

Lua_{La}T_EX General Template

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Lorem Ipsum

1.1 Lorem Ipsum 2

^{ipsum} Lorem dolor sit amet, *aeque labores expetendis* vim an, eu ius atqui sensibus. Mollis suscipit vivendum sed id. Eos ex fuisset accusam. Quo natum autem at, blandit dissentiet in usu, cum porro aequae probatus ea.

1.2 Lorem

Lorem ipsum dolor sit amet, aequae labores expetendis vim an, eu ius atqui sensibus. Mollis suscipit vivendum sed id. Eos ex fuisset accusam. Quo natum autem at, blandit dissentiet in usu, cum porro aequae probatus ea.

Ius tale phaedrum democritum id. Vel ut dico munere doctus, nec ei dicant referrentur. Te sanctus consequat maiestatis ius, autem facete at sed. Has te nobis malorum democritum, vocent alterum pri ne, sit dicit possim no. Noster intellegebat ius at, an diam saepe vis.

Ut eros admodum antiopam his. Iuvaret docendi platonem at usu, cu ornatus accusam conclusionemque ius, id nulla diceret fabellas vim. Ut his essent dignissim, id mei aperiri corpora. Qui ad modus senserit torquatos, no reque adipisci honestatis nec.

Ius cibo latine te, probatus deterruisset mei et, ea est possit semper scaevola. Putent putant ea per, ex ipsum inani graecis cum. Est te dui nobis assentior¹ duo id, at modus animal eum. Porro graece reprimique eos in, mea in vulputate constituto. Sit errem postea quaeque ei. Nusquam quaestio eloquentiam vix an, ad probo mandamus persecuti has. Cum oratio delicatissimi ei, veniam homero qualisque sed ea, ius voluptatum definitionem ad.

¹ atqui patrioque definiebas

1.3 仮名

仮名^{かな}とは、漢字をもとにして日本で作られた文字のこと。現在一般には平仮名と片仮名のことを指す。表音文字^{おひし}の一種であり、基本的に1字が1音節をあらわす音節文字に分類される。漢字に対して和字ともいう。ただし和字は和製漢字を意味することもある。

1.4 Section

1.4.1 Subsection

1.4.2 Subsection

Subsubsection

Paragraph This is a paragraph. Lorem ipsum dolor sit amet, aequae labores expetendis vim an, eu ius atqui sensibus. Mollis suscipit vivendum sed id. Eos ex fuisset accusam. Quo natum autem at, blandit dissentiet in usu, cum porro aequae probatus ea.

Subparagraph This is a subparagraph. Lorem ipsum dolor sit amet, aequae labores expetendis vim an, eu ius atqui sensibus. Mollis suscipit vivendum sed id. Eos ex fuisset accusam. Quo natum autem at, blandit dissentiet in usu, cum porro aequae probatus ea.

1.5 Code Block

```
1 import Control.Monad.State
2 fib n = flip evalState (0, 1) $ do
3   forM [0..(n - 1)] $ \_ -> do
4     (a, b) <- get
5     put (b, a + b)
6     (a, b) <- get
7   return a
```

Following code block has been highlighted.

```
1 suspend fun main(args: Array<String>) {
2   when (val result = SorapointaMain().main(args)) {
3     is CommandResult.Success -> {
4       exitProcess(0)
5     }
6     is CommandResult.Error -> {
7       println(result.userMessage)
8       exitProcess(1)
9     }
10  }
11 }
```

1.6 Figure

Figure 1.1 from Pexels[®].

