



Plant UML

PlantUML 은 다이어그램을 빠르게 작성하기 위한 오픈 소스 프로젝트입니다.

Deployment 다이어그램

Declaring element

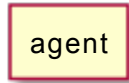
```
@startuml
actor actor
actor/ "actor/"
agent agent
artifact artifact
boundary boundary
card card
circle circle
cloud cloud
collections collections
component component
control control
database database
entity entity
file file
folder folder
frame frame
hexagon hexagon
interface interface
label label
node node
package package
person person
queue queue
rectangle rectangle
stack stack
storage storage
usecase usecase
usecase/ "usecase/"
@enduml
```



actor



actor/



agent



artifact



boundary



card



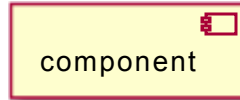
circle



cloud



collections



component



control



database



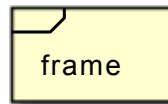
entity



file



folder



frame

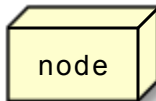


hexagon

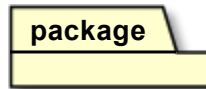


interface

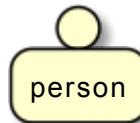
label



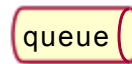
node



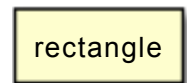
package



person



queue



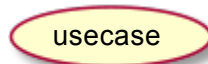
rectangle



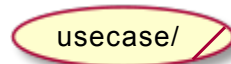
stack



storage



usecase



usecase/

You can optionally put text using bracket `[]` for a long description.

```
@startuml
folder folder [
  This is a <b>folder
  ----
  You can use separator
  ====
  of different kind
  ....
  and style
]

node node [
  This is a <b>node
  ----
  You can use separator
  ====
  of different kind
  ....
  and style
]

database database [
  This is a <b>database
  ----
  You can use separator
  ====
  of different kind
  ....
  and style
]

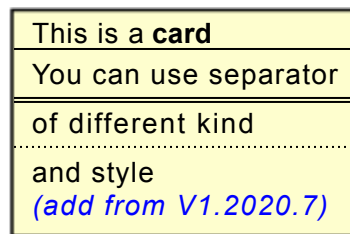
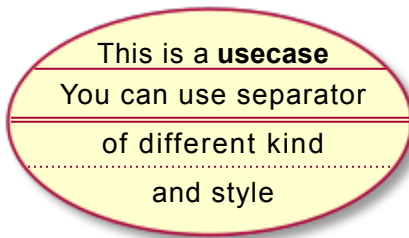
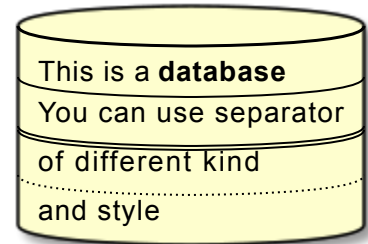
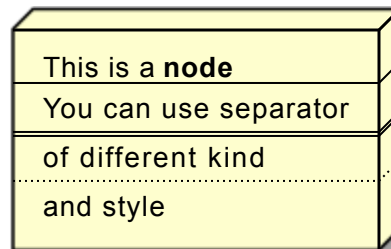
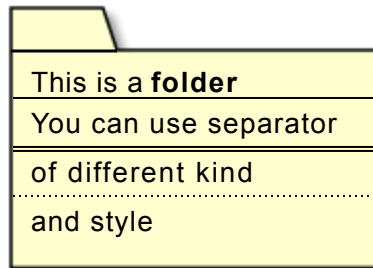
usecase usecase [
  This is a <b>usecase
  ----
  You can use separator
  ====
  of different kind
  ....
  and style
]

card card [
  This is a <b>card
  ----
  You can use separator
  =====
```

```

of different kind
....
and style
<i><color:blue>(add from V1.2020.7)</color></i>
]
@enduml

```



We can declare element using some short forms.

Long form Keyword	Short form Keyword	Long form example	Short form example	Ref.
actor	:a:	actor actor1	:actor2:	Actors
component	[c]	component component1	[component2]	Components
interface	()i	interface interface1	() "interface2"	Interfaces
usecase	(u)	usecase usecase1	(usecase2)	Usecases

Actor

```
@startuml
```

```
actor actor1
:actor2:
```

```
@enduml
```



actor1



actor2

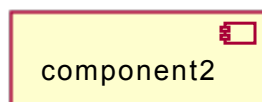
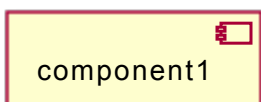
NB: There is an old syntax for actor with guillemet which is now deprecated and will be removed some days. Please do not use in your diagram.

Component

```
@startuml
```

```
component component1
[component2]
```

```
@enduml
```



Interface

```
@startuml
```

```
interface interface1
() "interface2"
```

```
label "//interface example//"
@enduml
```



interface1



interface2

interface example

Usecase

```
@startuml  
  
usecase usecase1  
(usecase2)  
  
@enduml
```

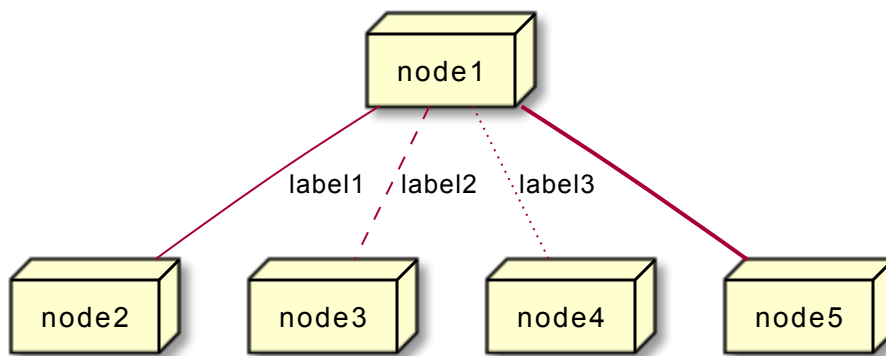
usecase1

usecase2

Linking or arrow

You can create simple links between elements with or without labels:

```
@startuml  
  
node node1  
node node2  
node node3  
node node4  
node node5  
node1 -- node2 : label1  
node1 .. node3 : label2  
node1 ~ node4 : label3  
node1 == node5  
  
@enduml
```



It is possible to use several types of links:

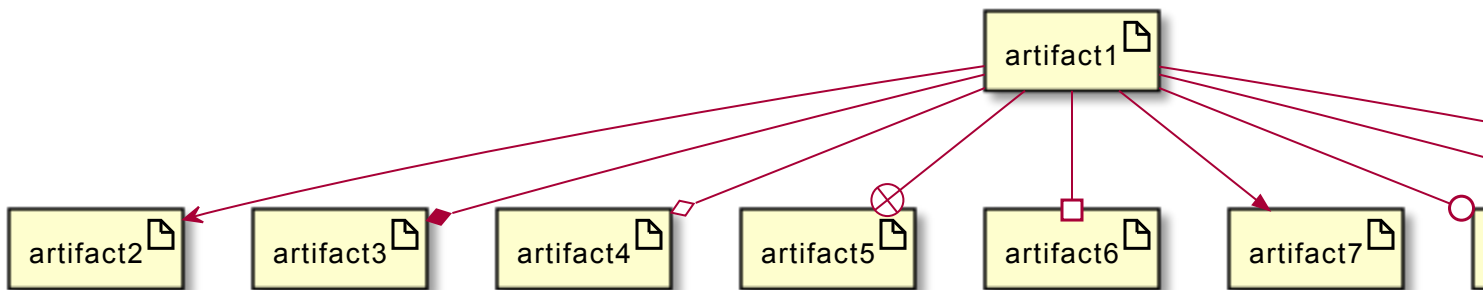
```
@startuml
```

```

artifact artifact1
artifact artifact2
artifact artifact3
artifact artifact4
artifact artifact5
artifact artifact6
artifact artifact7
artifact artifact8
artifact artifact9
artifact artifact10
artifact1 --> artifact2
artifact1 --* artifact3
artifact1 --o artifact4
artifact1 --+ artifact5
artifact1 --# artifact6
artifact1 -->> artifact7
artifact1 --0 artifact8
artifact1 --^ artifact9
artifact1 --(0 artifact10

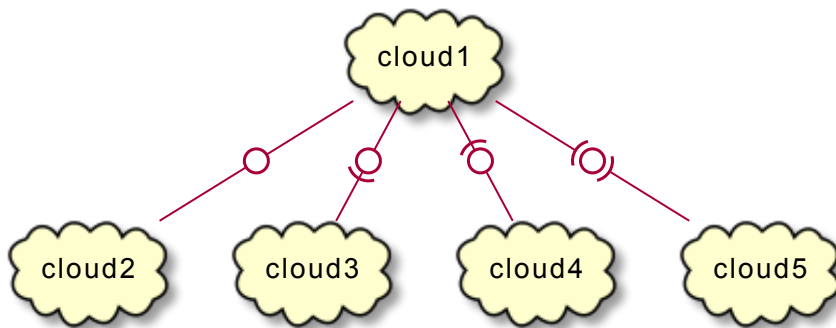
```

```
@enduml
```



You can also have the following types:

```
@startuml
cloud cloud1
cloud cloud2
cloud cloud3
cloud cloud4
cloud cloud5
cloud1 --0-- cloud2
cloud1 --0)-- cloud3
cloud1 --(0-- cloud4
cloud1 --(0)-- cloud5
@enduml
```



