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0.1 Introduction

LIB `lazylatex` is a \LaTeX package inspired by sphinx-rtd-theme. Build with \LaTeX packages such as `tcolorbox`, `minted`, `tikz`, etc,. Not all text elements are a simulation of rtd-theme, it also adopts text element style from different sources. Please consult `example.tex` source file of this *pdf* for usage and examples of some of the commands.

0.2 Packages Used

- **LIB** `geometry` - for page dimension setup
- **LIB** `xcolor` - for better colour definitions
- **LIB** `tcolorbox` - for inline markup and admonitions
- **LIB** `minted` - for code blocks
- **LIB** `tikz` - additional tex features(rotation and placing) also for graphics
- **LIB** `wrapfig` - for floating area(size and place) when creating sidebar

- `\usepackage{tabularx}`, `\usepackage{array}`, `\usepackage{colortbl}` - for styling tables
- `\usepackage{hyperref}` - for link styling and viewer setup.
- `\usepackage{setspace}` - for line spacing and indented blocks

0.3 Structural Elements

Uses native LaTeX structural elements (Section, Subsection, etc.). Paragraphs are indented even the first paragraph in each section, this can be easily turned off using `\setlength{parindent}{0pt}` latex command

0.4 Paragraph Level Markup

0.4.1 Inline Markup

Documents contain text and may contain inline markup: `\textcolor{red}{inline literals}`, *emphasis*, **strong emphasis**, stand alone links (<https://www.wikibooks.org>), external hyperlinks ([wikibooks home](#)), internal reference (Eq:1, Code:1 with `\codecaption`) and `\button{some action}`. For software library or a package use `\usepackage{PackageName}` and a file names are indicated with `\input{filename.ext}`

0.4.2 Math

As usual,

$$e^{i\pi} + 1 = 0 \tag{1}$$

0.4.3 Line Blocks

Line blocks are styled in two different ways, *indent blocks* and *hanging blocks*. The former takes an optional number in units of *cm*, a measure of how much indentation is needed. Examples:

Indent Block

`\indentBlock[<optional left width>]{<content>}`

Where `<optional left width>` in *cm* is the width with which the block is shifted to right.

syntax

Example:

is is an indent block tas. Mauris ut leo. Cras viverra this is an indent block tas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit

Hanging Block

`\indentHang{\langle content \rangle}`

Where $\langle content \rangle$ is the text.

Example:

this is an indent block tas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, preti

! Note

Both `\indentBlock` and `\indentHang` commands must precede a blank line or new line \LaTeX character.

0.4.4 Code Blocks

There are three styles of code blocks are possible in `lib lazylatex`, 1) `literal` code blocks, `code` blocks with syntax highlighting and line number, 3) `lazycode` with properties of `code` and captions+label. Examples:

normal code block

```
1 package main
2
3 import "fmt"
4
5 func main() {
6     var x int = 7
7     fmt.Println(x)
8     fmt.Println(&x)
9 }
```

literal code block

If we run the above program

```
>> go run pointers.go
7
0xc00001c0a8
```

captioned code block

```

1 package main
2
3 import "fmt"
4
5 func main() {
6     var x int = 73
7     var xptr *int = &x
8     fmt.Println(x)
9     fmt.Println(&x)
10    fmt.Println(xptr)
11    fmt.Println(*xptr)
12 }

```

Code 1: Code Caption

0.4.5 Admonitions

There are four admonitions `note`, `tip`, `warning` and `error`. They all take one optional argument which is the title of the admonition. If not given they have a default value of **!Note**, **!Tip**, **!Warning** and **!Error** respectively. Examples:

! Note

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices.

! Tip

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem.

! Warning

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

! Error

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

Custom Title

Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices.

This Hint is cool

Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem.

0.4.6 Sidebar

The `sidebar` feature is rendered with `libwrapfig` latex package for placing it wherever in the latex document also for the width of the sidebar. Adding caption and label is also possible. Text will wrap around the sidebar, **Example:**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

My Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

0.5 Lists & Tables

Numbered and bulleted lists work pretty well in latex but it doesn't provide options for **Field lists** and **Hlists**. `\usepackage{lazylist}` provide `\llist` environment to create Field Lists and Hlists. Table is created with `\lazytable`. Both environments take 2 optional arguments, first `[<optional width>]` which is the width of the list or table in a page and second `{<alignment>}`, the alignment of the elements in a table or list.

