

The yCards package*

Harvey Sheppard
harveysheppard75 [at] yandex [dot] com

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Abstract

The yCards package provides utilities to create cards-like (cards refers here to the web-UI concept) graphical elements.

1 Example



```
\ycard[background/color=black][inversedmaincolor]{  
  \yccontent{{\Large\bfseries Title}}  
  \ycimage[Caption]{test.jpg}  
  \yccontent{This is the text of the card}  
}
```

2 User Commands

2.1 Cards

`\ycard[or][style]{content}` All cards are created using this command. The `or` argument allows you to specify local overrides. The `style` argument allows you to specify a list of comma-separated styles that will be applied sequentially to the card. More details about styles are given in section 2.4. The `content` argument is list of commands that will describe the card's content. The commands that you can issue in this place are described in section 2.2.

*This document corresponds to yCards v1.0, dated 2017/06/30.

2.2 Content Commands

<code>\yccontent[style]{content}</code>	Typesets a paragraph of text inside the card. The style argument allows to pass some configuration options to the tikz node created under the hood by this package.
<code>\ycheader<*>[style]{content}</code>	Typesets a header for the card with a horizontal line below it. If the command is starred, then no horizontal line will be added below the header. Headers differ from normal content in the sense that a special color can be attributed to them. The style argument allows to pass some configuration options to the tikz node created under the hood by this package.
<code>\ycfooter<*>[style]{content}</code>	Typesets a footer for the card with a horizontal line above it. If the command is starred, then no horizontal line will be added. Footers differ from normal content in the sense that a special color can be attributed to them. The style argument allows to pass some configuration options to the tikz node created under the hood by this package.
<code>\ycline[style1][style2]</code>	Typesets a horizontal line. The style1 argument allows to pass some configuration options to the tikz node that actually prints the line. The style2 argument allows to pass some configuration options to the tikz node created below the line for spacing.
<code>\ycimage[caption]{image path}</code>	Typesets an image that takes the full card width. The caption argument will typeset a caption on top of the image. See section 3.2 for the list of option available for caption configuration. The image path argument is the path to the image to be printed.

2.3 Global Configuration

<code>\ycardsset{keys}</code>	This command allow to globally change the yCards options. The <keys> argument must respect the tikz syntax. The possible configuration options for the cards are described in section 3.2.
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2.4 Styles

<code>\ycnewstyle{name}{options}</code>	Declare a new style named name that applies the options described in options . The options argument is a comma-separated list of configurations. For the list of available configurations, see section 3.2.
<code>\ycapptostyle{name}{options}</code>	Appends the configurations given in options to the style named name .
<code>\ycapplstyle{name}</code>	Apply the style named name . This command is mostly seen inside the card environment.

3 Code

3.1 Configuration Commands

```
\ycardsset
1 \DeclareDocumentCommand{\ycardsset}{m}{%
2 \pgfqkeys{/ycards}{#1}%
```

```
3 }
```

3.2 yCard Options

Padding

```
4 \ycardsset{%  
5 padding/.store as dimen,  
6 padding = 1em,  
7 }
```

Background

```
8 \ycardsset{%  
9 background/color/.store as color,  
10 background/color = white,  
11 background/opacity/.store as code,  
12 background/opacity = 1,  
13 rounded corners/.store as dimen,  
14 rounded corners = .3mm,  
15 shadow/.style = {%  
16 blur shadow={%  
17 shadow xshift=0mm,%  
18 shadow yshift=-.35mm,%  
19 shadow opacity=40,%  
20 shadow blur radius=.6mm,%  
21 shadow blur steps=30,%  
22 },%  
23 },%  
24 }
```

Line around the card

```
25 \ycardsset{%  
26 line width/.store as dimen,  
27 line width = 0pt,  
28 line color/.store as color,  
29 line color = lightGrey,  
30 line opacity/.store as code,  
31 line opacity = 1,  
32 }
```

Content

```
33 \ycardsset{%  
34 content/.cd,  
35 align/.is enum={%  
36 left,%  
37 flush left,%  
38 right,%  
39 flush right,%  
40 center,%  
41 flush center,%
```

```

42 justify,%
43 none,%
44 },
45 align = left,
46 font/.initial = {},
47 color/.store as color,
48 color = black,
49 }

