Latex in Examples



Thanks to me

Examples in this book is updated every week.

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```
\label{eq1} $$ \left\{ eq1 \right\} \left\{ eq1 \right\}
```

CORRECT paste code from examples

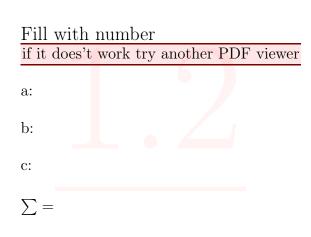
Math Tips

1.1 Auto-resizing equation

$$\dot{\rho} = \frac{x^3}{45a^9 - 23b}$$

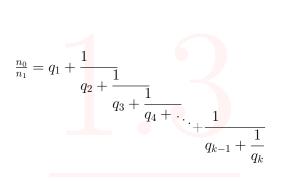
 $\begin{equation*} \label{eq1} $$\operatorname{dot}_{-4 \text{ textwidth}}_{-23b}^{ \infty} = \operatorname{dfrac}_{x^3}_{45a^9-23b}^{ \infty} \\ \operatorname{equation*} \end{equation*}$

1.2 Form for simplest calculation



```
documentclass{article}
usepackage{hyperref}
begin{document}
\begin{Form}
\noindent%
Fill with number\\
\TextField[name=a]{a:} \\
\text{TextField[name=b]{b:} }
TextField[name=c]{c:} \\
\noindent%
\sum = \frac{\text{Num} = \text{Num}}{\text{Iname}}
 event.value = (
    \langle sss\{a\} +
   \backslash sss\{b\} +
   \backslash sss\{c\});
\}, readonly, value=0|{}
\end{Form}
\end{document}
```

1.3 Equation in the form of steps



```
documentclass{article}
   usepackage{amsmath}
   def\mywd{35pt}
\begin{document}
                   \label{eq:local_state} $$ \frac{n_0}{n_1} = q_1 + \frac{\sqrt{\frac{n_0}{n_1}}}{q_1} = q_1 + \frac{\sqrt{\frac{n_0}{n_1
                                                                 \hookrightarrow $1$}}
                 {\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mbox[\mb
                   {\makebox[\mywd][l]{\q} 3 + \dfrac{\makebox[\mywd][l]}{}}
                                                                   \hookrightarrow $1$}}
                   {\mbox[\mbox[\mbox]][l]{$q_4 + }
                              \rightarrow \text{kern30pt\$}
                   \{q \{k-1\} + dfrac\{1\}\}
                 \{q_k\}$$
\end{document}
```

1.4 One number for multiline equation

$$x_{ij} = d_{ijk}E_k,$$

$$x_{ij} = \varsigma_{ijk}H_k,$$

$$x_{ij} = s_{ijkl}X_{kl},$$

$$x_{ij} = \xi_{ij}\delta p,$$

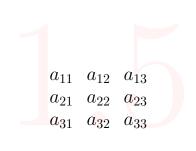
$$x_{ij} = \alpha_{ij}\delta T$$

$$(1.1)$$

```
\documentclass{article}
\usepackage{amsmath}
\begin{document}
\begin{equation}
\begin{aligned}

x_{ij} &= d_{ijk}E_k, \\
x_{ij} &= \varsigma_{ijk}H_k, \\
x_{ij} &= s_{ijkl}X_{kl}, \\
x_{ij} &= \xi_{ij} \delta p, \\
x_{ij} &= \alpha_{ij} \delta T
\end{aligned}
\end{equation}
\end{document}
```

1.5 Matrix in standalone document class



Symbols

2.1 New section symbol



```
\usepackage[object=vectorian]{pgfornament}
\usepackage{lipsum,tikz}
\newcommand{\sectionlinetwo}[2]{\%}
\nointerlineskip \vspace{.5\baselineskip}\hspace{\fill}
{\color{\#1}\resizebox{0.5\linewidth}{2ex}
{\{\begin{tikzpicture}}
\node (C) at (0,0) {\};\node (D) at (9,0) {\};\path (C) to [ornament=\#2] (D);\end{tikzpicture}}\}}\%
\hspace{\fill}\par\nointerlineskip
\vspace{.5\baselineskip}}
\%usage---> \sectionlinetwo{orange}{88}
```

2.2 New section symbol

Ulem:

striked out text crossed out text important urgent boat dashing dotty

Cancel:

```
text text text value value
```

```
\documentclass[a4paper,11pt]{article}
\usepackage[utf8]{inputenc}
\usepackage{setspace}
\usepackage{ulem}
\usepackage{cancel}

\begin{document}
\textbf{Ulem:}
\sout{striked out text} \xout{crossed out text}
\uline{important} \uline{urgent} \uwave{boat}
\dashuline{dashing} \dotuline{dotty} \\
\textbf{Cancel:}
\text \cancel{text} \bcancel{text}
\$\cancelto{\text} \cancel{text}
\$\cancelto{\text} \frac{num1}{den1}} \$\end{document}
```

Code, listings, minted ...

3.1 Code listing using minted in beamer



