UML & Markdown

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Links & Sources

- UML Diagrams: Wikipedia
- UML Diagrams: uml-diagrams.org
- UML Basic Notations: tutorialspoint.com
- UML Quick Reference: nomagic.com
- UML Notation Overview (German): oose.de
- Markdown Syntax: commonmark.org
- plantUML: plantuml.com
- plantUML Reference Guide: deepu.js.org

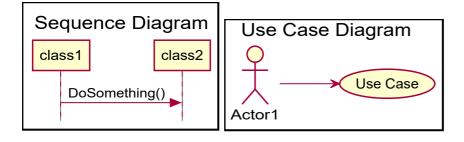
TODO

Notes:

```
' Helps sorting the classes:
Together{
    class A
    class B
}
```

plantUML Introduction

Available Diagrams



TODO: ... to be continued...

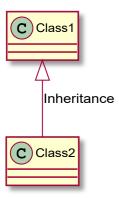
Use plantUML within a Markdown document

Within a markdown document a plantUML section is marked with the tags @startuml and @enduml.

Example:

```
@startuml
Class1 <|-- Class2 : Inheritance
@enduml
```

Result:



Formatting

• See also https://plantuml.com/de/creole

Formatting + General purpose syntax



```
@startuml

' Choose the "strictuml" style to more comply with the UML specification
    skinparam style strictuml

title Formatting + General purpose syntax

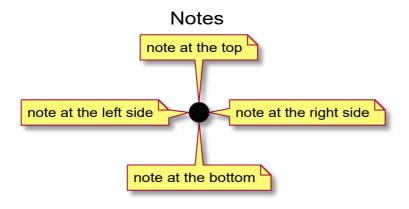
' This is a (one line) comment. This line will be ignored by plantUML.

/' This is ...
    ... a multiline comment.

'/

note left
    This is **bold**
    This is //italic//
    This is ""monospaced""
    This is --stroked--
    This is __underlined__
    end note

@enduml
```



```
@startuml

title Notes

note left
    note at the left side
end note

note right
    note at the right side
end note

note bottom
    note at the bottom
end note

note top
    note at the top
end note

@enduml
```

UML Diagrams (UML 2.5)

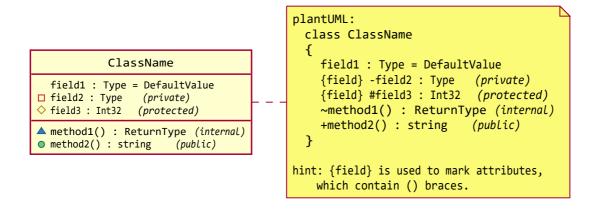
- The standard plantUML style does not perfectly comply with the UML standard. To be more compliant use skinparam style strictuml.
- To get non-colored diagram the setting skinparam monochrome true can be used.

Class Diagram

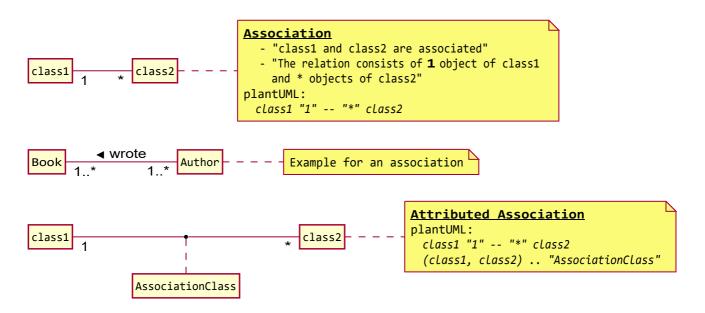
See also:

- Class Diagrams Overview: uml-diagrams.org
- Class Diagram: plantuml.com

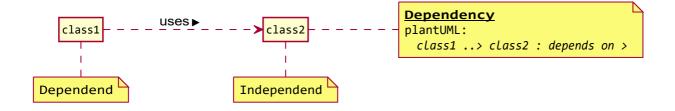
Class Notation



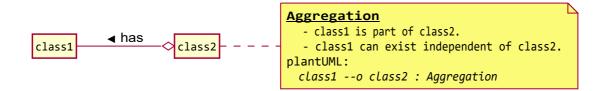
Association



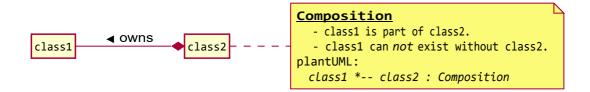
Dependency



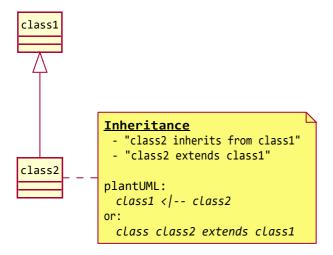
Aggregation



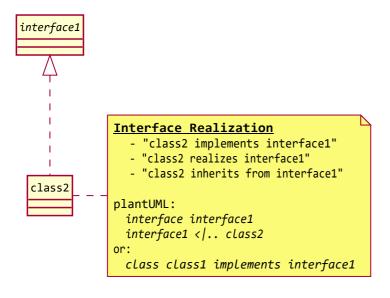
Composition



Inheritance

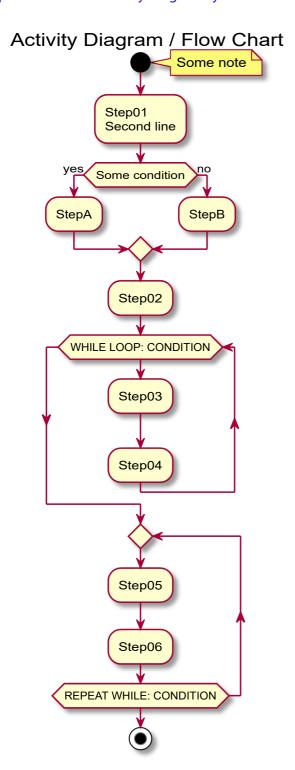


Interface Realization (Interface Inheritance)



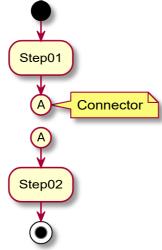
Activity Diagram (Flow Chart)

plantUML: NEW Activity Diagram Syntax

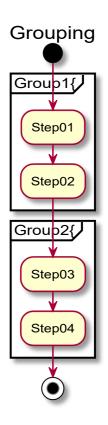


Connector & Detach

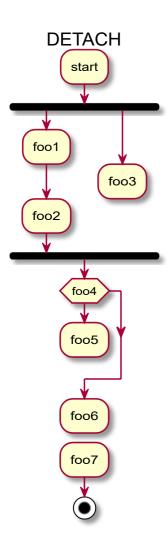
Activity Diagram / Flow Chart (2)



Grouping (partitions)



Detach



MindMap Diagram

Basic MindMap syntax

@startmindmap

• Root node '* A second root node is not allowed ** Node *** Subsubnode **_ Node without box

left side

** left side node ** second @endmindmap

@startmindmap

• Root Node ++ Alternative notation with ++ -- '--' Chooses the left side ---_ Subnode --- Subnode --- Strike through @endmindmap

Headers etc.

@startmindmap header My Header title My Title

• one ** two ** three

legend right My Legend end legend

caption My Caption center footer My Footer @endmindmap

Markdown compliant

@startmindmap

- Markdown syntax
 - indented by **TAB**
 - o intention by space\n is currently not possible
 - one
 - two
 - o three @endmindmap

Symbols

@startmindmap

- Symbols
 - <&flag> <&flag >
 - <&globe> <&globe >
 - <&graph> <&graph >
 - < <&pulse > <&pulse >
 - <&people> <&people >
 - < &star> <&star > @endmindmap