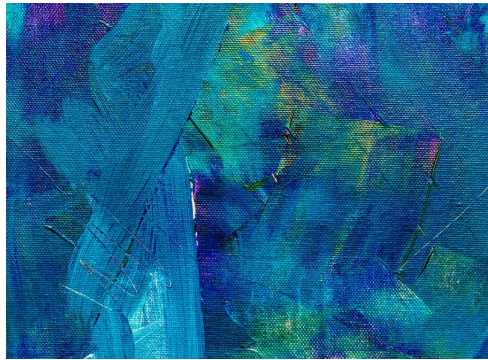


Figure 1.1: From Pexels <https://www.pexels.com/photo/1509534/>

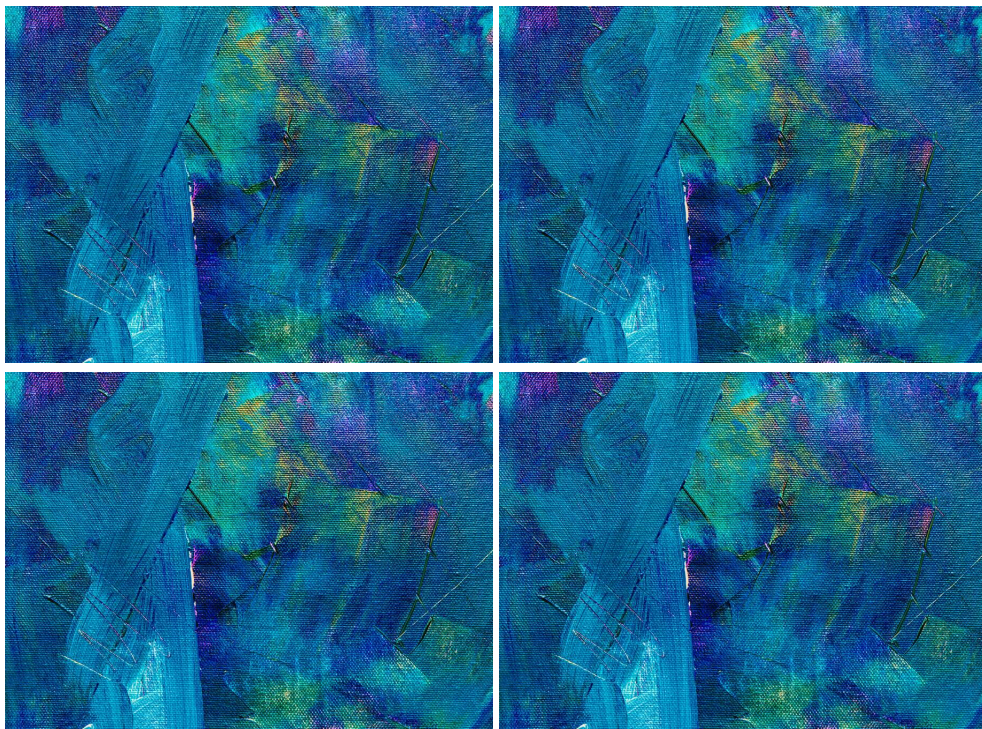


Figure 1.2: Multiple Figures Layout

1.7 Others

Link <https://www.example.com>

Link with description [CTAN](#)

Jump Link [Click here to jump to 仮名](#)

Emoji 🤖👉👍👏

Footnote Link¹ See below

Multi-line text in footnote² See below

1.8 Your boxes

An example theorem is shown in theorem 1.8.1, and there is example 1.8.1.

Theorem 1.8.1 Prime Number Theorem (PNT)

$$\pi(x) \sim \frac{x}{\log x}$$

Example 1.8.1 Generalisation of Bertrand's Postulate

Let $\varepsilon > 0$. Prove that there exist a prime between n and $(1 + \varepsilon)n$ for all large n , in particular there always exist a prime between n and $2n$ for $n > 1$.

Definition 1.8.1 Ordinary

n ordinary differential equation, often abbreviated as an ODE, is a differential equation that is in the form of:

