

The yCards package*

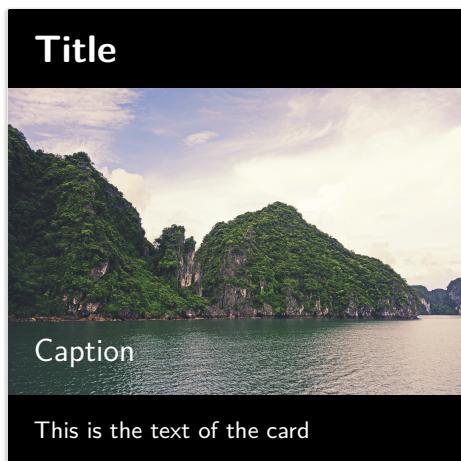
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Abstract

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 spec-

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

ify 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.

2.2 Content Commands

`\yccontent[style]{content}` 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.

`\ycheader<*>[style]{content}` 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.

`\ycfooter<*>[style]{content}` 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.

`\ycline[style1][style2]` 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.

`\ycimage[caption]{image path}` Typesets an image that takes the full card width. The `caption` argument will typeset a caption on top of the image. See section 3.3 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

`\ycardsset{keys}` 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 3.3.

2.4 Styles

`\ycnewstyle{name}{options}` 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 3.3.

`\ycapptostyle{name}{options}` Appends the configurations given in `options` to the style named `name`.

`\ycapplystyle{name}` Apply the style named `name`. This command is mostly seen inside the card environment.

3 Code

3.1 Global Code

Package Configuration

```
1 \usetikzlibrary{backgrounds}
```

3.2 Configuration Commands

\ycardsset

```
2 \DeclareDocumentCommand{\ycardsset}{m}{%
3 \pgfqkeys{/ycards}{#1}%
4 }
```

3.3 yCard Options

Padding

```
5 \ycardsset{%
6 padding/.store as dimen,
7 padding = 1em,
8 above skip/.store as dimen,
9 above skip=\baselineskip,
10 below skip/.store as dimen,
11 below skip=\baselineskip,
12 }
```

Background

```
13 \ycardsset{%
14 background/color/.store as color,
15 background/color = white,
16 background-opacity/.store as code,
17 background-opacity = 1,
18 rounded corners/.store as dimen,
19 rounded corners = .3mm,
20 shadow/.style = {blur shadow={shadow xshift=0mm, shadow yshift=-.35mm, shadow opacity=40, shad
21 }
```

Line around the card

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

```

Content
30 \ycardsset{%
31 content/.cd,
32 align/.is enum={left,flush left,right,flush right,center,flush center,justify,none},
33 align = left,
34 font/.initial = {\small\sffamily},
35 color/.store as color,
36 color = black,
37 }

Header
38 \ycardsset{%
39 header/.cd,
40 color/.store as color,
41 color = middleGrey,
42 }

Footer
43 \ycardsset{%
44 footer/.cd,
45 color/.store as color,
46 color = middleGrey,
47 }

Image
48 \ycardsset{%
49 image/.cd,
50 padding/.store as dimen,
51 padding = 0mm,
52 align/.is enum={left,flush left,right,flush right,center,flush center,justify,none},
53 align = left,
54 font/.initial = {\large\sffamily},
55 color/.store as color,
56 color = white,
57 text vertical align/.is enum={top,bottom},
58 text vertical align=bottom,
59 }

Separator line
60 \ycardsset{%
61 separator/.cd,
62 line width/.store as dimen,
63 line width = .5pt,
64 line color/.store as color,
65 line color=lightGrey,
66 }

```

\@cyc@card@skeleton

- Local overrides
- Style

- List of Content

```

67 \DeclareDocumentCommand{\@yc@card@skeleton}{m m m}{%
68 \noindent%
69 \begingroup%
70 \ifstrempty{#2}{}{\forcsvlist{\ycapplystyle}{#2}}%
71 \pgfkeys{/ycards/.cd, #1}%
72 \begin{tikzpicture}[inner sep=0mm, node distance=0mm, outer sep=0mm]
73 \begin{scope}
74 \coordinate (cardNorthWest) at (0, 0);
75 \coordinate[yshift=-.5*\pgfkeysvalueof{/ycards/line width}] (previous) at (cardNorthWest);
76 #3
77 \coordinate[yshift=-.5*\pgfkeysvalueof{/ycards/line width}] (cardSouthEast) at (previous.south
78 \clip [
79 rounded corners=\pgfkeysvalueof{/ycards/rounded corners},
80 ] (cardNorthWest) rectangle (cardSouthEast);
81 \end{scope}
82 \begin{pgfonlayer}{background}
83 \fill[
84 \pgfkeysvalueof{/ycards/background/color},
85 opacity=\pgfkeysvalueof{/ycards/background/opacity},
86 rounded corners=\pgfkeysvalueof{/ycards/rounded corners},
87 /ycards/shadow,
88 ] (cardNorthWest) rectangle (cardSouthEast);
89 \end{pgfonlayer}
90 \draw[
91 \pgfkeysvalueof{/ycards/line color},
92 line width=\pgfkeysvalueof{/ycards/line width},
93 opacity=\pgfkeysvalueof{/ycards/line opacity},
94 rounded corners=\pgfkeysvalueof{/ycards/rounded corners}
95 ] (cardNorthWest) rectangle (cardSouthEast);
96 \draw [opacity=0] ($ (cardNorthWest)+(0,\pgfkeysvalueof{/ycards/above skip})$) circle (0);
97 \draw [opacity=0] ($ (cardSouthEast)+(0,-\pgfkeysvalueof{/ycards/below skip})$) circle (0);
98 \end{tikzpicture}%
99 \endgroup%
100 }

\yccontent
101 \DeclareDocumentCommand{\yccontent}{O{} m}{%
102 \node[
103 anchor=north west,
104 align=\pgfkeysvalueof{/ycards/content/align},
105 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
106 inner sep=\pgfkeysvalueof{/ycards/padding},
107 font=\pgfkeysvalueof{/ycards/content/font},
108 text=\pgfkeysvalueof{/ycards/content/color},
109 #1,
110 ] (previous) at (previous.south west) {#2};
111 }

```

```

\ycheader
112 \DeclareDocumentCommand{\ycheader}{s O{} m}{%
113 \node[%
114 anchor=north west,
115 align=\pgfkeysvalueof{/ycards/content/align},
116 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
117 inner sep=\pgfkeysvalueof{/ycards/padding},
118 font=\pgfkeysvalueof{/ycards/content/font},
119 text=\pgfkeysvalueof{/ycards/header/color},
120 #2
121 ] (previous) at (previous.south west) {#3};
122 \IfBooleanF{#1}{\ychline}
123 }

\ycfooter
124 \DeclareDocumentCommand{\ycfooter}{s O{} m}{%
125 \IfBooleanF{#1}{\ychline}
126 \node[%
127 anchor=north west,
128 align=\pgfkeysvalueof{/ycards/content/align},
129 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
130 inner sep=\pgfkeysvalueof{/ycards/padding},
131 font=\pgfkeysvalueof{/ycards/content/font},
132 text=\pgfkeysvalueof{/ycards/footer/color},
133 #2,
134 ] (previous) at (previous.south west) {#3};
135 }

\ychline
136 \DeclareDocumentCommand{\ychline}{O{} O{}}{%
137 \node[%
138 line width=0mm,
139 inner sep=0mm,
140 minimum height=\pgfkeysvalueof{/ycards/separator/line width},
141 minimum width=\linewidth-1.5*\pgfkeysvalueof{/ycards/line width},
142 rectangle,
143 fill=\pgfkeysvalueof{/ycards/separator/line color},
144 anchor=north west,
145 #1,
146 ] at ($(previous.south west) + (.5*\pgfkeysvalueof{/ycards/line width}, 0)$) {};
147 \node [
148 line width=0mm,
149 minimum height=\pgfkeysvalueof{/ycards/separator/line width},
150 minimum width=\linewidth-\pgfkeysvalueof{/ycards/line width},
151 anchor=north west,
152 #2,
153 ] (previous) at (previous.south west) {};
154 }

\ycimage

```

```

155 \DeclareDocumentCommand{\ycimage}{O{} m}{%
156 \node[
157 line width=0mm,
158 inner sep=\pgfkeysvalueof{/ycards/image/padding},
159 text width=\linewidth-2*\pgfkeysvalueof{/ycards/image/padding}-1.5*\pgfkeysvalueof{/ycards/line
160 anchor=north west,
161 ] (ycimage) at ($(previous.south west) + (.5*\pgfkeysvalueof{/ycards/line width}, 0)$) {\include
162 \coordinate[xshift=-.5*\pgfkeysvalueof{/ycards/line width}] (tempnorthwest) at (ycimage.north w
163 \coordinate[xshift=.5*\pgfkeysvalueof{/ycards/line width}] (tempsoutheast) at (ycimage.south ea
164 \ifstreq{\pgfkeysvalueof{/ycards/image/text vertical align}}{top}{%
165 \node[
166 anchor = north west,
167 align=\pgfkeysvalueof{/ycards/image/align},
168 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
169 inner sep=\pgfkeysvalueof{/ycards/padding},
170 font=\pgfkeysvalueof{/ycards/image/font},
171 text=\pgfkeysvalueof{/ycards/image/color},
172 ] at (tempnorthwest) {#1};
173 }%
174 \node[
175 anchor = south west,
176 align=\pgfkeysvalueof{/ycards/image/align},
177 text width=\linewidth-2*\pgfkeysvalueof{/ycards/padding}-\pgfkeysvalueof{/ycards/line width},
178 inner sep=\pgfkeysvalueof{/ycards/padding},
179 font=\pgfkeysvalueof{/ycards/image/font},
180 text=\pgfkeysvalueof{/ycards/image/color},
181 ] at (ycimage.south west) + (-.5*\pgfkeysvalueof{/ycards/line width}, 0$) {#1};
182 }
183 \node[
184 line width=0mm,
185 fit=(tempnorthwest)(tempsoutheast),
186 ] (previous) {};
187 }

```

3.4 Style definition

```

\ycnewstyle
188 \DeclareDocumentCommand{\ycnewstyle}{m m}{%
189 \pgfkeys{%
190 /ycards/#1/.style={/ycards/.cd,#2}%
191 }%
192 }

\ycapptostyle
193 \DeclareDocumentCommand{\ycapptostyle}{m m}{%
194 \pgfkeys{%
195 /ycards/#1/.append style = {#2}%
196 }%
197 }

```

```
\ycapplystyle
198 \DeclareDocumentCommand{\ycapplystyle}{m}{%
199 \pgfkeys{/ycards/#1}%
200 }
```

3.5 Default Styles

```
noborder
201 \ycnewstyle{noborder}{%
202 line width=0mm,%
203 }
```

```
inversed
204 \ycnewstyle{inversed}{%
205 content/color=white,
206 background/color=black,
207 }
```

```
inversedmaincolor
208 \ycnewstyle{inversedmaincolor}{%
209 content/color=white,
210 background/color=mainColor,
211 }
```

3.6 Shortcut commands

```
\ycard
212 \DeclareDocumentCommand{\ycard}{O{} O{} m}{%
213 @yc@card@skeleton{#1}{#2}{#3}%
214 }
```