional.

The default keys are default, which includes a bunch of basic commands, and has by default a dark blue color, and structure, which consists of \begin and \end and prints them in light blue.

classoffset

Sets the listings classoffset manually. Try to avoid this. Use name to refer to existing rules instead.

add

Adds a command (\mycommand) or keyword (Hi!) to the current rule. The value can contain multiple values by opening braces, and comma separating values within them.

remove

Removes a commands or keywords from the current rule. The value can contain multiple values by opening braces, and comma separating values within them.

² https://en.wikibooks.org/wiki/LaTeX/Colors

clear

Removes all commands and keywords from the current rule. Use without value, for example

```
EXAMPLE \updatehighlight{
   name = default,
   clear
}
```

color

Specifies a color for the rule. Equivalent to specifying style instead, with value \color{value} where value is the value for the color key. So color=red and style=\color{red} are equivalent.

style

Specifies a style for the rule. A rule can have only one style. If you specify a style after add or remove, this starts a new (unnamed) rule. In practice, the only style which will probably work for you is just a color. For that, using the 'color' key is just a bit easier and neater. But hey, you have the option to set whatever style you want. :)

3 Global settings

There are some global parameters involved in the appearance:

```
OVERVIEW \colorlet{curlyBrackets}{red!50!blue} \colorlet{squareBrackets}{blue!50!white} \colorlet{codeBackground}{gray!10!white} \colorlet{comment}{green!40!black} \def \def \defaultgobble{0}
```

Each line can be set independent of each other, and each shows its default value.

There are package options you can use as well:

```
frame (default: lines)
```

Specifies the frame you want around code. My favorites are lines and none. Check the listings package documentation ³ for all possibilities.

noframe (use without value)

Equivalent to frame=none.

styleanywhere (use without value)

Overrides the default behavior that style starts a new style after commands like add and remove.

4 Fragile breaking situations (like beamer frames)

When passing command arguments around, or storing environment content, LaTeX interprets all characters. This includes seeing \maketitle in \hll|\maketitle| as a real command. To prevent this behavior, everything from \verb, to the verbatim-environment, to the listings package (which this package depends on) temporarily changes the interpretation of characters that are still to be read. The blackslash before maketitle in \hll|\maketitle| will be read as 'just text' (a letter technically).

³ https://www.ctan.org/pkg/listings

When content has already been interpreted, like the frame-environment in beamer does, this trick can't be done anymore. Instead, you either need to escape code, or pre-process the code outside a fragile breaking situation.

Escaping is done by preceding the special character with a backslash. For example, \hll\\documentclass[]{\}|.

For large code blocks, this is undesirable. Therefore, the package provides for a companion to the highlightblock-environment: surround it with a saveblock-environment which takes a single argument: a name to assign it. We use it to refer to it later. For example:

EXAMPLE

```
begin{saveblock}{basicfigure}
   \begin{highlightblock}[linewidth=0.6\textwidth]
   \begin{figure}
    \includegraphics
    [width=0.9\linewidth]
    {myPlot.pdf}

    \caption{My plot}
    \label{fig:myplot}
    \end{figure}
   \end{highlightblock}
   \end{saveblock}
```

Do this outside a fragile breaking situation. (For the frame-environment example, that means just before the frame for example.) Then, where you want to use it, use \useblock{basicfigure}. There is also a variant \consumeblock{basicfigure}. If you save many blocks, these will all remain loaded in memory till your PDF has fully generated. The \consumeblock works like \useblock, except the saved block is deleted from memory after its use. Note this can also result in unexpected behavior, for example animations in a beamer frame might need the code line to be executed multiple times. Use \useblock when you can't make the guarantee the last use of a block.

There is a separate demo for fragile breaking situations. You can find it at deamerdemo/deamerdemo.tex.

5 Adding extra space

By default, highlight-latex follows an approach where it minimizes spacing. This gives you full control over how tight or spacious your document looks. Just use commands like \medskip to add extra spacing. The package doesn't currently include an option to do it everywhere automatically.

6 License

The package is available under MIT License. See LICENSE.txt.