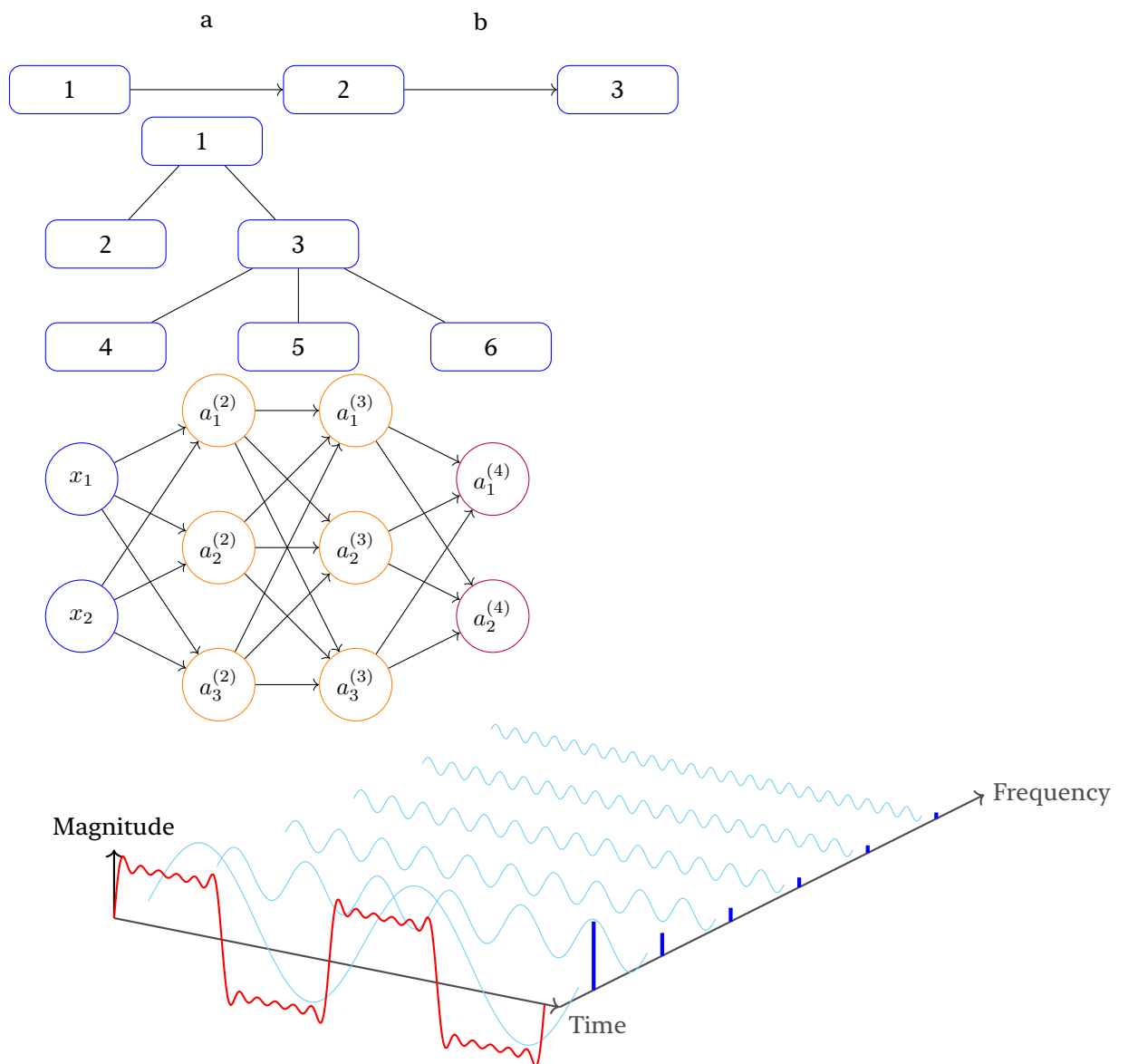
$$F(x, y, y', y'' \dots) = 0$$

¹Example

²Multi-line text also can be easily aligned.
Provided by footmisc package.

CHAPTER 2

TikZ Diagram



Heading on level 0 (chapter)

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3.1 Heading on level 1 (section)

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3.1.1 Heading on level 2 (subsection)

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Heading on level 3 (subsubsection)

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Heading on level 4 (paragraph) Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus.

Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

3.2 Lists

3.2.1 Example for list (itemize)

- First itemtext
- Second itemtext
- Last itemtext
- First itemtext
- Second itemtext

Example for list (4*itemize)

- First itemtext
 - First itemtext
 - * First itemtext
 - First itemtext
 - Second itemtext
 - * Last itemtext
 - First itemtext
- Second itemtext

3.2.2 Example for list (enumerate)

- (1) First itemtext
- (2) Second itemtext
- (3) Last itemtext
- (4) First itemtext
- (5) Second itemtext

Example for list (4*enumerate)

- (1) First itemtext
 - (a) First itemtext
 - i. First itemtext
 - A. First itemtext
 - B. Second itemtext
 - ii. Last itemtext
 - (b) First itemtext
- (2) Second itemtext

3.2.3 Example for list (description)

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

Example for list (4*description)

First itemtext

First itemtext

First itemtext

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext