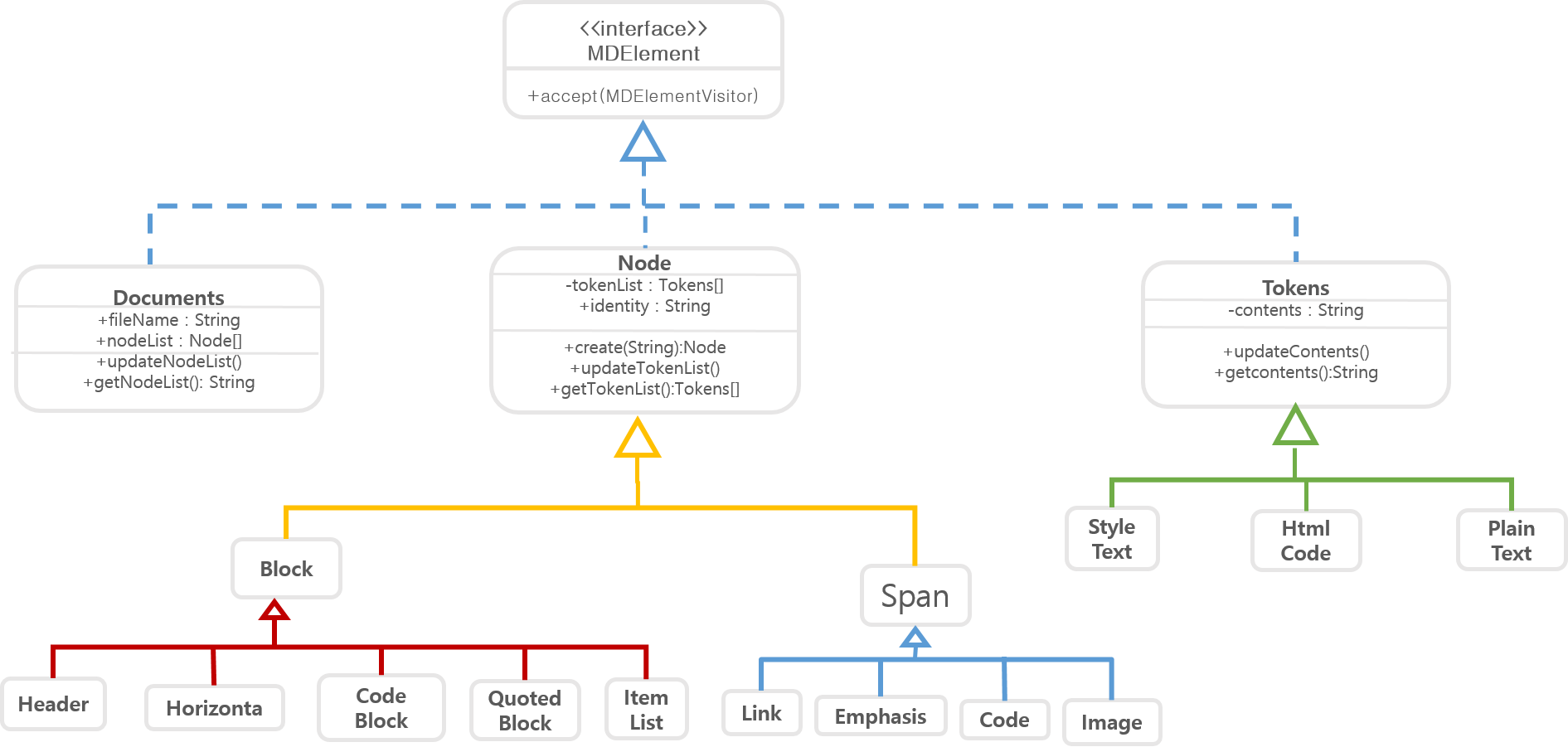
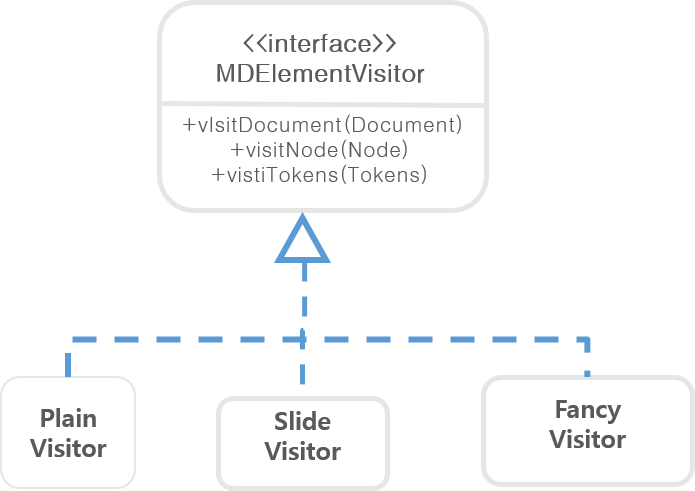
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| A 팀  2016-11-11 |