```

Header

```

50 \ycardsset{%
51 header/.cd,
52 color/.store as color,
53 color = Black,
54 }

```

Footer

```

55 \ycardsset{%
56 footer/.cd,
57 color/.store as color,
58 color = middleGrey,
59 }

```

Image

```

60 \ycardsset{%
61 image/.cd,
62 padding/.store as dimen,
63 padding = 0mm,
64 align/.is enum={%
65 left,%
66 flush left,%
67 right,%
68 flush right,%
69 center,%
70 flush center,%
71 justify,%
72 none,%
73 },
74 align = left,
75 font/.initial = {},
76 color/.store as color,
77 color = white,
78 text vertical align/.is enum={top,bottom},
79 text vertical align=bottom,
80 }

```

Separator line

```

81 \ycardsset{%
82 separator/.cd,

```

```

83 line width/.store as dimen,
84 line width = .5pt,
85 line color/.store as color,
86 line color=lightGrey,
87 }

```

\@yc@card@skeleton

- Local overrides
- Style
- List of Content

```

88 \DeclareDocumentCommand{\@yc@card@skeleton}{m m m}{%
89 \noindent%
90 \begin{group}%
91 \ifstrempy{#2}{-}{\forcsvlist{\ycapstylestyle}{#2}}%
92 \pgfkeys{/ycards/.cd, #1}%
93 \begin{tikzpicture}[inner sep=0mm, node distance=0mm, outer sep=0mm]
94 \begin{scope}
95 \coordinate (cardNorthWest) at (0, 0);
96 \coordinate[yshift=-.5*\pgfkeysvalueof{/ycards/line width}] (previous) at (cardNorthWest);
97 #3
98 \coordinate[yshift=-.5*\pgfkeysvalueof{/ycards/line width}] (cardSouthEast) at (previous.south
99 \clip [
100 rounded corners=\pgfkeysvalueof{/ycards/rounded corners},
101 ] (cardNorthWest) rectangle (cardSouthEast);
102 \end{scope}
103 \begin{scope}[on background layer]
104 \fill[
105 \pgfkeysvalueof{/ycards/background/color},
106 opacity=\pgfkeysvalueof{/ycards/background/opacity},
107 rounded corners=\pgfkeysvalueof{/ycards/rounded corners},
108 /ycards/shadow,
109 ] (cardNorthWest) rectangle (cardSouthEast);
110 \end{scope}
111 \draw[
112 \pgfkeysvalueof{/ycards/line color},
113 line width=\pgfkeysvalueof{/ycards/line width},
114 opacity=\pgfkeysvalueof{/ycards/line opacity},
115 rounded corners=\pgfkeysvalueof{/ycards/rounded corners}
116 ] (cardNorthWest) rectangle (cardSouthEast);
117 \end{tikzpicture}%
118 \endgroup%
119 }

```

\yccontent

```

120 \DeclareDocumentCommand{\yccontent}{0{ } m}{%
121 \node[
122 anchor=north west,
123 align=\pgfkeysvalueof{/ycards/content/align},
124 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},

```

```

125 inner sep=\pgfkeysvalueof{/ycards/padding},
126 font=\pgfkeysvalueof{/ycards/content/font},
127 text=\pgfkeysvalueof{/ycards/content/color},
128 #1,
129 ] (previous) at (previous.south west) {#2};
130 }

\ycheader
131 \DeclareDocumentCommand{\ycheader}{s O{} m}{%
132 \node[
133 anchor=north west,
134 align=\pgfkeysvalueof{/ycards/content/align},
135 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
136 inner sep=\pgfkeysvalueof{/ycards/padding},
137 font=\pgfkeysvalueof{/ycards/content/font},
138 text=\pgfkeysvalueof{/ycards/header/color},
139 #2
140 ] (previous) at (previous.south west) {#3};
141 \IfBooleanF{#1}{\ychline}
142 }

\ycfooter
143 \DeclareDocumentCommand{\ycfooter}{s O{} m}{%
144 \IfBooleanF{#1}{\ychline}
145 \node[
146 anchor=north west,
147 align=\pgfkeysvalueof{/ycards/content/align},
148 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
149 inner sep=\pgfkeysvalueof{/ycards/padding},
150 font=\pgfkeysvalueof{/ycards/content/font},
151 text=\pgfkeysvalueof{/ycards/footer/color},
152 #2,
153 ] (previous) at (previous.south west) {#3};
154 }

\ychline
155 \DeclareDocumentCommand{\ychline}{O{} O{}}{%
156 \node[
157 line width=0mm,
158 inner sep=0mm,
159 minimum height=\pgfkeysvalueof{/ycards/separator/line width},
160 minimum width=\linewidth-1.5*\pgfkeysvalueof{/ycards/line width},
161 rectangle,
162 fill=\pgfkeysvalueof{/ycards/separator/line color},
163 anchor=north west,
164 #1,
165 ] at ($(previous.south west) + (.5*\pgfkeysvalueof{/ycards/line width}, 0)$) {};
166 \node [
167 line width=0mm,