7 Credits

Thanks for minor fixes:

gemmaro

For any bug, feature request, unclarity, or whatever else related to this package, you're welcome to open an issue or pull-request. Issues can be opened on

```
URL https://github.com/vkuhlmann/highlight-latex/issues
```

Thanks for contributing!

8 Implementation

```
1 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
2 \ProvidesPackage{highlightlatex}[2021/03/17 highlightlatex v1.0.0 + Dev]
4 % Repository: https://github.com/vkuhlmann/highlight-latex
5 % Version: v1.0.0 + Dev
7 % Copyright (c) 2021 Vincent Kuhlmann
9 % Permission is hereby granted, free of charge, to any person
10 % obtaining a copy of this software and associated documentation
11 % files (the "Software"), to deal in the Software without
12\ \% restriction, including without limitation the rights to use,
13 % copy, modify, merge, publish, distribute, sublicense, and/or sell
14 \% copies of the Software, and to permit persons to whom the
15 % Software is furnished to do so, subject to the following
16 % conditions:
18\ \% The above copyright notice and this permission notice shall be
19 % included in all copies or substantial portions of the Software.
21 % THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
22 % EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
23 % OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
24 % NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
25 % HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
26 % WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
27 % FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
28 % OTHER DEALINGS IN THE SOFTWARE.
30 \RequirePackage{listings}
31 \RequirePackage{xcolor}
33 \RequirePackage{xkeyval}
34 \RequirePackage{etoolbox}
35
36 %% Snippet source:
37 % https://tex.stackexchange.com/questions/406015/defining-macro-gsetlength-as-global-setlength-reliable
38 \gdef\gsetlength#1#2{%
39
    \begingroup
      \setlength\skip@{#2}%
40
      \global#1=\skip@
41
42
    \endgroup
43 }
44
45
46 \def\@highlight@frame{none}
47 \newlength{\hll@offset@fixskip}
48 \setlength{\hll@offset@fixskip}{0pt}
50 \newif\ifhllStyleAnywhere
51 \newcommand\defaultgobble{0}
52 \newif\ifhllDebugFrame
53 %\hllDebugFrametrue
54 \newlength\hllBeforeSkip
55 \setlength\hllBeforeSkip{2pt}
56 \newlength\hllAfterSkip
57 \setlength\hllAfterSkip{0pt}
```

8.1 Package options

```
59 \DeclareOptionX{frame}{
    \setframe{#1}
61 }
62
63 \DeclareOptionX{noframe}{
    \setframe{none}
65 }
66
67 \def\setframe#1{%
    \def\frameval{#1}%
    \ifx\relax#1\relax
69
      \def\frameval{lines}%
70
71
    \fi
72
    \def\linesvalue{lines}%
73
    \xdef\@highlight@frame{\frameval}%
74
75
    \ifx\frameval\linesvalue
76
      \gsetlength{\hll@offset@fixskip}{6pt}%
77
78
      \gsetlength{\hll@offset@fixskip}{Opt}%
79
    \fi
80
81 }
82
83 \DeclareOptionX{styleanywhere}{
    \hllStyleAnywheretrue
85 }
87 \DeclareOptionX*{\PackageWarning{highlightlatex}{'\CurrentOption' ignored}}
88 \ExecuteOptionsX{frame=lines}
90 \ProcessOptionsX\relax
91
```