IR Class Diagram



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**Document Class**

* attributes
* - NodeList : Node[]

Nodelist makes up a document.

* member function
* +updateNodeList()

This function updates NodeList

* +getNodeList : Node[]

NodeList that is private data can be got by other class using this function.

**Node Class**

* attributes
* -tokenList : Tokens[]

TokenList makes up a Node

* +identity : String

: is the String that can make a node identify.

ex) Header class has “===” or “---” String as the ‘identity’ value

ex) CodeBlock class has “ ”(4times space) or “\t”(a tap) String as the ‘identity’ value

: We will use the attribute to check some string is what kind of node. If the String contain any value of ‘identity’ of some Node, then we will check that it meets the other condition of the Node.

* member function
* +updateTokenList()
* +getTokenList()

**Tokens Class**

* attributes
* -contents : String

String variance that stores the text of Tokens’s contents

* member function
* +updateContents(String newString)

This function updates contents to newString

**We classify Classes that inherit Node Class into Block Class and Span Class**

1. Child Classes of Block Class

: Header Class, CodeBlock Class, QuotedBlock Class, ItemList Class, Horizonta Class

2. Child Classes of Span Class

: Link Class, Emphasis Class, Code Class, Image Class

Design issues

**If there is no matched file to convert**

-Print error (file read error)

**If there is wrong option(can’t match contents, just form)**

-Print available contents of the option

**If there is wrong option(can’t match form, just contents)**

-Print several normal forms of the option

**If there are serious grammar error in original text**

-Ignore(believed in robustness)

-Give warning that there are problem in original text

**If the file size is so massive**

-Check file size before working

**If user didn’t specify output file name**

-Use default filename

**If there are multimarkdown**

-So far, do not support multimarkdown.(mmd)

Clarify grammar ambiguous

**When --- or === appear in series, it is ambiguous**

Markdown supports two styles of headers, “===” and “---”. When two headers are appeared consecutively, it is ambiguous.

**Image is only available with just its info. (Not available to change size, position)**

Image syntax looks like this: ![Alt text](/path/to/img.jpg ”Optional title”).  When an image is inserted, only Alt text and “Optional title” can be added as information. It is inconvenient when multiple images are uploaded. Because the multiple images cannot be arranged the positions by markdown. With this informations, the images cannot be sorted and specified the desired size.  If the images are sorted, it is possible to use ‘img’ tag of HTML.

**If there are both asterisks(\*) and double asterisks(\*\*) consecutively, it is ambiguous.**

Markdown cannot apply bold and italic at the same time. So if they are appeared consecutively, consider asterisks(\*) first.

If there is a line-break between emphasis(asterisks(\*) or double asterisks(\*\*)), consider line-break as space.

**When receive command line inputs, it is ambiguous to consider node(or token) as several lines or each line.**

Markdown converter should assume that the document class is consisted of serials of string. So we need guide line to divide between nodes(or tokens). It searches based on grammar from when the node or token grammar comes until the grammar that close it, and then saves it in class. After that it decides the contents recursively.

( 한글 설명☺

node 부분에서 여러줄을 node로 볼지 한줄 한줄을 node로 볼지 애매하다.

Document자체는 string탐색 관점으로 확인한다. 문법 중심으로 node 또는 token문법이 등장하면 해당 문법을 닫는 문법까지 검색해서 그걸 해당 class에 저장하고 그 안의 내용을 recursive하게 판단하는 방법)