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 `$\ : $`

the $\to$ Operator is written as `\to` by default, and must be written as `\rightarrow` when it indicates a Math Notation Function definition

`\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

lowercease headings are for general titles

the following headings are commonly used:

- **definition**
- **notation**
- **representation**
- **types**
- **applications**
- **example**

- **counterexample**
- **theorems**
- **definitions**
- **properties**
- **procedure**
- **pros & cons**
- **see**

quotes, italics, bold, sources, URLs

blockquotes are used for <u>Fact</u>ual 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

horizontal rules are occasionally used to separate a whole file in different sections

each page has one title case first-level heading, which must correspond to the file name. occasional subsequent first-level headings must be preceded by a horizontal rule

in file names, spaces are replaced by <u>Dash</u>es and apostrophes and diacritics 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');
```
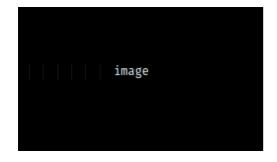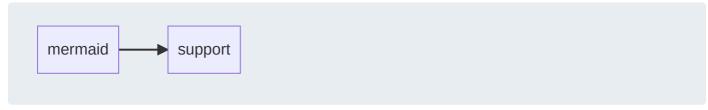
- unordered
- list

1. ordered
2. list

$\LaTeX$

#tag

Wiki Link

https://example.com/

> blockquote

table

1

2

3

unused syntax

Block $\LaTeX$

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.

paragraph with all but its first line indented — 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.

paragraph with only its first line indented — 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.

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 <u>Conceptual Notes</u> 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