Command

```
\begin{llist or lazytable}[<optional width>]{<alignment>}
  <content>
\end{llist or lazytable}
```

Where:

`[<optional width>]` is specified in the units of `\pagewidth`

`{<alignment>}` is specified using a combination of `X`, `Y`, `Z`, `L{<column width>}`, `R{<column width>}`, `C{<column width>}`.

`{<column width>}` option for `L,R,C` are specified with a real number indicating the width each column must take within the specified `[<optional width>]`

`X` and `L` - align the column content to left, `Y` and `R` aligns the content to right and `Z` and `C` aligns the content to center

0.5.1 Native L^AT_EX List

- Item A
- Item B
- Item C

0.5.2 Hlists

Example

```
\begin{llist}[\langle optional width \rangle]{\langle alignment \rangle}
\langle content \rangle
\end{llist}
```

Where $\langle content \rangle$ is a set of `\litem` separated by `&`. $[\langle optional width \rangle]$ is $[0.5\texttt{\textwidth}]$ and $\{\langle alignment \rangle\}$ is $\{\texttt{XXX}\}$
Refer Section 0.5 for values each option can take.

- item 00 • item 01 • item 02
- item 10 • item 11 • item 12
- item 20 • item 21 • item 22

0.5.3 Field List

Example

```
\begin{llist}[\langle optional width \rangle]{\langle alignment \rangle}
\langle content \rangle
\end{llist}
```

Where $\langle content \rangle$ is a set of text separated by `&`. $[\langle optional width \rangle]$ is default i.e `\textwidth` and $\{\langle alignment \rangle\}$ is $\{\texttt{L{0.35}X}\}$
Refer Section 0.5 for values each option can take.

Author:	Anoop Chandran
Address:	123 Example Street, Example, Example
Contact:	strivetobelazy@gmail.com
Authors:	Me; Myself; I
Organization:	humankind
Date:	December 26, 2018
Status:	This is a “work in progress”
Revision:	Revision: 100001
Version:	0.01
Copyright:	This document has been placed in the public domain. You may do with it as you wish.

0.5.4 Tables

Three examples are shown for Tables however one can combine the features of all the tables in different ways.

Example 1

```
\begin{lazytable}[\langle optional width \rangle]{\langle alignment \rangle}
  \langle content \rangle
\end{lazytable}
```

Where $\langle content \rangle$ is a set of text separated by &. $[\langle optional width \rangle]$ is default i.e `\textwidth` and $\{\langle alignment \rangle\}$ is $\{L\{1\} | R\{0.5\} | R\{0.5\} | C\{2\}\}$, argument sum, $1 + 0.5 + 0.5 + 2 = \text{num columns}$
Refer Section 0.5 for values each option can take.

label 00	label 01	label 02	label 03
item 10	item 11	item 12	item 13
item 20	item 21	item 22	item 23

variable
width

The following examples have captions, to do this one has to wrap `lazytable` inside a `table` environment. Caption and label would be the contents of this table but outside `lazytable`

Example 2

```
\begin{lazytable}[\langle optional width \rangle]{\langle alignment \rangle}
  \langle content \rangle
\end{lazytable}
```

$[\langle optional width \rangle]$ is default i.e `\textwidth` and $\{\langle alignment \rangle\}$ is $\{X|Y|Y|Y|Y\}$ Refer Section 0.5 for values each option can take.

Group	One	Two	Three	Four	Sum
Red	1000.00	2000.00	3000.00	4000.00	10000.00
Green	2000.00	3000.00	4000.00	5000.00	14000.00
Blue	3000.00	4000.00	5000.00	6000.00	18000.00
Sum	6000.00	9000.00	12000.00	15000.00	42000.00

fixed
width

Table 1: this is a table

To align a table with reduced width at the center of the page, wrap the `lazytable` inside a `center` environment.

Example 3

```
\begin{lazytable}[<optional width>]{<alignment>}
  <content>
\end{lazytable}
```

[*<optional width>*] is $0.6\text{\texttt{\textbackslash textwidth}}$ and {*<alignment>*} is {Z|Z|Z|Z}
Refer Section 0.5 for values each option can take.

Group	One	Two	Three
Red	1000.00	2000.00	10000.00
Green	2000.00	3000.00	14000.00
Blue	3000.00	4000.00	18000.00
Sum	6000.00	9000.00	42000.00
Blue	3000.00	4000.00	18000.00
Gray	3000.00	4000.00	18000.00

Table 2: this is a table2

Header row,(header rows optional)	Header 2	Header 3	Header 4
body row 1, column 1	column 2	column 3	column 4
body row 2	Cells may span columns		
body row 3			
body row 4			
body row 5	Cells may also be empty		

Table 3: this is a table2