or another example:


```

@startuml
actor foo1
actor foo2
foo1 <-0-> foo2
foo1 <-(0)-> foo2

(ac1) -le(0)-> left1
ac1 -ri(0)-> right1
ac1 .up(0).> up1
ac1 ~up(0)~> up2
ac1 -do(0)-> down1
ac1 -do(0)-> down2

actor1 -0)- actor2

component comp1
component comp2
comp1 *-0)-+ comp2
[comp3] <---> [comp4]

boundary b1
control c1
b1 -(0)- c1

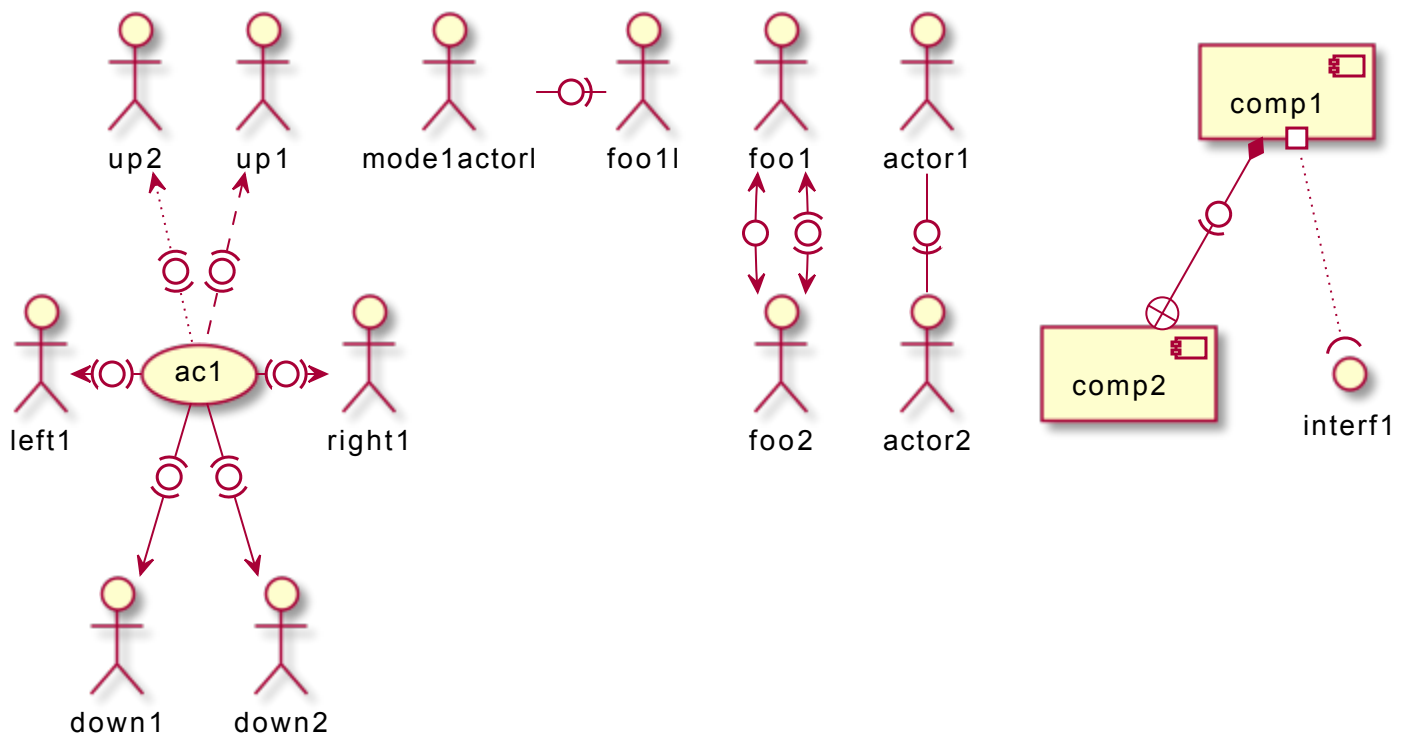
component comp1
interface interf1
comp1 #~~( interf1

:modelactor: -0)- fooa1
:modelactorl: -ri0)- foo1l

[component1] 0)-(0-(0 [componentC]
() component3 )-0-(0 "foo" [componentC]

[aze1] #---> [aze2]
@enduml

```



Bracketed arrow style

Similar as [Bracketed class relations \(linking or arrow\) style](#)

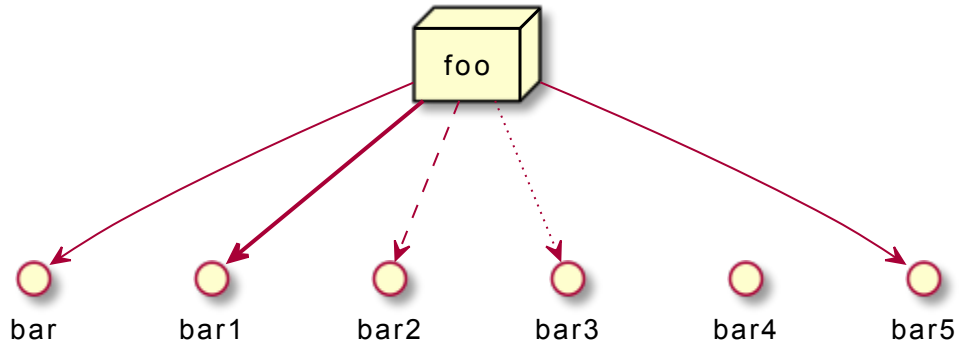
Line style

It's also possible to have explicitly bold, dashed, dotted, hidden or plain arrows:

- without label

```
@startuml
node foo
title Bracketed line style without label
foo --> bar
foo -[bold]-> bar1
foo -[dashed]-> bar2
foo -[dotted]-> bar3
foo -[hidden]-> bar4
foo -[plain]-> bar5
@enduml
```

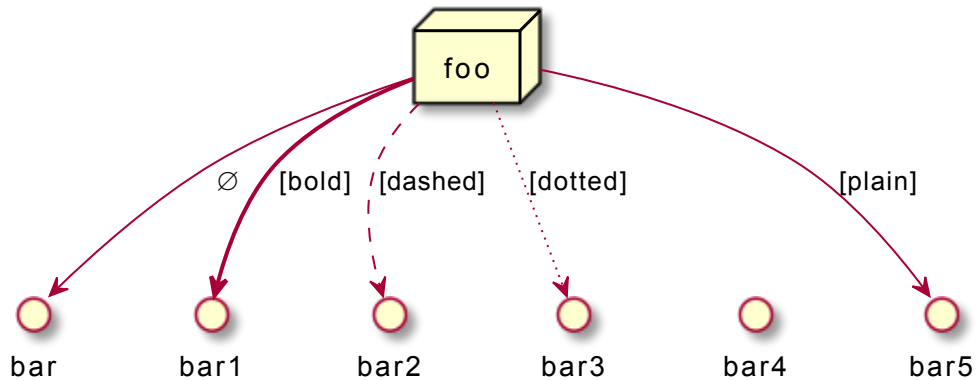
Bracketed line style without label



- with label

```
@startuml
title Bracketed line style with label
node foo
foo --> bar      : ∅
foo -[bold]-> bar1 : [bold]
foo -[dashed]-> bar2 : [dashed]
foo -[dotted]-> bar3 : [dotted]
foo -[hidden]-> bar4 : [hidden]
foo -[plain]-> bar5 : [plain]
@enduml
```

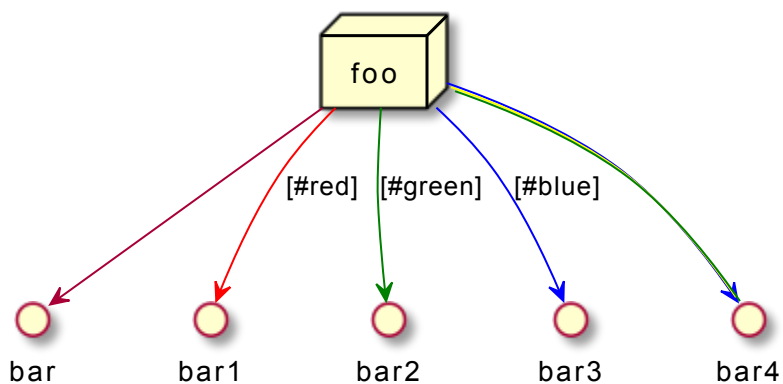
Bracketed line style with label



Line color

```
@startuml
title Bracketed line color
node foo
foo --> bar
foo -[#red]-> bar1      : [#red]
foo -[#green]-> bar2    : [#green]
foo -[#blue]-> bar3     : [#blue]
foo -[#blue;#yellow;#green]-> bar4
@enduml
```

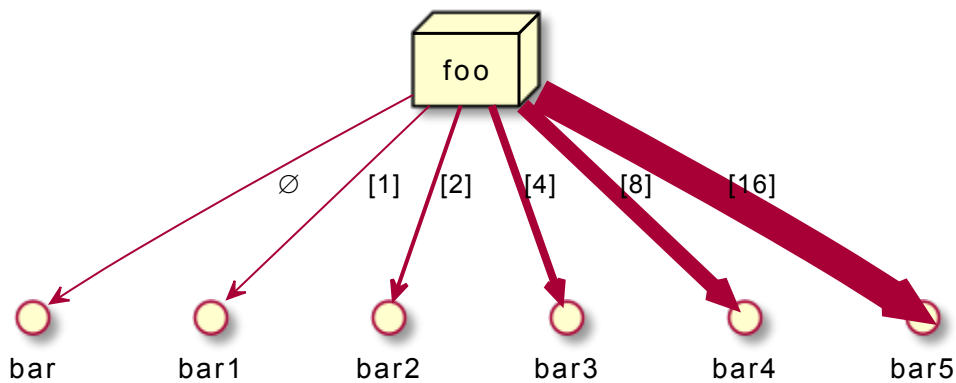
Bracketed line color



Line thickness

```
@startuml
title Bracketed line thickness
node foo
foo --> bar : ∅
foo -[thickness=1]-> bar1 : [1]
foo -[thickness=2]-> bar2 : [2]
foo -[thickness=4]-> bar3 : [4]
foo -[thickness=8]-> bar4 : [8]
foo -[thickness=16]-> bar5 : [16]
@enduml
```