8.2 Initialization

```
92 \colorlet{curlyBrackets}{red!50!blue}
93 \colorlet{squareBrackets}{blue!50!white}
94 \colorlet{codeBackground}{gray!10!white}
95 \colorlet{comment}{green!40!black}
96
97 \colorlet{accDefault}{blue!90!black}
98 \definecolor{accStructure}{RGB}{0,149,255}
99
100 \colorlet{accentB}{green!60!black}
101
102 \catcode'\{=11
103 \let\myopenbrace={
104 \catcode'\{=1}
105
106 \catcode'\}=11
107 \let\myclosebrace=}
108 \catcode'\}=2
109
110 \lstdefinelanguage{ColoredLaTeX}
111 [LaTeX]{TeX}{
```

```
backgroundcolor=\color{codeBackground},
112
     keywordstyle=\bfseries\color{accDefault},
113
     basicstyle=\footnotesize\ttfamily,
114
     commentstyle=\color{comment},
115
116
    numbers=none,
     tabsize=2,
117
118
     mathescape=false,
     alsoletter={$0_!|?$},
119
120 %
     classoffset=0,
121
     keywordstyle=\color{accDefault},
122
123
     texcsstyle=*\color{accDefault},
     moretexcs={subsection, the subsection, the section, theorem style},
124
     deletetexcs={begin,end},
125
126 %
     classoffset=1,
127
     keywordstyle=\color{accStructure},
128
     texcsstyle=*\color{accStructure},
129
     moretexcs={begin,end},
130
131 %
     classoffset=2,
132
     escapeinside=~~,
133
134 %
     classoffset=0,
135
     %literate={textA}{textB}{3}%
136
     %https://tex.stackexchange.com/questions/172945/coloring-in-listing
137
     literate={\{}{{\textcolor{curlyBrackets}{\myopenbrace}}}{1}
138
       {\}}{{\textcolor{curlyBrackets}{\myclosebrace}}}{1}
139
       {[}{{\textcolor{squareBrackets}{[}}}{1}
140
       {]}{{\textcolor{squareBrackets}{]}}}{1}%
141
     %
          {(}{{\textcolor{delimiterColor}{(}}}{1}
142
143
          {)}{{\textcolor{delimiterColor}{)}}}{1}%
     %texcsstyle=\color{blue}
145 }
146 \lstset{language=ColoredLaTeX}
147
148 \def\hll@assignlabel#1#2{%
     \expandafter\gdef\csname hll@labeltoclassoffset@#1\endcsname{#2}%
149
150 }
152 \hll@assignlabel{default}{0}
153 \hll@assignlabel{structure}{1}
154
       Options
8.3
155
156 \newcommand{\hllDelimDollar}[1][\color{green!40!black}]{%
     \lstset{
157
       classoffset=2,
158
       moredelim=**[s][#1]{$}{$},
159
       classoffset=0
160
    }%
161
162 }
163
164 \newcommand{\hllDelimParen}[1][\color{green!40!black}]{%
165
     \lstset{
166
       classoffset=2,
       moredelim=**[s][#1]{\(){\)},
167
```

```
168 classoffset=0
169 }%
170 }
171
```

8.4 Block and inline markup

```
172
173
174 \newcommand{\hllPrepareBlock}{%
     \lstset{framesep=0.1cm,framerule=0.6pt}%
     \def\setHighlightFrame##1{%
176
       \lstset{frame=##1}%
177
     }%
178
     \expandafter\setHighlightFrame\expandafter{\@highlight@frame}%
179
     \lstset{belowskip=0pt,aboveskip=0pt,belowcaptionskip=0pt,gobble=\defaultgobble}%
180
     \setlength\parskip{0pt}%
181
182
     \setlength\parindent{0pt}%
183 }
184
185 \lstnewenvironment{highlightblock}[1][]
186 {%
     \vspace{\hllBeforeSkip}%
187
     \begingroup
     \hllPrepareBlock\lstset{#1}%
189
190 }{%
     \nointerlineskip
191
     \endgroup
192
     \vspace{\hllAfterSkip}%
193
194 }
196 \lstnewenvironment{hllblock}[1][]
197 {%
     \vspace{\hllBeforeSkip}%
198
     \begingroup
199
     \hllPrepareBlock\lstset{#1}%
200
201 }{%
     \endgroup
     \vspace{\hllAfterSkip}%
203
204 }
205
206 \def\hll{\lstinline}
207
```

8.5 Block saving

```
208
210 \newenvironment{saveblock}[1]{%
211
     \expandafter\ifx\csname @codebox@#1\endcsname\relax
       \expandafter\newbox\csname @codebox@#1\endcsname\relax
212
     \fi
213
214
215
     %% The trick from latex/base/latex.ltx
216
     \edef\@bracehack{%
217
       \endgroup
       \expandafter\setbox\csname @codebox@#1\endcsname\vbox{%
218
         \begingroup\aftergroup}%
219
       \def\noexpand\@currenvir{\@currenvir}%
220
       \def\noexpand\@currenvline{\on@line}}%
221
```

```
\@bracehack
222
     \begingroup\vspace{\hll@offset@fixskip}
223
     \ignorespaces%
224
225 }{%
     \endgroup
226
227 }
228
229 \newcommand\useblock[1]{%
     \ifhllDebugFrame
230
       \par
231
       {%
232
         \setlength{\fboxsep}{0pt}%
233
         \fcolorbox{orange}{red}{\expandafter\usebox\csname @codebox@#1\endcsname}%
234
235
236
       \par
237
     \else
       \par\expandafter\usebox\csname @codebox@#1\endcsname\par
238
     \fi
239
240 }
241
242 \newcommand\consumeblock[1] \{\%
     \ifhllDebugFrame
243
       \par
244
       {%
245
         \setlength{\fboxsep}{0pt}%
246
         \setlength{\fboxrule}{1pt}%
247
         \fcolorbox{orange}{red}{\leavevmode\expandafter\box\csname @codebox@#1\endcsname\relax}%
248
       }
249
       \par
250
       \expandafter\let\csname @codebox@#1\endcsname\relax
251
252
253
       \par\leavevmode\expandafter\box\csname @codebox@#1\endcsname\relax\par
254
       \expandafter\let\csname @codebox@#1\endcsname\relax
     \fi
255
256 }
257
```

8.6 Macro \updatehighlight

```
258 \def\hll@update@label{}
259
260 \newcounter{hll@update@state}
262 \newcounter{hll@update@nextclassoffset}
263 \setcounter{hll@update@nextclassoffset}{5}
264
265 \newcounter{hll@update@classoffset}
266
267 \def\hll@update@fixclassoffset{%
     \ifnum\value{hll@update@state}<1\relax
     \setcounter{hll@update@classoffset}{\thehll@update@nextclassoffset}%
269
     \stepcounter{hll@update@nextclassoffset}%
270
     \setcounter{hll@update@state}{1}%
271
272
     \fi
273 }
274
275 \newcommand{\updatehighlight}[1]{%
     \setcounter{hll@update@state}{-1}%
     \gdef\hll@update@label{}%
```

```
\setkeys{updatehighlight}{#1}%
278
279
     %
     \lstset{classoffset=0}%
280
281 }
282
8.6.1 Key 'name'
283 \define@key{updatehighlight}{name}{%
     \hll@update@setlabel{#1}%
284
285 }
286
287 \def\hll@update@setlabel#1{
288
     \gdef\hll@update@label{#1}%
     \expandafter\def\expandafter\@capturedlabel\expandafter{\csname hll@labeltoclassoffset@#1\endcsname}%
     \expandafter\unless\expandafter\ifx\@capturedlabel\relax\relax
290
291
       % Label exists
       \edef\@val{\@capturedlabel}%
292
       \setcounter{hll@update@classoffset}{\@val}%
293
       \setcounter{hll@update@state}{1}%
294
295
     \else
296
       % Allocate new label
297
       \edef\@val{\thehll@update@nextclassoffset}%
298
       \setcounter{hll@update@classoffset}{\@val}%
       \stepcounter{hll@update@nextclassoffset}%
299
       \setcounter{hll@update@state}{1}%
300
301
302
       \expandafter\xdef\@capturedlabel{\@val}%
303
     \fi
304 }
305
8.6.2
        Key 'classoffset'
% macro:->end{highlightblock}
\define@key{updatehighlight}{classoffset}{%
   \setcounter{hll@update@classoffset}{#1}%
   \setcounter{hll@update@state}{1}%
% tadaaa
%
aaa
8.6.3
       Key 'add'
306 \define@key{updatehighlight}{add}{%
     \hll@update@add{#1}%
307
308 }
310 \def\hll@update@add#1{%
311
     \hll@update@fixclassoffset
     \def\@inv##1{\forcsvlist{\hll@update@additem{##1}}{#1}}%
312
     \expandafter\@inv\expandafter{\the\c@hll@update@classoffset}
313
     %
314
315
     \setcounter{hll@update@state}{2}%
316 }
317
318 \def\hll@update@additem#1#2{%
     \  \if \noexpand#2\relax
319
       \edef\keywordpure{\expandafter\@gobble\string#2}%
320
       \def\callwithpure##1{\hll@update@addmacro{#1}{##1}}%
321
```

4

5

6 7

```
\expandafter\callwithpure\expandafter{\keywordpure}%
322
323
     \else
       \hll@update@addkeyword{#1}{#2}%
324
     \fi
325
326 }
327
328 \def\hll@update@addmacro#1#2{%
     \lstset{
329
       classoffset=0,deletetexcs={#2},
330
       classoffset=1,deletetexcs={#2},
331
       classoffset=#1,moretexcs={#2},
332
       classoffset=0
333
334
     }%
335 }
336
337 \def\hll@update@addkeyword#1#2{%
     \lstset{
338
       classoffset=0,deletekeywords={#2},
339
340
       classoffset=1,deletekeywords={#2},
341
       classoffset={#1},otherkeywords={#2},morekeywords={#2},
       classoffset=0
342
    }%
343
344 }
345
8.6.4 Key 'remove'
346 \define@key{updatehighlight}{remove}{%
     \hll@update@remove{#1}%
347
348 }
349
350 \def\hll@update@remove#1{%
     \hll@update@fixclassoffset
351
     352
353
     \expandafter\@inv\expandafter{\the\c@hll@update@classoffset}
354
     \setcounter{hll@update@state}{2}%
355
356 }
357
358 \def\hll@update@removeitem#1#2{%
     \  \if \noexpand#2\relax
       \edef\keywordpure{\expandafter\@gobble\string#2}%
360
       \def\callwithpure##1{\hll@update@removemacro{#1}{##1}}%
361
       \expandafter\callwithpure\expandafter{\keywordpure}%
362
     \else
363
       \hll@update@removekeyword{#1}{#2}%
364
365
     \fi
366 }
367
368 \def\hll@update@removemacro#1#2{%
     \lstset{
369
       classoffset={#1},
370
       deletetexcs={#2},
371
       classoffset=0
372
373
    }%
374 }
375
376 \def\hll@update@removekeyword#1#2{%
    \lstset{
```

```
classoffset={#1},
378
       deletekevwords={#2}.
379
       classoffset=0
380
     }%
381
382 }
383
8.6.5
        Key 'style'
384 \define@key{updatehighlight}{style}{%
     \hll@update@fixclassoffset
     \unless\ifhllStyleAnywhere
386
       \ifnum\value{hll@update@state}>1\relax
387
         \setcounter{hll@update@state}{0}%
388
         \hll@update@fixclassoffset
389
390
       \fi
     \fi
391
392
     \expandafter\hll@update@setstyle\expandafter{\the\c@hll@update@classoffset}{#1}%
393
394 }
395
396 \ensuremath{ \mbox{ def}\mbox{ hll@update@setstyle#1#2{%}}}
     \lstset{%
       classoffset={#1},
398
       keywordstyle={#2},
399
       texcsstyle={*#2},
400
     }%
401
402 }
403
8.6.6
        Key 'color'
404 \define@key{updatehighlight}{color}{%
     \hll@update@fixclassoffset
405
     \unless\ifhllStyleAnywhere
406
       \ifnum\value{hll@update@state}>1\relax
407
         \setcounter{hll@update@state}{0}%
408
409
         \hll@update@fixclassoffset
410
       \fi
     \fi
411
412
     \expandafter\hll@update@setcolor\expandafter{\the\c@hll@update@classoffset}{#1}%
413
414 }
415
416 \def\hll@update@setcolor#1#2{%
     \lstset{%
417
418
       classoffset={#1},
       keywordstyle={\color{#2}},
419
       texcsstyle={*\color{#2}},
420
421
     }%
422 }
423
8.6.7 Key 'clear'
424 \define@key{updatehighlight}{clear}[]{%
     \hll@update@fixclassoffset
     \expandafter\hll@update@clear\expandafter{\the\c@hll@update@classoffset}%
426
427 }
428
429 \def\hll@update@clear#1{%
```

```
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431 classoffset={#1},
432 texcs={},
433 keywords={},
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435 }%
436}
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