```
documentclass{beamer}
usepackage{amsmath}
\usepackage{tcolorbox}
tcbuselibrary{minted,skins,breakable}
newtcblisting{pythoncode}[2][]{
 listing engine=minted, breakable, colback=bg,
 colframe=black!70, listing only,
 minted style=colorful, minted language=python,
 minted options={numbersep=3mm,texcl=true,#1},
 left=5mm,enhanced,
 overlay={\begin{tcbclipinterior}\fill[black!25] (frame.south west)
rectangle ([xshift=5mm]frame.north west);\end{tcbclipinterior}},
\#2,}
\begin{document}
\begin{frame}[fragile]
    \frametitle{Premature Optimization}
    \begin{pythoncode} [linenos=true,] {title=Python Code}
        \hookrightarrow Example}
   import glob
    \end{pythoncode}
\end{frame}
\end{document}
```

3.2 "Zebra" style listing

```
/**

* Prints Hello World.

**/
#include <stdio.h>

int main(void) {
    printf("Hello World!");
    return 0;
}
```

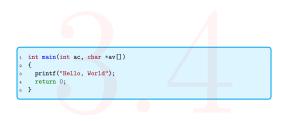
```
\documentclass{article}
  \usepackage[T1]{fontenc}
  \usepackage{beramono}
  \usepackage{listings}
  \usepackage{xcolor}
  \newcommand\realnumberstyle[1]{}
  \makeatletter
  \newcommand{\zebra}[3]{%
                      {\realnumberstyle{#3}}%
                      \begingroup
                     \label{lem:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma
                                        \color{#1}%
                                        \color{#2}%
                                        \label{lem:lap} $$ \Gamma_{\infty}(\st@numbersep)% $$
                                         \verb|\color@block{\linewidth}{\ht\strutbox}{\dp\strutbox}|
                     \endgroup}
  \makeatother
  \begin{document}
 \begin{lstlisting}[language=C,basicstyle=\ttfamily,
numberstyle=\zebra{green!35}{yellow!35},numbers=left]
  * Prints Hello World.
 #include <stdio.h>
int main(void) {
   printf("Hello World!");
 \end{document}
```

3.3 Listing with russian language



```
documentclass{article}
   usepackage[T2A]{fontenc}
   usepackage[utf8]{inputenc}
  \usepackage[russian]{babel}
   usepackage{listings}
  \usepackage{xcolor}
 \begin{document}
 \lstset{ keepspaces=true,
backgroundcolor=\color{blue},
showstringspaces=false,
language=C,
extendedchars=\true,
framexrightmargin=0pt,
framexleftmargin=0pt,
framextopmargin=15pt,
framexbottommargin=15pt,
frame=tb, framerule=0pt,
basicstyle=\color{yellow}\ttfamily\small}
begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{begin{bee}b}}}}}}}}}}
print("English comment"); // English comment
print("Russian comment"); // %here can be russian words
end{lstlisting}\% <<<<<< add "/"
 \end{document}
```

3.4 Listing with minted



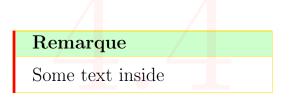
```
\documentclass{article}
\usepackage[many]{tcolorbox}
\tcbuselibrary{minted}
\newtcblisting{mylisting}{
    colframe=cyan,
    colback=cyan!10,
    listing only,
    listing engine=minted,
    minted language=cpp,
    minted options={fontsize=\small,linenos,numbersep=3mm},
}
\begin{document}
    begin{mylisting}
    some code
    \end{mylisting}
\end{document}
\end{document}
```

Tables, boxes and so on

4.1 Nice tcolorbox



4.2 Color box with yellow border



```
documentclass[border=2mm]{standalone}
 usepackage[most]{tcolorbox}
usepackage{lipsum}
\newtcolorbox{mycolorbox}[1]{
   enhanced, breakable,
   title=#1, colback=white,
   colbacktitle=green!20!white,
   coltitle=black,
   fonttitle = \backslash bfseries,
   boxrule=.5pt, arc=0pt,
   outer arc=0pt,
   colframe=yellow!80!orange,
   borderline west={2pt}{0pt}{red}}
begin{document}
begin{mycolorbox}{Remarque}
\lceil \lim_{n \to \infty} [1]
\end{mycolorbox}
end{document}
```

4.3 A drop capital in a toolorbox

Some text. Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