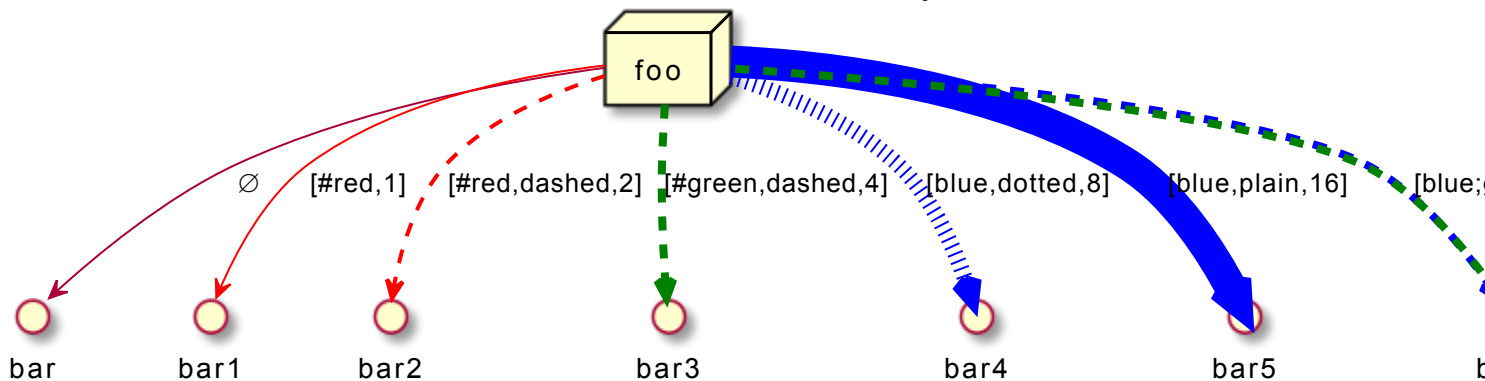
Bracketed line thickness



Mix

```
@startuml
title Bracketed line style mix
node foo
foo --> bar :  $\emptyset$ 
foo -[#red,thickness=1]-> bar1 : [#red,1]
foo -[#red,dashed,thickness=2]-> bar2 : [#red,dashed,2]
foo -[#green,dashed,thickness=4]-> bar3 : [#green,dashed,4]
foo -[#blue,dotted,thickness=8]-> bar4 : [blue,dotted,8]
foo -[#blue,plain,thickness=16]-> bar5 : [blue,plain,16]
foo -[#blue;#green,dashed,thickness=4]-> bar6 : [blue;green,dashed,4]
@enduml
```

Bracketed line style mix



Change arrow color and style (inline style)

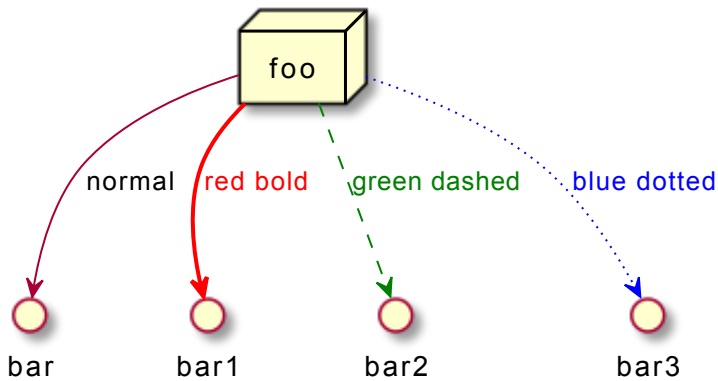
You can change the **color** or style of individual arrows using the inline following notation:

- `#color;line.[bold|dashed|dotted];text:color`

```

@startuml
node foo
foo --> bar : normal
foo --> bar1 #line:red;line.bold;text:red : red bold
foo --> bar2 #green;line.dashed;text:green : green dashed
foo --> bar3 #blue;line.dotted;text:blue : blue dotted
@enduml

```



Change element color and style (inline style)

You can change the [color](#) or style of individual element using the following notation:

- `#[color|back:color];line:color;line.[bold|dashed|dotted];text:color`

```

@startuml
agent a
cloud c #pink;line:red;line.bold;text:red
file f #palegreen;line:green;line.dashed;text:green
node n #aliceblue;line:blue;line.dotted;text:blue
@enduml

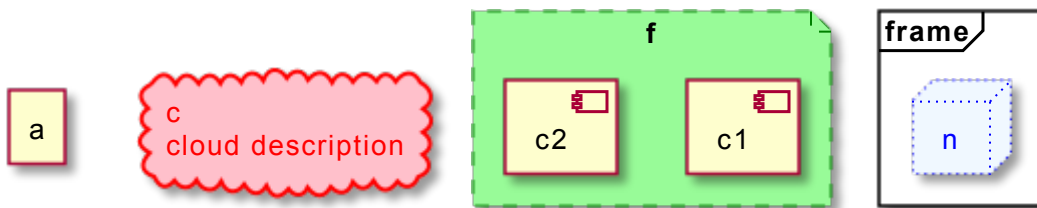
```



```

@startuml
agent a
cloud c #pink;line:red;line.bold;text:red [
c
cloud description
]
file f #palegreen;line:green;line.dashed;text:green {
[c1]
[c2]
}
frame frame {
node n #aliceblue;line:blue;line.dotted;text:blue
}
@enduml

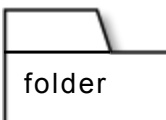
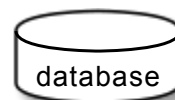
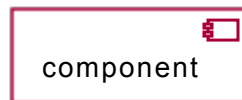
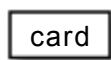
```



Nestable elements

Here are the nestable elements:

```
@startuml
artifact artifact {
}
card card {
}
cloud cloud {
}
component component {
}
database database {
}
file file {
}
folder folder {
}
frame frame {
}
hexagon hexagon {
}
node node {
}
package package {
}
queue queue {
}
rectangle rectangle {
}
stack stack {
}
storage storage {
}
@enduml
```



Packages and nested elements

Example with one level

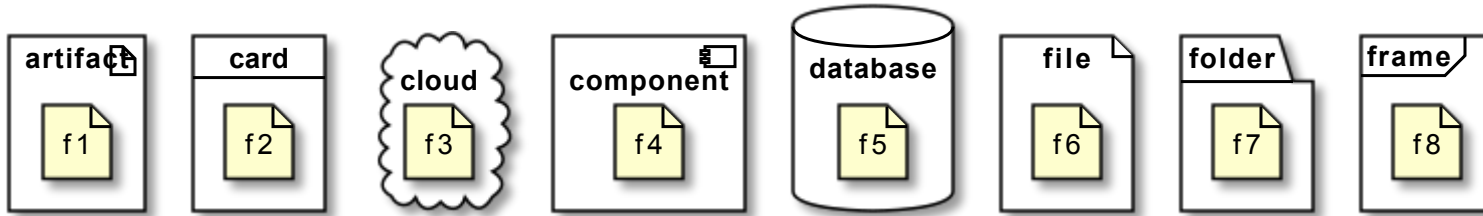
```

@startuml
artifact
file f1
}
card
file f2
}
cloud
file f3
}
component
file f4
}
database
file f5
}
file
file f6
}
folder
file f7
}
frame
file f8
}
hexagon
file f9
}
node
file f10
}
package
file f11
}
queue
file f12
}
rectangle
file f13
}
stack
file f14
}
storage
file f15
}

```

artifact	artifactVeryL0000000000000000000g	as "artifact" {
card	cardVeryL0000000000000000000g	as "card" {
cloud	cloudVeryL0000000000000000000g	as "cloud" {
component	componentVeryL0000000000000000000g	as "component" {
database	databaseVeryL0000000000000000000g	as "database" {
file	fileVeryL0000000000000000000g	as "file" {
folder	folderVeryL0000000000000000000g	as "folder" {
frame	frameVeryL0000000000000000000g	as "frame" {
hexagon	hexagonVeryL0000000000000000000g	as "hexagon" {
node	nodeVeryL0000000000000000000g	as "node" {
package	packageVeryL0000000000000000000g	as "package" {
queue	queueVeryL0000000000000000000g	as "queue" {
rectangle	rectangleVeryL0000000000000000000g	as "rectangle" {
stack	stackVeryL0000000000000000000g	as "stack" {
storage	storageVeryL0000000000000000000g	as "storage" {

@enduml



Other example

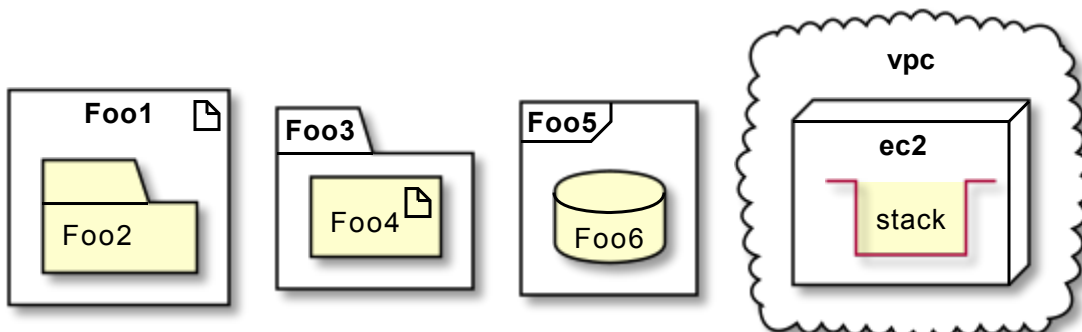
```
@startuml
artifact Foo1 {
  folder Foo2
}

folder Foo3 {
  artifact Foo4
}

frame Foo5 {
  database Foo6
}

cloud vpc {
  node ec2 {
    stack stack
  }
}

@enduml
```

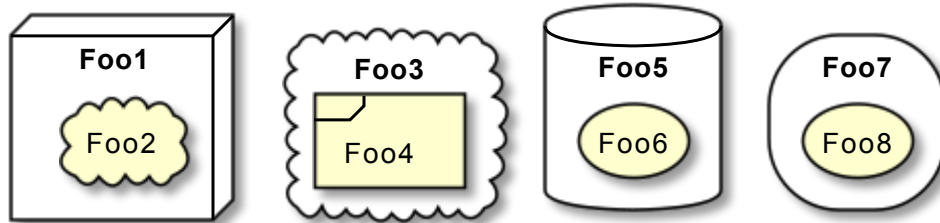


```
@startuml
node Foo1 {
  cloud Foo2
}

cloud Foo3 {
  frame Foo4
}

database Foo5 {
  storage Foo6
}

storage Foo7 {
  storage Foo8
}
@enduml
```

