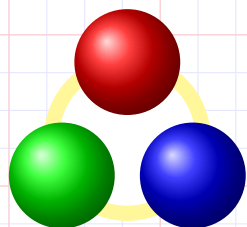


# 1 `tcolorbox` 代码块测试

## 1.1 `tcolorbox` 代码块测试

### 1.1.1 `tcolorbox` 代码块测试

```
./main.tex latex
1 % 空格是必须的, 否则会吞掉第一个命令
2 % 代码块中高亮行的行号也能被高亮。
3 % 代码来自 https://tex.stackexchange.com/questions/741923
4 % 相关的库 : minted , fbextra , fancyvrb , etoolbox
5
6
7
8 \begin{tikzpicture}
9 \path[fill=yellow!50!white] (0,0) circle (11mm);
10 \path[fill=white] (0,0) circle (9mm);
11 \foreach \w/\c in {90/red,210/green,330/blue}
12 {\path[shading=ball,ball color=\c] (\w:1cm) circle (7mm);}
13 \end{tikzpicture}
```



- 下面是一个列表测试项

```
test.hs haskell
1 module Main where
2
3 import Lib
4 import Control.Lens
5
```

```
test.hs haskell
6 main :: IO ()
7 main = someFunc
8
9 lst = [x| x <- ['a'..'z']]
```

左侧的  $\text{\LaTeX}$  语言高亮似乎有些问题, 这个应该是 Pygments 的锅。

```
racket
1 ;; 过程合约 : in-S? : Natural → Bool
2 ;; 过程用途 : (in-S? n) = #t 仅当 n 属于 S, 否则为 #f
3 ;; 实参语法 : Natural ::= 0 | (succ Natural)
4 (define in-S?
5   (lambda (n)
6     (if (zero? n) #t
7         (if (>= (- n 3) 0) (in-S? (- n 3))
8             #f))))
```

泥濘! 我是沉积岩! 下面是一段一段测试文字: `lst = [x| x <-`

`['a'..'g']] -- by 沉积岩 tcolorbox`

```
test.lean lean4
1 theorem funext {f1 f2 : ∀ (x : α), β x} (h : ∀ x, f1 x = f2
  ↪ x) : f1 = f2 := by
2   show extfunApp (Quotient.mk' f1) = extfunApp (Quotient.mk'
  ↪ f2)
3   apply congrArg
4   apply Quotient.sound
5   exact h
```

200

180

160

140

120

100

80

60

40

mm

40

60

80

100

120

140

160

180

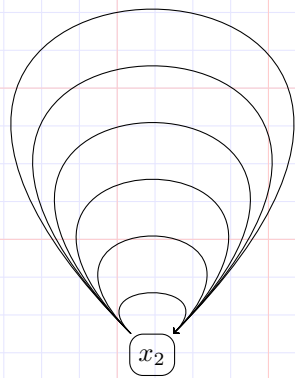
200

220

240

260

280



2

$\text{\textbackslash test}$	Opr	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]$	$\overrightarrow{D}$
$\text{\textbackslash test}\langle\{x_u\}$	$x_u \text{Opr}$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}$	$x_u \overrightarrow{D} \_$
$\text{\textbackslash test}\langle\{x_u\}\langle\{y_u\}$	$y_u x_u \text{Opr}$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}\langle\{y_u\}$	$x_u \overrightarrow{D} y_u$
$\text{\textbackslash test}\langle\{x_u\}\langle\{y_u\}p$	$(y_u x_u \text{Opr})$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}\langle\{y_u\}p$	$(x_u \overrightarrow{D} y_u)$
$\text{\textbackslash test}\langle\{x_u\}p$	$(x_u \text{Opr})$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}p$	$(x_u \overrightarrow{D} \_)$
$\text{\textbackslash test}\langle\{x_u\}p\langle\{y_u\}$	$y_u (x_u \text{Opr})$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}p\langle\{y_u\}$	$y_u (x_u \overrightarrow{D} \_)$
$\text{\textbackslash test}\langle\{x_u\}p\langle\{y_u\}p$	$(y_u (x_u \text{Opr}))$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\{x_u\}p\langle\{y_u\}p$	$(y_u (x_u \overrightarrow{D} \_))$
$\text{\textbackslash test}\langle\langle\{y_u\}$	$y_u \_ \text{Opr}$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}$	$\_ \overrightarrow{D} y_u$
$\text{\textbackslash test}\langle\langle\{y_u\}\langle\{x_u\}$	$x_u y_u \text{Opr}??$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}\langle\{x_u\}$	$x_u \_ \overrightarrow{D} y_u??$
$\text{\textbackslash test}\langle\langle\{y_u\}\langle\{x_u\}p$	$(y_u x_u \text{Opr})??$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}\langle\{x_u\}p$	$(x_u \overrightarrow{D} y_u)??$
$\text{\textbackslash test}\langle\langle\{y_u\}p$	$(y_u \_ \text{Opr})$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}p$	$(\_ \overrightarrow{D} y_u)$
$\text{\textbackslash test}\langle\langle\{y_u\}p\langle\{x_u\}$	$x_u (y_u \_ \text{Opr})$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}p\langle\{x_u\}$	$x_u (\_ \overrightarrow{D} y_u)$
$\text{\textbackslash test}\langle\langle\{y_u\}p\langle\{x_u\}p$	$(x_u (y_u \_ \text{Opr}))$	$\text{\textbackslash catExp}[\text{\textbackslash cat D}]\langle\langle\{y_u\}p\langle\{x_u\}p$	$(x_u (\_ \overrightarrow{D} y_u))$

a , b , c , d , C

f , F , η

