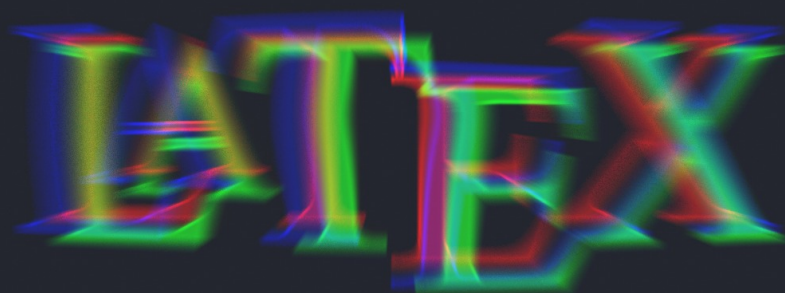


Latex in Examples

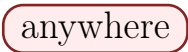



Thanks to me

Examples in this book is updated
every week.

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<pre>\begin{equation*}\label{eq1} \resizebox{.4\textwidth}{!}{ \$\dot{\rho}=\dfrac{x^3}{45a ,\rightarrow^9-23b}\$} \end{equation*}</pre>	<pre>\begin{equation*}\label{eq1} \resizebox{.4\textwidth}{!}{ \$\dot{\rho}=\dfrac{x^3}{45a ,\rightarrow^9-23b}\$} \end{equation*}</pre>	<pre>\begin{equation*}\label{eq1} \resizebox{.4\textwidth}{!}{ \$\dot{\rho}=\dfrac{x^3}{45a ^9-23b}\$} \end{equation*}</pre>
--	--	--

Figure 1: how CORRECT paste code from example

Chapter 1

Math Tips

1.1 Auto-resizing equation

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

```
\begin{equation*}\label{eq1}  
\resizebox{.4\textwidth}{!}{ % change .4 to 0.5...  
$\dot{\rho}=\dfrac{x^3}{45a^9-23b}$}  
\end{equation*}
```

1.2 Form for simplest calculation

Fill with number

if it doesn't work try another PDF viewer

a:

b:

c:

$\Sigma =$

```
\documentclass{article}  
\usepackage{hyperref}  
\begin{document}  
\newcommand{\sss}[1]{this.getField("#1").value}  
\begin{Form}  
\noindent%  
Fill with number\\  
  
\TextField[name=a]{a:} \\  
  
\TextField[name=b]{b:} \\  
  
\TextField[name=c]{c:} \\  
\noindent%  
$\sum = \$ \text{\TextField[name=AvgStat, calculate={  
event.value = (  
  \sss{a} +  
  \sss{b} +  
  \sss{c}) ;  
}, readonly, value=0]}$  
\end{Form}  
\end{document}
```

1.3 Equation in the form of steps

$$\frac{n_0}{n_1} = q_1 + \frac{1}{q_2 + \frac{1}{q_3 + \frac{1}{q_4 + \dots + \frac{1}{q_{k-1} + \frac{1}{q_k}}}}}$$

```
\documentclass{article}
\usepackage{amsmath}
\def\mywd{35pt}
\begin{document}
\[
 \frac{n_0}{n_1} = q_1 + \dfrac{\makebox[\mywd][l]{}}{}
 \rightarrow \$1\$)
 {\makebox[\mywd][l]{$q_2 + \dfrac{\makebox[\mywd][l]}{}
 \rightarrow \$1\$)}
 {\makebox[\mywd][l]{$q_3 + \dfrac{\makebox[\mywd][l]}{}
 \rightarrow \$1\$)}
 {\makebox[\mywd][l]{$q_4 + 
 \raisebox{-6pt}{$\ddots$}
 \raisebox{-12pt}{+}$\dfrac{\makebox[\mywd][l]}{}$\$1\backslash
 \rightarrow kern30pt$}}}
 {q_{k-1} + \dfrac{1}{{q_k}\}\}\}\}\}\}\}
\]
```

1.4 One number for multiline equation

$$\begin{aligned} x_{ij} &= d_{ijk} E_k, \\ x_{ij} &= \varsigma_{ijk} H_k, \\ x_{ij} &= s_{ijkl} X_{kl}, \\ x_{ij} &= \xi_{ij} \delta p, \\ x_{ij} &= \alpha_{ij} \delta T \end{aligned} \quad (1.1)$$

```
\documentclass{article}
\usepackage{amsmath}
\begin{document}
\begin{equation}
\begin{aligned}
x_{ij} &= d_{ijk}E_k, \\
x_{ij} &= \text{varsigma}_{ijk}H_k, \\
x_{ij} &= s_{ijkl}X_{kl}, \\
x_{ij} &= \text{xi}_{ij}\delta p, \\
x_{ij} &= \alpha_{ij}\delta T
\end{aligned}
\end{equation}
\end{document}
```

1.5 Matrix in standalone documentclass

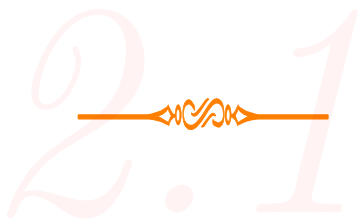
$$\begin{array}{ccc} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{array}$$

```
\documentclass[preview,border={-5cm 0cm -5cm -0.1cm}]{
  ↪ standalone}
\usepackage{amsmath}
\begin{document}
\begin{equation*}
\begin{matrix}
a_{11} & a_{12} & a_{13} \\
a_{21} & a_{22} & a_{23} \\
a_{31} & a_{32} & a_{33}
\end{matrix}
\end{equation*}
\end{document}
```

Chapter 2

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}
```

Chapter 3

Code, listings, minted ...

3.1 Code listing using *minted* in beamer



```
Python Code Example
1 import glob
2
```

```
\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
    ↪ 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}}%
  \begin{group}
  \lst@basicstyle
  \ifodd\value{lstnumber}%
    \color{#1}%
  \else
    \color{#2}%
  \fi
  \rlap{\hspace*{\lst@numbersep}%
    \color@block{\linewidth}{\ht\strutbox}{\dp\strutbox}%
  }%
  \end{group}
\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!");
    return 0;
}
\end{lstlisting}
\end{document}
```

3.3 Listing with russian language

```
print("English comment"); // English comment
print("Russian comment"); // Русский комментарий
```

```
\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,
framebottommargin=15pt,
frame=tb, framerule=0pt,
basicstyle=\color{yellow}\ttfamily\small}

\begin{lstlisting}% <<<<<<<<< add "/"
print("English comment"); // English comment
print("Russian comment"); // %here can be russian words
\end{lstlisting}% <<<<<<<<< add "/"

\end{document}
```

Chapter 4

Tables, boxes and so on

4.1 Nice tcolorbox

1	22
333	
Source	

```
\PassOptionsToPackage{svgnames}{xcolor}
\documentclass[twocolumn,a4paper]{article}
\usepackage{tcolorbox}
\tcbuselibrary{skins,breakable}
\usetikzlibrary{shadings,shadows}%preamble
\begin{tcolorbox}[colback=white!100,colframe=red!75!black,width
  ↳ =7cm,righttitle=0.5cm, subtitle style={boxrule=0.4pt,
  ↳ colback=yellow!50!red!25!white},title= \bf{1}\hfill \bf{22}]
  \begin{center}\bf{333}\end{center}
  \tcblower
  \href{https://tools.ietf.org/doc/texlive-doc/latex/tcolorbox
    ↳ /tcolorbox.pdf}{URL}
\end{tcolorbox}
```

4.2 empty

4.3 empty

4.4 *Table with the desired length.*

4.5 empty

Variant	res	Veriaty of waters f_0 , res	C, res	L, res
5	1	2	1.26	5

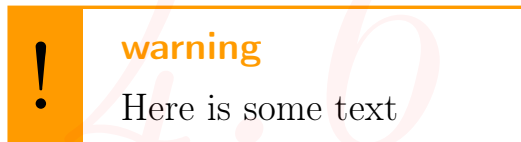
a command was also created to make a new cell view in the table

```

\usepackage{graphicx}
\usepackage{tabularx}
\newcolumntype{Y}{>{\centering\arraybackslash}X}
\begin{document}
\begin{table}[h!]
\begin{center}
\caption{\textbf{Caption}}
\begin{tabularx}{14cm}{|Y|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}