```

```

168 minimum height=\pgfkeysvalueof{/ycards/separator/line width},
169 minimum width=\linewidth-\pgfkeysvalueof{/ycards/line width},
170 anchor=north west,
171 #2,
172 ] (previous) at (previous.south west) {};
173 }

\ycimage
174 \DeclareDocumentCommand{\ycimage}{0{} m}{%
175 \node[
176 line width=0mm,
177 inner sep=\pgfkeysvalueof{/ycards/image/padding},
178 text width=\linewidth-2*\pgfkeysvalueof{/ycards/image/padding}-1.5*\pgfkeysvalueof{/ycards/line
179 anchor=north west,
180 ] (ycimage) at ($(previous.south west) + (.5*\pgfkeysvalueof{/ycards/line width}, 0)$) {\includ
181 \coordinate[xshift=-.5*\pgfkeysvalueof{/ycards/line width}] (tempnorthwest) at (ycimage.north w
182 \coordinate[xshift=.5*\pgfkeysvalueof{/ycards/line width}] (tempsoutheast) at (ycimage.south ea
183 \ifstrequal{\pgfkeysvalueof{/ycards/image/text vertical align}}{top}{%
184 \node[
185 anchor = north west,
186 align=\pgfkeysvalueof{/ycards/image/align},
187 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
188 inner sep=\pgfkeysvalueof{/ycards/padding},
189 font=\pgfkeysvalueof{/ycards/image/font},
190 text=\pgfkeysvalueof{/ycards/image/color},
191 ] at (tempnorthwest) {#1};
192 }{%
193 \node[
194 anchor = south west,
195 align=\pgfkeysvalueof{/ycards/image/align},
196 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
197 inner sep=\pgfkeysvalueof{/ycards/padding},
198 font=\pgfkeysvalueof{/ycards/image/font},
199 text=\pgfkeysvalueof{/ycards/image/color},
200 ] at ($(ycimage.south west) + (-.5*\pgfkeysvalueof{/ycards/line width}, 0)$) {#1};
201 }
202 \node[
203 line width=0mm,
204 fit=(tempnorthwest)(tempsoutheast),
205 ] (previous) {};
206 }

```

3.3 Style definition

```

\ycnewstyle
207 \DeclareDocumentCommand{\ycnewstyle}{m m}{%
208 \pgfkeys{%
209 /ycards/#1/.style={/ycards/.cd,#2}%
210 }%

```

```

211 }

\ycapptostyle
212 \DeclareDocumentCommand{\ycapptostyle}{m m}{%
213 \pgfkeys{
214 /ycards/#1/.append style = {#2}
215 }%
216 }

\ycapplystyle
217 \DeclareDocumentCommand{\ycapplystyle}{m}{%
218 \pgfkeys{/ycards/#1}%
219 }

```

3.4 Default Styles

```

noborder
220 \ycnewstyle{noborder}{
221 line width=0mm,%
222 }

inversed
223 \ycnewstyle{inversed}{
224 content/color=white,
225 background/color=black,
226 }

inversedmaincolor
227 \ycnewstyle{inversedmaincolor}{
228 content/color=white,
229 background/color=mainColor,
230 }

```

3.5 Shortcut commands

```

\ycard
231 \DeclareDocumentCommand{\ycard}{0{} 0{} m}{%
232 \@yc@card@skeleton{#1}{#2}{#3}
233 }

```