

# Markup Language Idea

this Markup Language Idea is meant to address the main issue with Markdown in my opinion: inconsistency.

in this Programming Language,

- most constructs have a clear semantic meaning
  - most constructs have block-level and inline equivalents
  - every control character can be escaped with a `\`, with no ambiguous exceptions
  - constructs can be nested, and in a way that is actually consistent
- 

## Constructs

### semantic constructs

`#` represents a section of a file (not a heading)

`|` represents content that was sourced somewhere else

`-` represents a set of items

`>` and `<>` represent external files

`*` represents an important or emphasized item

`_` replaces quotation marks when mentioning something

``` represents computer code

`###` represents a file-wide separation (not a horizontal rule)

### not-so-semantic constructs

`/` is used for comments

`$` is used for LaTeX mathematical equations

`\` is used for escaping control characters

# block-level examples

first paragraph

second line

second paragraph

third paragraph

second line

third line

# headings

# name of section

content of section

continuation of content

# tables

/ TODO: find better syntax for tables

| header 1 | header<br>number 2 |
|----------|--------------------|
|----------|--------------------|

|          |          |
|----------|----------|
| data 1   | data 2   |
| data 1.1 | data 2.1 |
| data 3   | data 4   |

# quotes

| quote

second line

third line

| second quote

| third quote

# lists

- first item

- second item

- third item

second line

# includes

> filename.incl

# other

\* bold

```
text block
_ italicized
  block
` language
code block
$ \text{block}
  \LaTeX

/ block comment
  second line
  third line
```

## inline examples

```
|quote|

###

-list-

*bold*

_italics_

`code`

/inline comment/

$\LaTeX$

<filename.link>
```

## nesting examples

### source code

```
| quote
| nested quote
# heading in quote
- list item 1
- list item 2

- first, a quote:
```

```

| quote in a list
- then, some code:
` rust
  if true {
    println!("true");
  }

if you're interested, click here! <https://example.com/>

with my conceptual\ notes <conceptual-note-taking>

this person said that |it wasn't fair|

he wrote the following:
| This is \*\*very\*\* important.
  so important that I escaped the asterisks

so that's how it happened /comment: rephrase this/

supported languages include -HTML-Markdown-LaTeX-.

| * theorem
  it is a theorem that $x = y$

| * note
  this theorem only works for certain values of $x$
  therefore, some values of $y$ are not possible

this is _hello world_ in Python:
` python
  # hello_world.py
  print("hello world")
you can run it with `python hello_world.py`

```

## representation

quote

| nested quote

### heading inside quote

- list item 1
- list item 2

- first, a quote:

| quote in a list

- then, some code:

```
if true {  
    println!("true");  
}
```

if you're interested, click [here!](#)

with my [conceptual notes](#)

this person said that *"it wasn't fair"*

he wrote the following:

| This is **\*\*very\*\*** important.

| so important that I escaped the asterisks

so that's how it happened

supported languages include HTML • Markdown • LaTeX.

| **theorem**

| it is a theorem that  $x = y$

| **note**

| this theorem only works for certain values of  $x$  therefore, some values of  $y$  are not possible

this is *hello world* in Python:

```
# hello_world.py  
print("hello world")
```

you can run it with `python hello_world.py`