# Markdown Guide

This is a quick guide [1] for Markdown, a lightweight and easy-to-use syntax for writing.

# What is Markdown?

Markdown is a way to style text via a few simple marker characters. You could write the document in plain text and then read it with a beautiful typesetting.

There is no a standard Markdown syntax and many editor will add its own additional syntax. VNote supports only the widely-used basic syntax.

# How to Use Markdown?

If you are new to Markdown, it is better to learn the syntax elements step by step. Knowing headers and emphasis is enough to make you survive. You could learn another new syntax and practise it every one or two days.

# Syntax Guide

Here is an overview of Markdown syntax supported by VNote.

# Headers

```
# This is an <h1> tag
## This is an <h2> tag
###### This is an <h6> tag
```

#### Notes:

- At least one space is needed after the #;
- A header should occupy one entire line;

# **Emphasis**

```
*This text will be italic*

_This text will be italic_

**This text will be bold**

__This text will be bold__
```

#### Notes:

- \* is recommended in VNote;
- If the render failed, try to add an additional space before the first \* and after the last \*. The space is necessary if the surrounded text begins or ends with full width punctuation;
- VNote provides shortcuts Ctrl+I and Ctrl+B to insert italic and bold text;

### Lists

#### Unordered

```
* Item 1
This is a text under Item 1. Notice that there are two spaces at the end above.
* Item 2
        * Item 2a
        * Item 2b
* Item 3
```

To end a list, there should be one empty line above.

# Ordered

```
    Item 1
    Item 2
    Notice that the sequence number is irrelevant. Markdown will change the sequence a utomatically when renderring.
    Item 3

            Item 3a
            Item 3b
```

```
4. Item 4
```

# Tables

```
| col 1 | col 2 | col 3 |
| --- | --- |
| cell1 | cell2 | cell3 |
| cell4 | cell5 | cell6 |
```

# **Images and Links**

```
![Image Alt Text](/url/to/image.png "Optional Text")
![Image Alt Text](/url/to/image.png "Image specified with width and height" =800x6
00)
![Image Alt Text](/url/to/image.png =800x600)
![Image Alt Text](/url/to/image.png "Image specified with width" =800x)
![Image Alt Text](/url/to/image.png "Image specified with height" =x600)
[Link Text](/url/of/the/link)
```

Notes:

- It is not recommended to use image links in reference format. VNote will not preview those images.
- Specifying size of image is supported only in markdown-it.

# Blockquotes

```
As VNote suggests:

> VNote is the best Markdown note-taking application

> ever.

> THere is two spaces after `ever.` above to insert a

> new line.
```

#### Notes:

- Space is needed after the marker >;
- You could just add only one > at the first line;

# **Fenced Code Block**

```
```lang
This is a fenced code block.
```
This is another fenced code block.
~~~
```

#### Notes:

• lang is optional to specify the language of the code; if not specified, VNote won't highlight the code;

# Diagrams

You need to enable Flowchart.js or Mermaid or WaveDrom in the Markdown menu and restart current opened tabs.

VNote supports the following engines to draw diagrams. You should specify particular language of the fenced code block and write the definition of your diagram within it.

- Flowchart.js for flowchart with language flow or flowchart;
- <u>Mermaid</u> with language mermaid;

• <u>WaveDrom</u> for *digital timing diagram* with language wavedrom;

For example,

```
```flowchart
st=>start: Start:>http://www.google.com[blank]
e=>end:>http://www.google.com
op1=>operation: My Operation
sub1=>subroutine: My Subroutine
cond=>condition: Yes
or No?:>http://www.google.com
io=>inputoutput: catch something...
st->op1->cond
cond(yes)->io->e
cond(no)->sub1(right)->op1
```

#### UML

You need to enable PlantUML in the settings. Pay attention to the privacy issue if you use online PlantUML server. You may need to prepare Java runtime, PlantUML, and Graphviz if you choose local PlantUML.

VNote supports <u>PlantUML</u> to draw UML diagrams. You should use puml specified as the language of the fenced code block and write the definition of your diagram within it.

```
```puml
@startuml
Bob -> Alice : hello
@enduml
```

#### Graphviz

You need to enable Graphviz in the settings.

VNote supports <u>Graphviz</u> to draw diagrams. You should use dot specified as the language of the fenced code block and write the definition of your diagram within it.

# **Math Formulas**

You need to enable MathJax in the Markdown menu and restart VNote.

VNote supports math formulas via <u>MathJax</u>. The default math delimiters are \$\$...\$for **displayed mathematics**, and \$...\$ for **inline mathematics**.

- Inline mathematics should not cross multiple lines;
- Forms like 3\$abc\$, \$abc\$4, \$ abc\$, and \$abc \$ will not be treated as mathematics;
- Use \ to escape \$;
- There should be only space chars before opening \$\$ and after closing \$\$;

VNote also supports displayed mathematics via fenced code block with language mathjax specified.

```
```mathjax
$$
J(\theta) = \frac 1 2 \sum_{i=1}^m (h_\theta(x^{(i)})-y^{(i)})^2
$$
```
```

Equation number of displayed mathematics is supported:

```
$$vnote x markdown = awesome$$ (1.2.1)
```

# **Inline Code**

Here is a `inline code`.

To insert one `, you need to use two ` to enclose it, such as `` ``. To insert two `, you need to use three `.

# Strikethrough

Here is a ~~text~~ with strikethrough.

#### Notes:

• VNote provides shortcuts Ctrl+D to insert text with strikethrough;

# Task Lists

```
[x] this is a complete item.[] this is an incomplete item.
```

# Footnote

This is a footnote [^1].

[^1]: Here is the detail of the footnote.

# Superscript and Subscript

You need to enable Superscript or Subscript in the Markdown menu and use Markdownit renderer.

This is the 1^st^ superscript.

This is the H~2~0 subscript.

### Alert

With Markdown-it renderer, you can add some alert text.

```
::: alert-info
This is an info text.
:::
::: alert-danger
This is a danger text.
:::
```

Available variants:

```
alert-primary
alert-secondary
alert-success
alert-info
alert-warning
alert-danger
alert-light
alert-dark
```

# New Line and Paragraph

If you want to enter a new line, you should add two spaces after current line and then continue your input. VNote provides Shift+Enter to help.

If you want to enter a new paragraph, you should add an empty line and then continue entering the new paragraph.

Generally, you need to add an empty line after a block element (such as code block, lists, blockquote) to explicitly end it.

<sup>1.</sup> This guide references <u>Mastering Markdown</u>. <u>↩</u>□