

UML & Markdown

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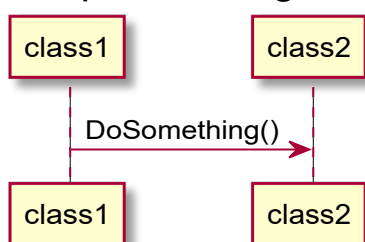
Links & Sources

- [OOSE UML Notationsübersicht](#)
- [CommonMark: Markdown Syntax](#)
- [plantUML Website](#)

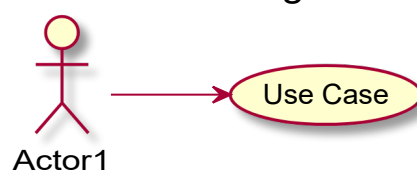
plantUML Introduction

Available Diagrams

Sequence Diagram



Use Case Diagram



TODO: ... to be continued...

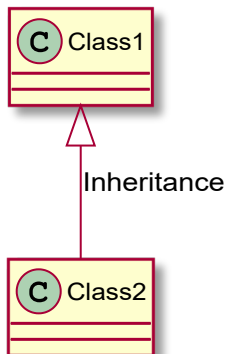
Usage

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

This is **bold**
 This is *italic*
 This is monospaced
 This is ~~stroked~~
 This is underlined

```
@startuml

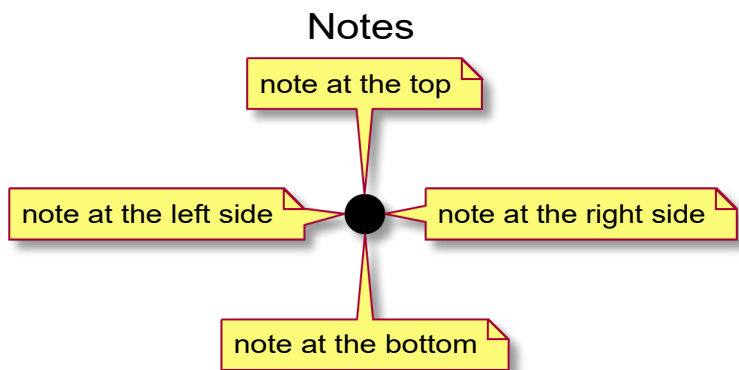
title Formatting + General purpose syntax

' 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

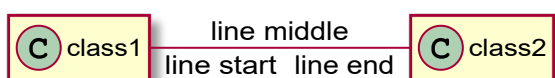
note top
    note at the top
end note

@enduml
```

Class Diagrams (former name "*Entity-Relationship-Diagram*")

- [Class Diagram Syntax @plantuml.com](http://plantuml.com)
- [Class Diagram \(Wikipedia\)](https://en.wikipedia.org/wiki/Class_Diagram)

Class Diagram: General Syntax



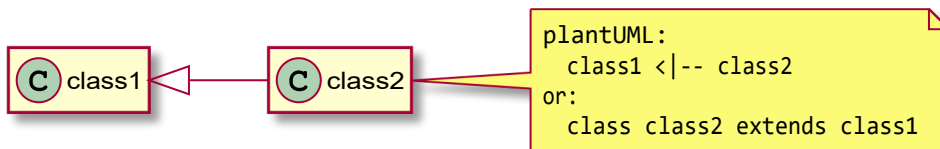
' optional switch to set the diagram orientation:
left to right direction

```
' optional:
hide empty members

' "as" sets an alias name, here "c2" for "class2"
class "class2" as c2

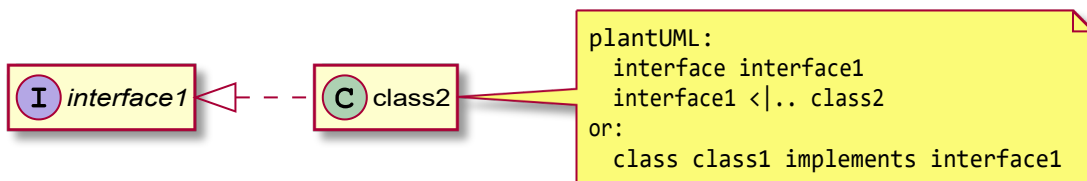
class1 "line start" -- "line end" c2 : line middle
```

Inheritance



- "class 2 inherits from class1"
- or: "class2 extends class 1"

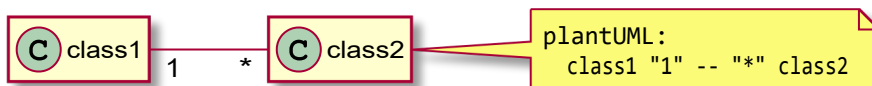
Realization (Interface inheritance)



- "class2 implements interface1"
- or: "class2 realizes interface1"
- or: "class2 inherits from interface1"

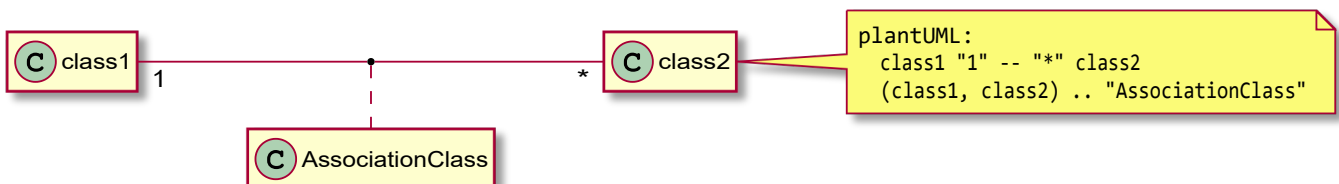
Association

Association

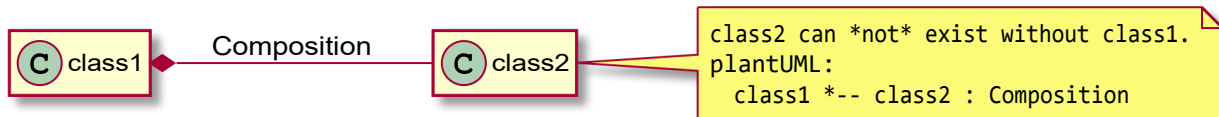


- "class1 and class 2 are associated"

Association with *association class*



Composition



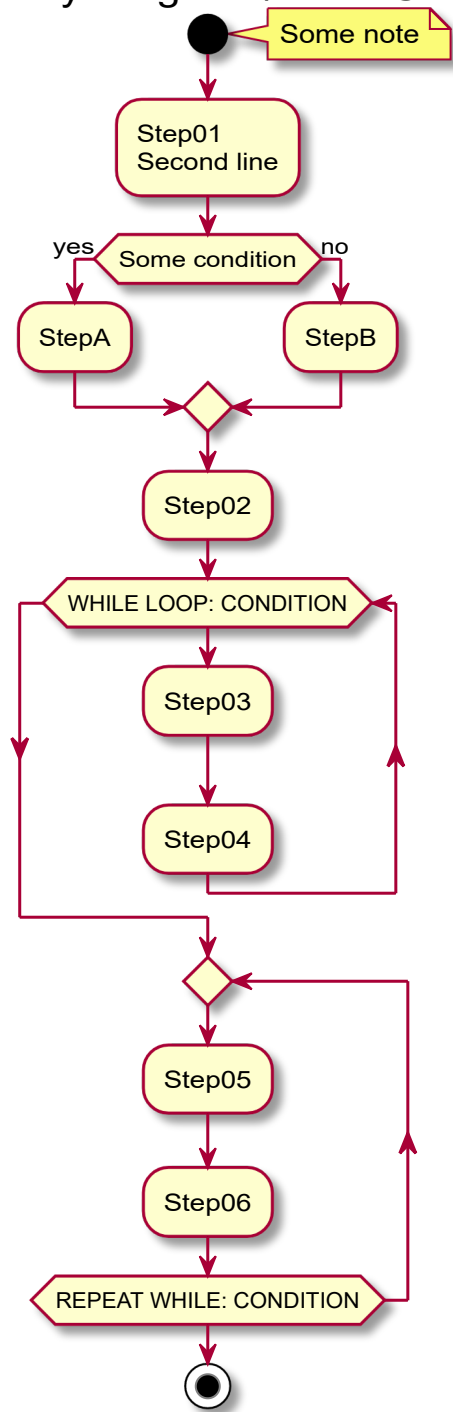
Aggregation



Activity Diagram (Flow Chart)

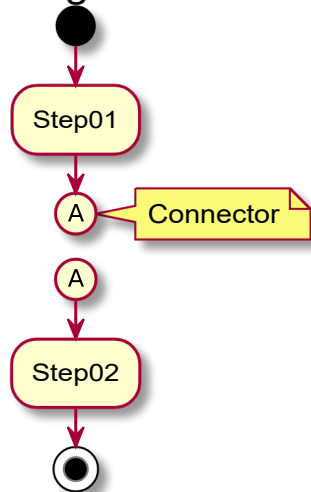
[plantUML: NEW Activity Diagram Syntax](#)

Activity Diagram / Flow Chart



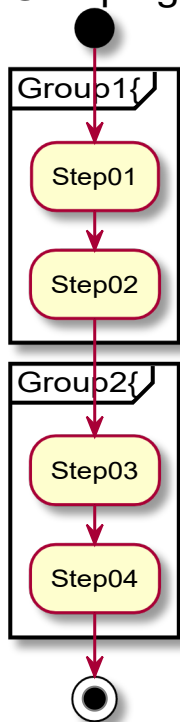
Connector & Detach

Activity Diagram / Flow Chart (2)

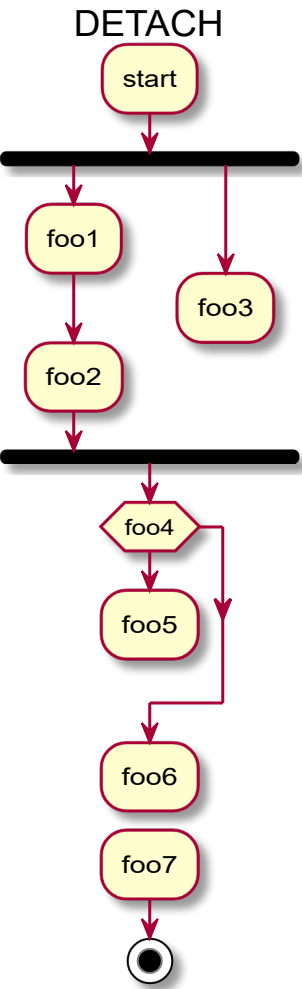


Grouping (partitions)

Grouping



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**
 - intention by space\n is currently not possible
 - one
 - two
 - three @endmindmap

Symbols

@startmindmap

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

@endmindmap