C O N V E N T I O N S

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

international system of units 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 or last character of an equation as `$\, : \,$`

the → operator is written as `\to` by default, and must be written as `\rightarrow` when it indicates a math notation function definition

when using the reduce function in my math notation, the operator must be followed by a `\!`

`\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

when `$` do not parse properly, add a `.` when necessary. for example, write `_this is $\top$_` as `_this is $\top$._`

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

headings

capitalized headings are for concepts that can be linked to using nested > wiki links

lowercease headings are for general titles

the following headings are used in blockquotes:

- **note**
- **example**

- **procedure**
- **proof**
- [mnemonic](#)
- **constant**
- **equivalence**
- **aka**

the following headings are used inline:

- **see**
- **types**
- **theorem**
- **definition**
- **properties**
- **applications**
- **pros**
- **cons**
- **pros & cons**
- **representation**
- **examples**
- **procedures**

> **proof** *proof name* this is an example of a proof used in a blockquote

definition *definition name* this is an example of a definition used inline

quotes, italics, bold, sources, URLs

blockquotes are used for [fact](#)ual information and definitions

italics are used for [trick](#)s 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

note names are mostly *-ing* verbal groups or singular nominal groups, and sometimes adjectives when more appropriate

line breaks are used exclusively for how they look in the render and never to make the source code more readable (which is why almost no single line breaks are used)

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

file names are all lowercase and apostrophes and diacritics are removed

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

all internal links are denoted using `[[note]]` and `![[image.png]]`, and all external links are denoted using `<https://example.com/>`

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 links

https://example.com/

> blockquote

table	
1	
2	
3	

---

horizontal rule

unused syntax

Block $\LaTeX$

emojis 😄

- ☐ task
- ☑ ~~list~~

PDF export conventions

see matrix for an example application of report-style PDF export conventions

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

```
<script type="text/javascript" id="MathJax-script" async
src="https://cdn.jsdelivr.net/npm/mathjax@3.2/es5/tex-chtml.js">
</script><script>window.MathJax = {tex: {inlineMath: [['$', '$']]},
messageStyle: "none"};</script><script>document.body.innerHTML =
document.body.innerHTML.replace(/\[\[([a-zA-Z0-9\-]+\|)?([a-zA-Z0-
9\-]+)\]\]/g, (a, b, c) ⇒ `<u>${c.replace(/\-/g, ' ')}</u>`).replace(/#
[a-zA-Z0-9\-]+/g, (a) ⇒ `<u>${a}</u>`).replace(/!\[\[(.+)\]\]/g, (a, b)
⇒ `<img src="${b}" />`)</script><style> @page { margin: 3rem; } body {
```

```
background-color: #FFF; max-width: none; margin: 0; padding: 0; } h2,
h3, h4, h5, h6 { margin-top: 1em; } blockquote { box-sizing: border-box;
border-left: 1px solid #000; margin: 1em 10px; padding: 0 30px; } img {
border-radius: 4px; } </style>
```

report-style PDF export conventions

see eng1112 report 2 for an example application of report-style PDF export conventions

the following stylesheet is to be appended to any report-style document

```
<style> p { text-indent: 40px; } blockquote > p { text-indent: 0; } hr {
opacity: 0; page-break-after: always; } cite { display: inline-block;
text-indent: -40px; margin-top: 1rem; font-style: inherit; text-align:
justify; } </style>
```

syntax used

> horizontal rules act as page breaks
>
> paragraphs have their 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.
>
> *citations have all but their 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.*

presentation-style note conventions

see vim talk and carbon language talk for example applications of presentation-style note conventions

presentation-style notes are viewed using Obisdian's *Start presentation* feature

slides are seperated by using horizontal rules, `---`

headings and content can optionally be seperated using an HTML line break, `<br>`

personal comments and notes are to be written between `<?` and `?>` tags, and not between `<!--` and `-->` tags

level-3 headings are not used as they look too similar to level-2 headings on Obsidian. there can be multiple level-1 headings in one presentation