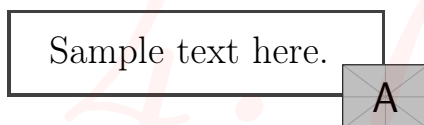
```

4.6 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={\ifdefempty{\tcbtitletext}{\tcbset{before upper={\
    ↳ tcbtitle\par\medskip}}},}
\begin{document}
\begin{caja}[title=warning]
The vertical alignment settings
\end{caja}
\end{document}
```

4.7 Photo positioning



```
\documentclass{article}
\usepackage[most]{tcolorbox}
\usepackage{graphicx}
\begin{document}
\begin{tcolorbox}[enhanced,sharp corners,
width={5cm},
colback=white,
overlay={\node at (frame.south east) {\includegraphics[scale=0.1]{
    ↳ example-image-a}};}]
Sample text here.
\end{tcolorbox}
\end{document}
```

4.8 Absolutely centered cells (vertically and horison- tally)

all	in	cells
are	centered	vertically
and	horisontally	Σ

```

\documentclass{article}
\usepackage{float}
\usepackage{array, makecell}
\setcellgapes{5pt}

\begin{document}
\begin{table}[H]
\center
\makegapedcells
\begin{tabular}{|c|c|c|c|}
\hline
1&1&1&1 \\ \hline
1&1&1&1 \\ \hline
1&1&1&1 \\ \hline
\end{tabular}
\end{table}

\end{document}

```

4.9 Martix made of table

$$d_{n+1} \begin{vmatrix} a_{1,1} & \dots, a_{1,n} & 0 \\ a_{1,1} & \dots, a_{1,n} & 0 \\ \dots\dots\dots \\ a_{1,1} & \dots, a_{1,n} & 0 \\ a_{1,1} & \dots, a_{1,n} & 0 \\ a_{1,1} & \dots, a_{1,n} & 0 \\ \dots\dots\dots \\ a_{1,1} & \dots, a_{1,n} & 0 \end{vmatrix} = 0$$

```

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

\end{document}

```

4.10 Centering cells with NiceTabular

1	1	EVERY
1	1	CELL
1	1	CENTERED

```

\documentclass{article}
\usepackage[table]{xcolor}
\usepackage{nicematrix}
\NiceMatrixOptions{cell-space-top-limit=5pt,cell-space-bottom-
    ↪ limit=5pt}

\begin{document}
\begin{table}[htbp]
\centering
\begin{NiceTabular}{|c|c|c|}
\hline
\cellcolor{red}1&\cellcolor{green}1&1 \\ \hline
\cellcolor{orange}1&\cellcolor{red!35}1&1 \\ \hline
\cellcolor{green!35}1&\cellcolor{blue!45}1&1 \\ \hline
\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, 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.
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. 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.
2b	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. 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.

```

\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{pdfscape}
\usepackage{longtable, array}

\begin{document}
\begin{landscape}
\begin{longtable}{@{} *{2}{m{.15\paperwidth}} *{1}{m{.40\paperwidth}} @{}}
\endfirsthead
\endhead
\toprule
\textbf{Enum} & \textbf{Example} & \textbf{Description} \\
\midrule
1 & test & \lipsum[50] \\
\midrule
2a & test & \lipsum[50] \\
2b & test & \lipsum[50] \\
\bottomrule
\end{longtable}
\end{landscape}
\end{document}

```

4.12 If table is not wide enough

	Item1	Item2	Item3
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

```

\documentclass{article}
\usepackage[left=1.5cm,right=1.5cm,
top=1.5cm,bottom=2cm,bindingsoffset=0cm]{geometry}
\usepackage{graphicx}
\usepackage{booktabs}
\usepackage{tabularx}

\begin{document}

\begin{table}[!ht]
\caption{Vertical and lateral stresses of mortar.}
\vspace{0.5cm}
\begin{tabularx}{\textwidth}{X X X X}
& 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}
\label{c}
\end{table}

\end{document}

```

4.13 Text next to a table

text text text

1	22	333

```

\documentclass[a4paper,14pt]{extreport}
\usepackage[left=1.5cm,right=1.5cm,top=1.5cm,bottom=2cm,
↪ bindingsoffset=0cm]{geometry}
\usepackage{lipsum}

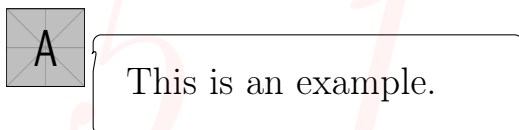
\begin{document}
\begin{minipage}[m]{0.58\textwidth}
text text text
\end{minipage}
\hspace{0.2cm}
\begin{minipage}[m]{0.40\textwidth}
\begin{tabular}{|c|c|c|}
\hline
1 & 22 & 333 \\ \hline
& & \\ \hline
& & \\ \hline
& & \\ \hline
\end{tabular}
\end{minipage}
\end{document}

```

Chapter 5

Figures

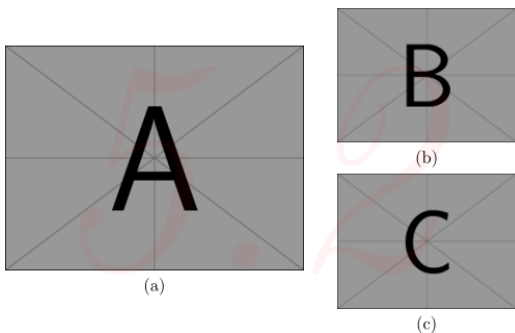
5.1 Comment to figure



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

\begin{document}
\begin{tikzpicture}
  \node [anchor=south west] at (0,0) (cartoon) {\includegraphics[width
    ↪=.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\
    ↪\textwidth,.125\textwidth) {This is an example.};
\end{tikzpicture}
\end{document}
```

5.2 Positioning 1 | 2



```
\documentclass{article}
\usepackage{graphicx}
\usepackage{subfig}
\begin{document}
\begin{figure}[htp]
\centering
\begin{tabular}{@{}c@{}}
\subfloat{\includegraphics[width=0.5\linewidth]{example-image-a.png}}\\ (a)
\end{tabular}
\quad % some space
\begin{tabular}{@{}c@{}}
\subfloat{\includegraphics[width=0.3\linewidth]{example-image-b.png}}\\ (b)
\end{tabular}
\\ [0.1cm]
\subfloat{\includegraphics[width=0.3\linewidth]{example-image-c.png}}\\ (c)
\end{tabular}
\caption{Caption.}
\end{figure}
\end{document}
```


5.3 Placing image anywhere You want



```
\usepackage{graphicx}
\usepackage{tikz}
\begin{document}
\begin{tikzpicture}[overlay, remember picture]
\node[anchor=north west,xshift=4cm,yshift=-11cm]
at (current page.north west)
{\includegraphics[width=5.5cm]{example-image-a.png}};
\end{tikzpicture}
\end{document}
```

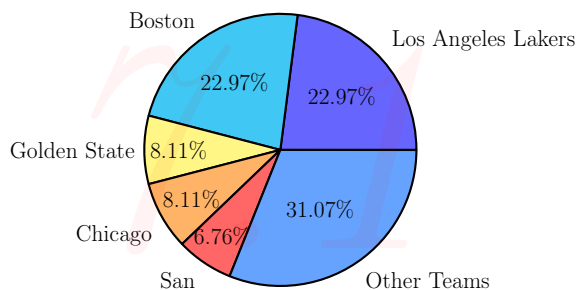
Chapter 6

Numbering

Chapter 7

Plots, tikz, pie charts ...

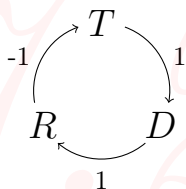
7.1 Simple pie chart



```
\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}
```

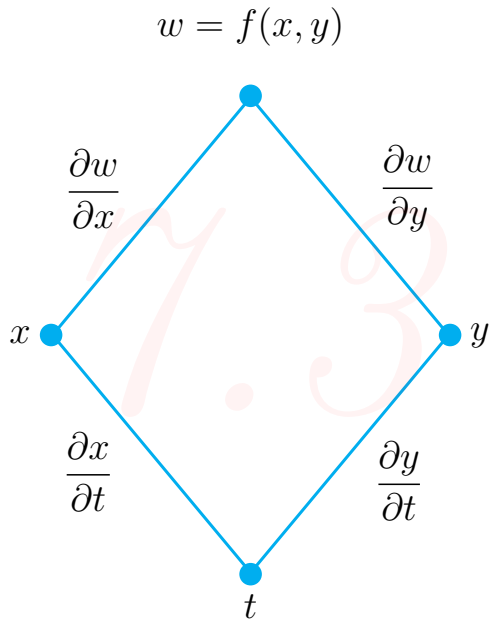
7.2 Circled arrows with text



```
\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) {$R$};
\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}
\usepackage[left=1.5cm,right=1.5cm,top=1.5cm,bottom=2cm,bindingoffset=0
  \rightarrow 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) {\$\dfrac{\partial w}{\partial y}\$};
\node [above=0.5cm,left=0.1cm] (c) at (d.135) {\$\dfrac{\partial w}{\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\$};
\node [below=0.9cm,right=-0.3cm] (g) at (d.-30) {\$\dfrac{\partial y}{\partial t}\$};
\node [below=0.5cm,left=0.1cm] (h) at (d.220) {\$\dfrac{\partial x}{\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}

```

Chapter 8

Highlighting

8.1 Words highlighting 1

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

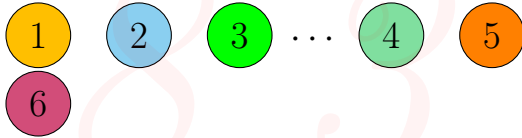
```
\documentclass{article}
\usepackage{tcolorbox}
\newtcbbox{\mybox}[1][red]{on line,
arc=0pt,outer arc=0pt,colback=#1!10!white,colframe=#1!50!black,
boxsep=0pt,left=1pt,right=1pt,top=2pt,bottom=2pt,
boxrule=0pt,bottomrule=1pt,toprule=1pt}
\newtcbbox{\xmybox}[1][red]{on line,
arc=7pt,colback=#1!10!white,colframe=#1!50!black,
before upper={\rule[-3pt]{0pt}{10pt}},boxrule=1pt,
boxsep=0pt,left=6pt,right=6pt,top=2pt,bottom=2pt}
\begin{document}
The \mybox{green}{quick} brown \mybox{fox}...\par
The \xmybox{green}{quick} brown \xmybox{fox} ...
\end{document}
```

8.2 Unusual words highlighting

Here You can see
TYP more examples and learn
 something new.

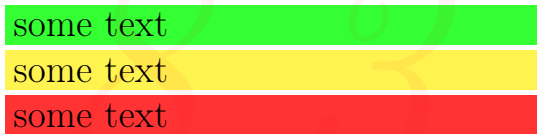
```
\usepackage[many]{tcolorbox}
\newtcbbox{\mylib}{enhanced,nobeforeafter, tcbox raise base, boxrule=0.4pt,
↪ top=0mm, bottom=0mm,
right=0mm, left=4mm, arc=1pt, boxsep=2pt, before upper={\vphantom{dlg
↪ }}, colframe=green!50!black, coltext=green!25!black, colback=green
↪ !10!white, overlay={\begin{tcbclipinterior} \fill[green!75!blue!50!
↪ white] (frame.south west) rectangle node[text=white,font=\sffamily\
↪ bfseries\tiny,rotate=90]{TYP} ([xshift=4mm]frame.north west);\
↪ end{tcbclipinterior}}}}
\begin{document}
\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{\mybox}
\newcommand*\circled[2][draw=blue]{\savebox\mybox{\vbox{\vphantom{
  ↳ WL1/}#1}}\setlength{\mylength}{\dimexpr\CircleFactor\dimexpr\ht\
  ↳ mybox+\dp\mybox\relax\relax}\tikzset{mystyle/.style={circle,#1,
  ↳ minimum height={\mylength}}}\tikz[baseline=(char.base)]
\node[mystyle] (char) {#2};}
\makeatother
\definecolor{amber}{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}
```