```
\documentclass{article}
\usepackage{lettrine}
\usepackage{tcolorbox}
\usepackage{lipsum}

\begin{document}
\begin{tcolorbox}
\lettrine{S}{ome} text. \lipsum[1]
\end{tcolorbox}
\end{document}
```

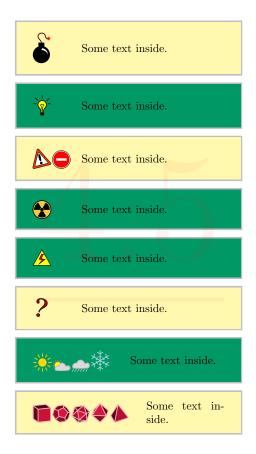
4.4 Table with the desired length.



a command was also created to make a new cell view in the table

```
\usepackage{graphicx}
\usepackage{tabularx}
\newcolumntype{Y}{>{\centering\arraybackslash}X}
\begin{document}
\begin{table}[h!]
\begin{center}
\caption{\textbf{Caption}}
\begin{tabularx}{14cm}{|Y|C|Y|Y|}
\hline
\Variant & res & Veriaty of waters $f_0$, res & C, res & L, res\\hline
5 & 1 & 2 & 1.26 & 5\\
\hline
\end{tabularx}
\end{center}
\end{table}
```

4.5 bclogo – Creating colourful boxes with logos



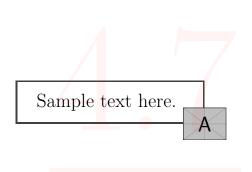
```
documentclass{article}
 usepackage{geometry}
\geometry{
paperwidth=8cm,
paperheight=14cm,
\frac{\text{margin}=0.5\text{cm}}{}
 usepackage{xcolor}
usepackage[most]{tcolorbox}
usepackage[tikz]{bclogo}
 newtcolorbox\{framedd\}[1][]{
 colframe=lightgray,
  colback=yellow!40!white,
 enhanced jigsaw,
 sharp corners,
 lower separated=false,
  lefthand width=1cm,
  sidebyside gap=0.5cm,
 sidebyside, #1
 begin{document}
 begin{framedd}
  \bcbombe \tcblower Some text inside.
\end{framedd}
\begin{framedd}[colback=blue!40!green]
  \bclampe \tcblower Some text inside.
\end{framedd}
\begin{framedd}
  \bcattention \bcinterdit \tcblower
 Some text inside.
 end{framedd}
 \begin{array}{l} \label{lem:colback=blue!40!green} \ \ \ \ \ \ \ \ \ \ \end{array}
   \bcnucleaire \tcblower
  Some text inside.
\end{framedd}
\begin{framedd}[colback=blue!40!green]
 \bcdanger \tcblower
 Some text inside.
 end\{framedd\}
 begin{framedd}
  \bcquestion \tcblower
  Some text inside.
\end{framedd}
\begin{framedd}[colback=blue!40!green, lefthand width=2.5cm]
  \bcsoleil \bceclaircie \bcpluie \bcneige \tcblower
 Some text inside.
end\{framedd\}
begin{framedd}[lefthand width=3cm]
  \bccube \bcdodecaedre \bcicosaedre \bcoctaedre \bctetraedre \tcblower
 Some text inside.
\end{framedd}
end{document}
```

4.6 Warning banner



```
usepackage[utf8]{inputenc}
 usepackage[T1]{fontenc}
\usepackage[most]{tcolorbox}
definecolor{orang}{RGB}{255,155,0}
\newtcolorbox[auto counter,number within=section]{caja}[1][]{
enhanced jigsaw,colback=white,colframe=orang,coltitle=orang,
fonttitle=\bfseries\sffamily,
sharp corners,
detach title,
leftrule=10mm,
% What you need %%%%%%%%%%%%%%%%
underlay unbroken and first={\node[below,text=black,anchor=east]
at ([xshift=-5.5pt]interior.base west) {\Huge \textbf{!}};},
breakable,pad at break=1mm,
#1,
code = { \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \right\} \right\} \right\} \right\} \right\} \right\} \right\} \right\} } 
    \hookrightarrow tcbtitle\par\medskip\}\}\},
\begin{document}
\begin{caja}[title=warning]
The vertical alignment settings
\end{caja}
end{document}
```

4.7 Photo positioning



4.8 Absolutely centered cells (vertically and horisontally)

all	in	cells
are 🗸	centered	vertically
and	horisontally	Σ

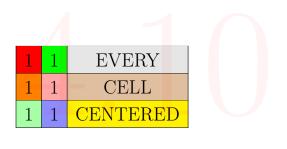
\documentclass{article}			
\usepackage{float}			
\usepackage{array, makecell}			
\setcellgapes{5pt}			
\begin{document}			
$\begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array}$			
\center			
makegapedcells			
$\left\{ c c c c c \right\}$			
\hline			
$1\&1\&1\&1\setminus\setminus$ hline			
$1&1&1&1\setminus\setminus$ hline			
1&1&1&1\\ \hline			
\end{tabular}			
$\ensuremath{\mbox{end}\{ able\}}$			
\end{document}			

4.9 Martix made of table

```
d_{n+1} = \begin{bmatrix} a_{1,1} & \dots, a_{1,n} & 0 \\ a_{1,1} & \dots, a_{1,n} & 0 \\ \dots & \dots & \dots \\ a_{1,1} & \dots, a_{1,n} & 0 \\ \vdots & \vdots & \ddots & \vdots \\ a_{1,1} & \dots, a_{1,n} & 0 \\ \vdots & \vdots & \ddots & \vdots \\ a_{1,1} & \dots, a_{1,n} & 0 \end{bmatrix} = 0
```

```
documentclass[a4paper,14pt]{extreport}
begin{document}
\begin{table}[]
\begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array}
& $a \{1,1\}$ & $\\dots, a \{1,n\}$ & 0 & \\
& a_{1,1} & \cdot dots, a_{1,n} & 0 & \
& \mbox{multicolumn}{3}{l|}{\dotfill} & \
& $a \{1,1\}$ & $\\dots, a \{1,n\}$ & 0 & \\
d_{n+1} & & & & & = \overline{p} pm 2ad_n$ = 0 \
& a_{1,1} & dots, a_{1,n} & 0 & \\
& $a_{1,1}$ & $\\dots, a_{1,n}$ & 0 & \\
& a_{1,1} & \cdot a_{1,n} & 0 & \
\end{tabular}
\end{table}
\end{document}
```

4.10 Centering cells with NiceTabular



```
documentclass{article}
usepackage[table]{xcolor}
usepackage{nicematrix}
\NiceMatrixOptions{cell-space-top-limit=5pt,cell-space-bottom-
   \hookrightarrow limit=5pt
begin{document}
\begin{table}[htbp]
centering
\operatorname{begin}\{\operatorname{NiceTabular}\}\{|c|c|c|\}
hline
\cellcolor{red}1\&\cellcolor{green}1\&\ 1\ \ \ \
\cellcolor{green!35}1 \& \cellcolor{blue!45}1 \& 1 \ \ \
end{NiceTabular}
\end{table}
end{document}
```

4.11 Centered cells in longtable

Enum	Example	Description
1	test	Quisque facilisis auctor sapien. Pellentesque gravida hendrerit lectus. Mauris rutrum sodales sapien. Fusce hendrerit sem vel lorem. Integer pellentesque massa vel augue. Integer elit tortor, feugiat quis, sagitisi et, ornare non, lacus. Vestibulum posuere pellentesque eros. Quisque venenatis ipsum dictum nulla. Aliquam quis quam non metus eleifend interdum. Nam eget sapien ac mauris malesuada adipiscing. Etiam eleifend neque sed quam. Nulla facilisi. Proin a ligula. Sed id dui eu nibh egestas tincidunt. Suspendisse arcu.
2a	test	Quisque facilisis auctor sapien. Pellentesque gravida hendrerit lectus. Mauris rutrum sodales sapien. Fusce hendrerit sem vel lorem. Integer pellentesque massa vel augue. Integer elit tortor, feugiat quis, sagittis et, ornare non, lacus. Vestibulum posuere pellentesque eros. Quisque venenatis ipsum dictum nulla. Alfquam quis quam non metus eleifend interdum. Nam eget sapien ac mauris malesuada adipiscing. Etiam eleifend neque sed quam. Nulla facilisi. Proin a ligula. Sed id dui eu nibh egestas tincidunt. Suspendisse arcu.
		Quisque facilisis auctor sapien. Pellentesque gravida hendrerit lectus. Mauris rutrum sodales sapien. Fusce hendrerit sem vel lorem. Integer pellentesque massa
2b	test	vel augue. Integer elit tortor, feugiat quis, sagittis et, ornare non, lacus. Vestibulum posuere pellentesque eros. Quisque venenatis ipsum dictum nulla. Aliquam quis quam non metus eleifend interdum. Nam eget sapien ac mauris malesuada adipiscing. Etiam eleifend neque sed quam. Nulla facilisi. Proin a ligula. Sed id dui eu nibh egestas tincidunt. Suspendisse arcu.

F			
\documentclass{article}			
$\usepackage[left=1.5cm, right=1.5cm,$			
top=1.5cm,bottom=2cm,bindingoffset=0cm]{geometry}			
\usepackage{float}			
\usepackage{array, makecell}			
\usepackage[utf8]{inputenc}			
\usepackage{lipsum}			
\usepackage{booktabs}			
\usepackage{multirow}			
\usepackage{pdflscape}			
\usepackage{longtable, array}			
\begin{document}			
\begin{landscape}			
$\begin{longtable}{@{}} *{2}{m{.15}paperwidth}} *{1}{m{.40}}$			
\hookrightarrow paperwidth} @{}}			
\endfirsthead			
endhead			
toprule			
\textbf{Enum} & \textbf{Example} & \textbf{Description} \\			
midrule			
1 & test & $\lceil 50 \rceil \setminus \rceil$			
midrule			
$2a \& test \& \lipsum[50] \setminus$			
2b & test & \lipsum[50]\\			
\bottomrule			
\end{longtable}			
\end{landscape}			
\end{document}			

4.12 If table is not wide enough

	Item1	Item2	Item3
Group	1 0.8	0.1	0.1
Group?	20.1	0.8	0.1
Group:	30.1	-0.1	0.8
Group ²	40.34	0.33	0.33

