

# CONVENTIONS

## general conventions

### LaTeX

LaTeX is used for all mathematical equations through my custom Math Notation

variables are defined in separate lines using a *, where* statement

whitespace in formulas follow programming-language-like conventions

Si units and other units are to be written using `\text{}`

the `:` operator must always be surrounded one space on either side, or written as the first character of an equation as `$\ :`

`\R`, `\N`, `\Z`, `\{` and `\}` must not be used, as they are not widely supported. `\mathbb R`, `\mathbb N`, `\mathbb Z`, `\lbrace` and `\rbrace` should be used instead, respectively.

`\` must be replaced by `\\` for them to work properly. see the following discussion:  
<https://github.com/mathjax/MathJax/issues/1301>

more information about supported features available at: <https://katex.org/docs/supported.html>

## headings

Capitalized headings are for Concepts

lowercase headings are for general titles

the following headings are commonly used:

- **definition, definitions**
- **notation**
- **representation**
- **types**
- **applications**
- **example, examples**
- **counterexample, counterexamples**
- **theorems**
- **properties**

- procedure
- see

## quotes, italics, bold, sources, URLs

blockquotes are used for Factual information and definitions

italics are used for tricks and personal definitions and to replace quotation marks. bold is used for emphasis. italics must not be used for emphasis and quotation marks are to be avoided

— ... statements are used for citing sources

all external URLs are denoted using <...> statements

## note system

wiki links are generally avoided in headings

a page can link to itself

*see* ... statements are for prerequisites

note names are all *-ing* verbal groups or singular nominal groups

each page has exactly one title case first-level heading, which must correspond to the file name

in file names, spaces are replaced by Dashes and apostrophes are removed

box titles are generated with <https://lingojam.com/BoldTextGenerator>

## note, theorem, proof, definition

all constructs below can be multiline

**note:** this is a note to clarify the previous statement

**theorem:** this is a theorem — this is an optional source

**theorem:** *theorem name*

this is a theorem — this is an optional source

**proof:** this is a proof of the above theorem — this is an optional source

**proof:** — this is a source

**definition:** *term* is a term that is defined here — this is an optional source

**AKA:** this is a list of synonyms for a concept, "also known as"

syntax used

h1

h2

h3

*italics*

**bold**

inline code

```
// code block
console.log(() => 'Fira Code Ligatures');
```

- unordered
- list

1. ordered
2. list

*L<sup>A</sup>T<sub>E</sub>X*

Wiki Link

<https://example.com/>

| | | | | image

```
graph LR
    mermaid --> support
```

---

blockquote

---

table

---

1

2

3

---

unused syntax

Block  $L^T E X$

emojis



- ☐ task
- ☒ list

---

horizontal rule

## PDF export conventions

see [Eng1112 Report 2](#) for an example application of the conventions outlined below

syntax used

page break

fully indented paragraph — lorem ipsum dolor sit amet, consectetur adipiscing elit. sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

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## unused syntax

**Theorem 1.** *This is a theorem.*

**Lemma 2.** *This is a lemma.*

**Definition 1.** This is a definition.

*Proof.* This is a proof. ■

**note:** the elements above are not used in my Conceptual Notes as they are not natively supported in Markdown. this "quote with bold text" format is used instead

## LaTeX & Wiki Link Support

by convention, the following scripts are to be appended to any page before it is exported