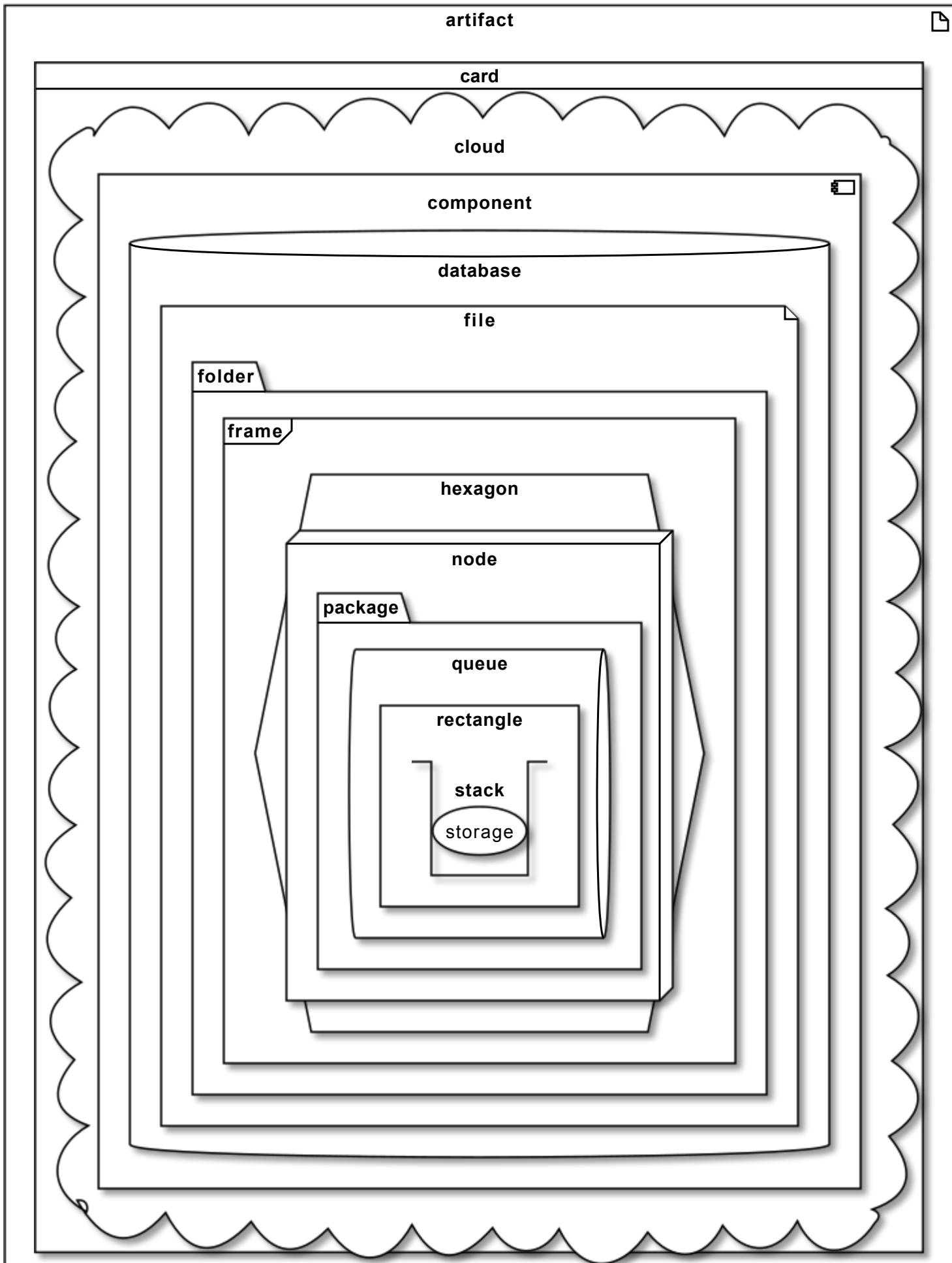


Full nesting

Here is all the nested elements:

- by alphabetical order:

```
@startuml
artifact artifact {
card card {
cloud cloud {
component component {
database database {
file file {
folder folder {
frame frame {
hexagon hexagon {
node node {
package package {
queue queue {
rectangle rectangle {
stack stack {
storage storage {
}
}
}
}
}
}
}
}
}
}
}
}
}
}
}
}
@enduml
```



- or reverse alphabetical order

```
@startuml
storage storage {
stack stack {
rectangle rectangle {
queue queue {
package package {
node node {
hexagon hexagon {
frame frame {
folder folder {
file file {
database database {
component component {
cloud cloud {
card card {
artifact artifact {
}
}
}
}
}
}
}
}
}
}
}
}
}
}
}
}
}
@enduml
```