```
documentclass{article}
usepackage[left=1.5cm,right=1.5cm,
top=1.5cm,bottom=2cm,bindingoffset=0cm]{geometry}
\usepackage{graphicx}
\usepackage{booktabs}
\usepackage{tabularx}
\begin{document}
\begin{table}[!ht]
\caption{Vertical and lateral stresses of mortar.}
vspace{0.5cm}
\left( \frac{tabularx}{tx} \right) 
      & Item1 & Item2 & Item3 \\ \midrule
Group1 & 0.8 & 0.1 & 0.1 \\
Group2 & 0.1 & 0.8 & 0.1 \\
Group3 & 0.1 & 0.1 & 0.8 \\
Group4 & 0.34 & 0.33 & 0.33 \\ \bottomrule
\end{tabularx}
\left| \left| c \right| \right|
\end{table}
\end{document}
```

4.13 Text next to a table

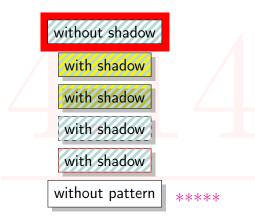


```
documentclass[a4paper,14pt]{extreport}
 usepackage[left=1.5cm,right=1.5cm,top=1.5cm,bottom=2cm,

→ bindingoffset=0cm]{geometry}

\usepackage{lipsum}
\begin{document}
\left[ \frac{minipage}{m} \right] = 0.58 \right]
text text text
end{minipage}
hspace{0.2cm}
\operatorname{begin}\{\min_{m=0.40 \text{ textwidth}}\}
\left( \frac{c|c|c}{c|c|} \right)
\hline
1 & 22 & 333 & \\ \hline
  & & & \setminus \setminus hline
  & & & \\ \hline
 & & & \setminus \setminus hline
\end{tabular}
\end{minipage}
\end{document}
```

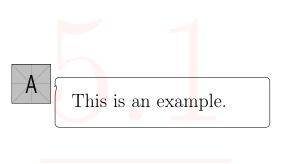
4.14 Text next to a table



```
documentclass[tikz,border=5mm]{standalone}
   usetikzlibrary{chains,patterns,shadows,fit,backgrounds}
 makeatletter
 \tikzset{% customization of pattern
                                 % based on <m.wibrow@gm...> - 2013-03-24 07:20:
                              hatch distance/.store in=\hatchdistance,
                             hatch distance=5pt,
                              hatch thickness/.store in=\hatchthickness,
                              hatch thickness=5pt
\pgfdeclarepatternformonly[\hatchdistance,\hatchthickness]{north east hatch
                   \hookrightarrow \gamma \quad name
               {\left\{\begin{array}{c} pgfqpoint{-1pt}{-1pt}}\% \text{ below left} \right\}}
               {\left\{\begin{array}{c} \left( \right) \\ \left( \right
               {\bf \{\pdfpoint\{\hatchdistance-1pt\}\{\hatchdistance-1pt\}\}\%}
                              \pgfsetcolor{\tikz@pattern@color}
                              \pgfsetlinewidth{\hatchthickness}
                              \protect\operatorname{pgfqpoint}\{0pt\}\{0pt\}\}
                               \pgfusepath{stroke}
makeatother
 \begin{document}
   \begin{tikzpicture}
             start chain=going below,
              node distance=2mm,
              Node/.style = \{minimum \ width = \#1, \}
                                                                       shape=rectangle,
                                                                       draw, fill=white,
                                                                       on chain},
              Pattern/.style = {pattern=north east hatch,
                                                                           pattern color=teal!30,
                                                                           hatch distance=7pt,
                                                                           hatch thickness=2pt},
              font = \backslash small \backslash sffamily]
              \node[Node=24mm, Pattern,
                                            preaction={fill=white}] (a) {without shadow};
               \begin{scope}[on background layer]
                              \ensuremath{\ensuremath{\mathsf{end}}}
              \node[Node=24mm, drop shadow,
                                             preaction={fill=yellow}, Pattern| (b) {with shadow};
              \node[Node=24mm, preaction={fill=yellow},
                                             drop shadow, Pattern (b) {with shadow};
              \node[Node=24mm, postaction={Pattern},
                                             drop shadow] (b) {with shadow};
              \node[Node=24mm, postaction={draw=red, Pattern},
                                             drop shadow] (b) {with shadow};
              \node[Node=24mm, drop shadow] (c) {without pattern};
  \end{tikzpicture}
 \end{document}
```

Figures

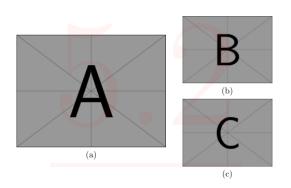
5.1 Comment to figure



```
\documentclass{article}
\usepackage{tikz}
\usetikzlibrary{shapes.callouts}

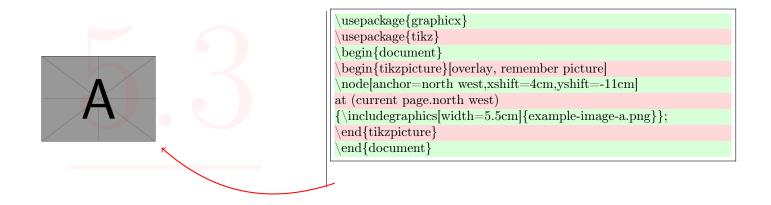
\begin{document}
\begin{tikzpicture}
\node [anchor=south west] at (0, 0) (cartoon) {\includegraphics[width]
\leftimes = .15\textwidth,height=.15\textwidth]{example-image-a}};
\node [anchor=north west,rectangle callout,draw=black,
callout absolute pointer=(cartoon.east),
rounded corners=3pt,text width=0.7\textwidth, inner sep=2ex] at (.19\
\leftimes textwidth,.125\textwidth) {This is an example.};
\end{tikzpicture}
\end{document}
```

5.2 Positioning $1 \mid 2$

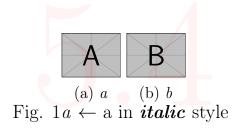


```
documentclass{article}
usepackage{graphicx}
usepackage{subfig}
begin{document}
\operatorname{begin}\{\operatorname{figure}\}[\operatorname{htp}]
centering
begin{tabular}{@{}c@{}}
end{tabular}\qquad % some space
\operatorname{begin}\{\operatorname{tabular}\{@\{\}c@\{\}\}\}
\operatorname{subfloat}\{\operatorname{includegraphics}[\operatorname{width}=0.3]\
\end{tabular}
\caption{Caption.}
\end{figure}
end{document}
```

5.3 Placing image anywhere You want



5.4 Italic sabfigure references



```
documentclass{article}
           usepackage{graphicx}
        usepackage{subcaption}
     \renewcommand\thesubfigure\{\itshape\alph\subfigure\}\} \%<--- added
     begin{document}
  \begin{figure}
     centering
     begin{subfigure}{.25\textwidth}
     centering
  \includegraphics[width=.6\linewidth]{example-image-a}
     \operatorname{caption}\{ \operatorname{textit}\{a\} \}
  \left\{1a\right\}
        end{subfigure}%
        \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\
  \includegraphics[width=.715\linewidth]{example-image-b}
  \operatorname{caption}\{ \operatorname{textit}\{b\} \}
  \left\{1b\right\}
  \end{subfigure}
  \caption{ }
  \label{fig1}
  end{figure}
  Fig. \left\{1a\right\}  \ in \left\{\text{textit}\left\{\text{italic}\right\}\right\} style
\end{document}
```

Numbering, enumeration, itemizing

6.1 Numbering in few columns

6.2 Enumeration environment with position number in the format (i, j)

- (1) First level-one item
 - (1,1) First level-two item
 - (1,2) Second level-two item
- (2) Second level-one item
 - (2,1) Still another level-two item

```
\documentclass{article}
\renewcommand{\theenumii}{(\arabic{enumi},\arabic{enumii}))} \renewcommand{\labelenumii}{\theenumii} \renewcommand{\labelenumii}{\theenumii}
makeatletter
\renewcommand{\p@enumii}{}
makeatother
\begin{document}
\begin{enumerate}
\item First level-one item
  \begin{enumerate}
  \item First level-two item
  \item Second level-two item
  \end{enumerate}
\item Second level-one item
  begin{enumerate}
  \item Still another level-two item
  \end{enumerate}
\end{enumerate}
\end{document}
```

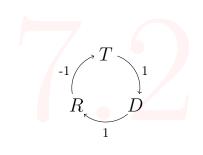
Plots, tikz, pie charts ...

7.1 Simple pie chart



```
\documentclass[border=0.2cm]{standalone}
\usepackage{pgf-pie}
\begin{document}
\begin{tikzpicture}
\pie{22.97/Los Angeles Lakers,
22.97/Boston Celtics,
8.11/Golden State Warriors,
8.11/Chicago Bulls,
6.76/San Antonio Spurs,
31.07/Other Teams}
\end{tikzpicture}
\end{document}
```

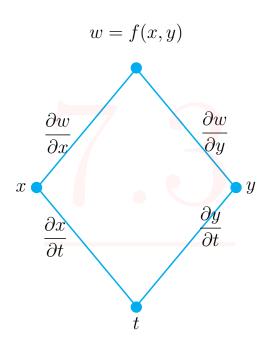
7.2 Circled arrows with text



```
\documentclass{article}
\usepackage{tikz}

\begin{document}
\begin{tikzpicture}[->,scale=.7]
\node (i) at (90:1cm) {$T$};
\node (j) at (-30:1cm) {$D$};
\node (k) at (210:1cm) {$R$};
\node (k) at (210:1cm) f$R$};
\draw (70:1cm) arc (70:-10:1cm) node[midway, right] {{\footnotesize 1}};
\draw (-50:1cm) arc (-50:-130:1cm) node[midway, below] {{\footnotesize 1}};
\draw (190:1cm) arc (190:110:1cm) node[midway, left] {{\footnotesize -1}};
\end{tikzpicture}
\end{document}
```

7.3 Diamond with text



```
\documentclass[a4paper,14pt]{extreport}
\label{lem:condition} $$ \usepackage[left=1.5cm,right=1.5cm,top=1.5cm,bottom=2cm,bindingoffset=0] $$

→ cm]{geometry}
\usepackage{amsmath}
 usepackage{tikz}
\usetikzlibrary{shapes.geometric}
\begin{document}
\begin{tikzpicture}
\node[diamond,font=\small,
line width=0.4mm, scale=0.7,
    draw = cyan, minimum width = 7.5cm, %text = red,
    minimum height = 9cm] (d) at (0,0) { };
      \node [above=0.5cm] (a) at (d.90) \{w = f(x,y)\};
      \node [above=0.5cm,right=0.1cm] (b) at (d.45) {\frac{\partial w}{(d.45) }}
            \hookrightarrow partial y}$};
       \label{local_node_solution} $$  [above=0.5cm, left=0.1cm] (c) at (d.135) {$\dfrac{\hat \varphi_{v}} } $$
            \hookrightarrow partial x}$};
      \node [left=0.1cm] (dd) at (d.180) {$x$};
      \node [right=0.1cm] (e) at (d.0) \{\$y\$\};
      \node [below=0.1cm] (f) at (d.270) {$t$};
      \hookrightarrow partial t}$};
      \node [below=0.5cm,left=0.1cm] (h) at (d.220) {\frac{\color{0.5cm},\color{0.5cm}}{\color{0.5cm}}}
            \hookrightarrow partial t\$;
      \node at (d.90) [cyan,circle,fill,inner sep=3pt]{};
      \node at (d.180) [cyan,circle,fill,inner sep=3pt]{};
      \node at (d.0) [cyan,circle,fill,inner sep=3pt]{};
       \node at (d.270) [cyan,circle,fill,inner sep=3pt]{};
\end{tikzpicture}
\end{document}
```

Highlighting

8.1 Words highlighting 1

```
The quick brown fox jumps over the lazy dog.

The quick brown fox jumps over the lazy dog.
```

```
\documentclass{article}
\usepackage{tcolorbox}
\newtcbox{\mybox}[1][red]{on line,
\arc=0pt,outer \arc=0pt,colback=#1!10!\white,colframe=#1!50!\black,
\boxsep=0pt,left=1pt,right=1pt,top=2pt,\bottom=2pt,
\boxrule=0pt,\bottomrule=1pt,\toprule=1pt}
\newtcbox{\xmybox}[1][red]{\no line,
\arc=7pt,colback=#1!10!\white,colframe=#1!50!\black,
\before \upper={\rule[-3pt]{0pt}{10pt}},\boxrule=1pt,
\boxsep=0pt,left=6pt,right=6pt,top=2pt,\bottom=2pt}
\begin{\document}
\text{The \mybox[green]{quick} \brown \mybox{fox}...\par
\text{The \xmybox[green]{quick} \brown \xmybox{fox}} ...\end{\document}
\end{\document}
```

8.2 Unusual words highlighting

```
Here You can see something new.
```

```
\usepackage[many]{tcolorbox}
\newtcbox{\mylib}{enhanced,nobeforeafter, tcbox raise base, boxrule=0.4pt,

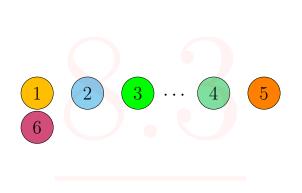
\top=0mm, bottom=0mm,
\text{right=0mm, left=4mm, arc=1pt, boxsep=2pt, before upper={\vphantom{dlg}

\top=\}}, colframe=green!50!black, coltext=green!25!black, colback=green

\top:\!10!white, overlay={\begin{tcbclipinterior} \fill[green!75!blue!50!

\top* white] (frame.south west) rectangle node[text=white,font=\sffamily\
\top* bfseries\tiny,rotate=90] {TYP} ([xshift=4mm]frame.north west);\
\top* end{tcbclipinterior}}}
\text{begin{document}
\mylib{recieve}
\end{document}}
\text{mylib{recieve}}
\end{document}
```

8.3 Colored circles



```
usepackage{tikz}
usepackage[framemethod=TikZ]{mdframed}
\usepackage{xcolor}
usetikzlibrary{calc}
makeatletter
\newlength{\mylength}
\xdef\CircleFactor{1.1}
\setlength\mylength{\dimexpr\f@size pt}
\newsavebox{\newbox{\newbox}}
\hookrightarrow WL1/}#1}}\setlength\mylength{\dimexpr\CircleFactor\dimexpr\ht\
     \begin{tabular}{l} \hookrightarrow \begin{tabular}{l} mybox+\dp\mybox\relax}\tikzset\{mystyle/.style=\{circle,\#1,
     → minimum height={\mylength}}} \tikz[baseline=(char.base)]
\node[mystyle] (char) {\#2};
\displaystyle \operatorname{definecolor}\{\operatorname{amber}\}\{\operatorname{rgb}\}\{1.0,\,0.75,\,0.0\}
\definecolor{babyblue}{rgb}{0.54, 0.81, 0.94}
usage --> \circled[fill=amber,draw=black]{1}
```

8.4 Whole line colored



```
\documentclass{article}
\usepackage{xcolor}
\newcommand{\hly}[2]{\colorbox{#1!80}{\parbox{\textwidth}{#2}}}
\begin{document}
%\hly{YOURcolor}{some text}
\hly{green}{some text}
\hly{yellow}{some text}
\hly{red}{some text}
\end{document}
```

For Fun

9.1 LaTeX Coffee Stains

Download coffee4.sty and putthe same directory



```
\documentclass{article}
\usepackage{tikz}
\usetikzlibrary{fadings, shadings}
\stepcounter{fadcnt}
     \begin{tikzfadingfrompicture}[name=fading letter\thefadcnt]
        \node[text=transparent!0,inner xsep=0pt,outer xsep=0pt,#1] {#3};
     end{tikzfadingfrompicture}%
    \begin{tikzpicture}[baseline=(textnode.base)]
         \node[inner sep=0pt,outer sep=0pt,\#1](textnode){\node}
         \shade[path fading=fading letter\thefadcnt, #2, fit fading=false]
        (textnode.south west) rectangle (textnode.north east);\%
    \end{tikzpicture}%
\usetikzlibrary{calc}
\newbox\shbox
\tikzset{%
    path picture shading/.style={%
   path picture=\{\%
\pgfpointdiff{\pgfpointanchor{path picture bounding box}{south west}}%
    {\bf \{pf point anchor \{path\ picture\ bounding\ box\}\{north\ east\}\}\%}
\verb|\pgfgetlastxy| pathwidth | pathheight\%|
\pgfinterruptpicture%
      \global\setbox\shbox=\hbox{\pgfuseshading}{\#1}}\%
  \endpgfinterruptpicture%
\protect{\box\shbox}\%
\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\pro
                         color(1.6667bp) = (blue);
                         color(3.3333bp)=(cyan);
                         color(5bp)=(green);
                         color(6.6667bp)=(yellow);
                         color(8.3333bp)=(orange);
                         color(10bp)=(red)
\begin{document}
  \fadingtext[scale=10, font=\bfseries]{upper left=red, upper right=green,
             \hookrightarrow lower left=blue,lower right=yellow}{\LaTeX}
\finterline{10, font=\bfseries]{path picture shading=rainbow}{}}
           \hookrightarrow \text{LaTeX}
\verb|\noindent| fading text[scale=0.7, font=|\bfseries] {path picture shading=}
            \rightarrow rainbow}{\parbox[b]{1.5\linewidth}{\strut\lipsum[1]}}
\end{document}
```

9.3 Sticky notes

9.4

firstsecond

```
\documentclass{article}
\usepackage{xparse}
\usepackage{fancypar}
\usetikzlibrary{calc,shadows}
begin{tikzpicture}
\node[
drop shadow={
shadow xshift=3pt,
inner xsep=0pt,
xslant = -0.1,
yslant=0.1,
inner ysep=0pt,
text depth = \\ \\ the\\ \\ dimexpr\#1 + 2.5ex\\ \\ relax
| {\parbox[t]|#1|c]{#3}{#2}};
| end{tikzpicture}%
\begin{document}
\StickyNoteP[2.5cm]{%
\NotebookPar[spiral=false]{
\LARGE\ first\ \ second\ \}\ [6.5cm]
\end{document}
```

qqqqqqqq

ppppppppppppppp