storage

stack

rectangle

queue

package

node

hexagon

frame

folder

file

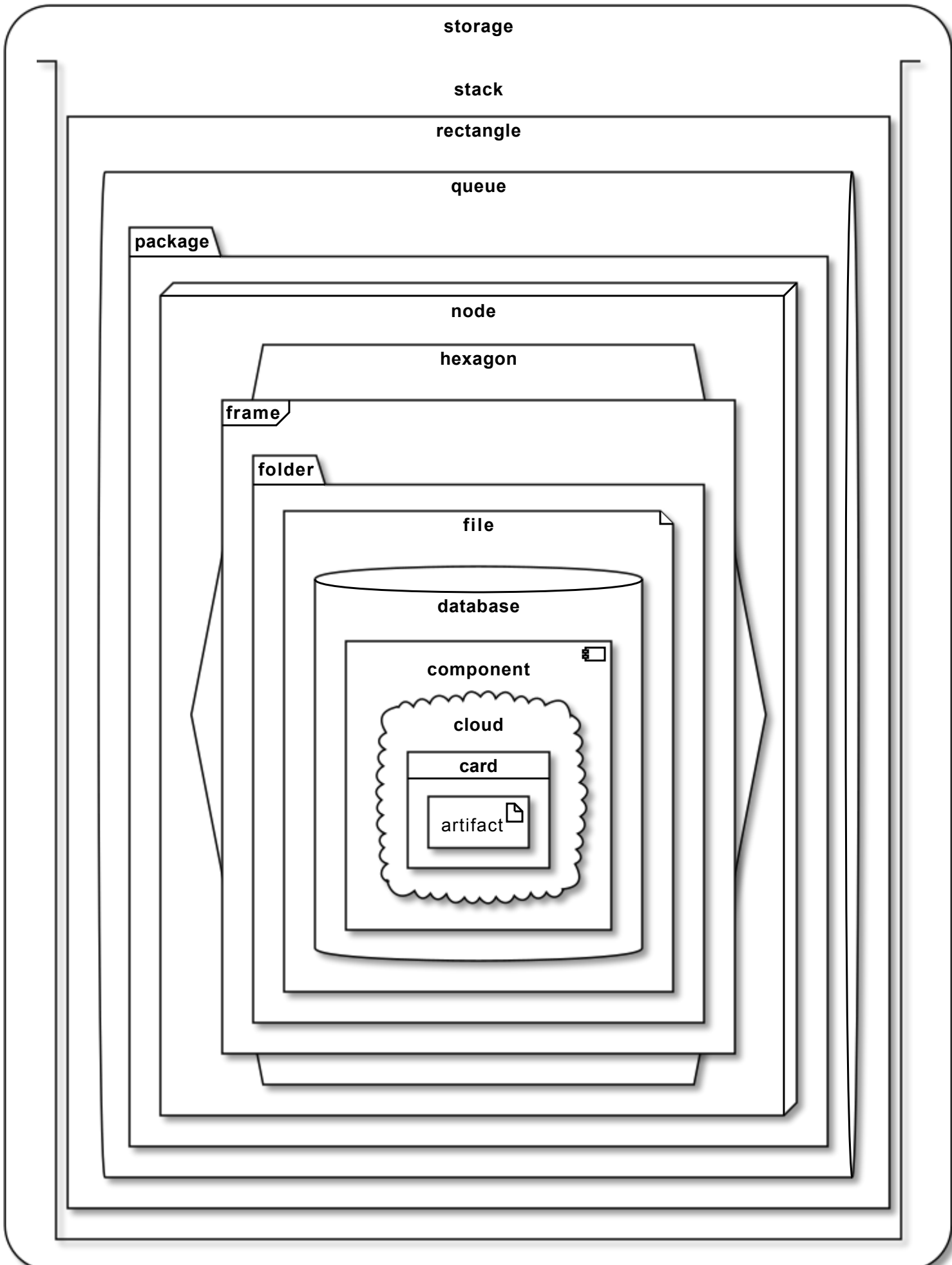
database

component

cloud

card

artifact

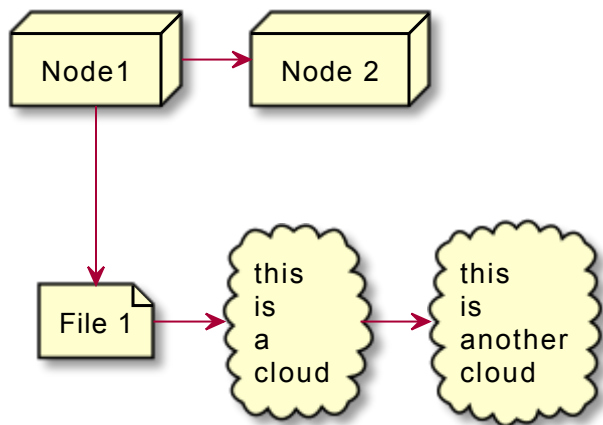


Alias

Simple alias with `as`

```
@startuml
node Node1 as n1
node "Node 2" as n2
file f1 as "File 1"
cloud c1 as "this
is
a
cloud"
cloud c2 [this
is
another
cloud]

n1 -> n2
n1 --> f1
f1 -> c1
c1 -> c2
@enduml
```



Examples of long alias

```
@startuml
actor      "actor"      as actorVeryL00000000000000000000g
agent      "agent"      as agentVeryL00000000000000000000g
artifact   "artifact"   as artifactVeryL00000000000000000000g
boundary   "boundary"   as boundaryVeryL00000000000000000000g
card       "card"       as cardVeryL00000000000000000000g
cloud      "cloud"      as cloudVeryL00000000000000000000g
collections "collections" as collectionsVeryL00000000000000000000g
component  "component"  as componentVeryL00000000000000000000g
control    "control"    as controlVeryL00000000000000000000g
database   "database"   as databaseVeryL00000000000000000000g
entity     "entity"     as entityVeryL00000000000000000000g
file       "file"       as fileVeryL00000000000000000000g
folder     "folder"     as folderVeryL00000000000000000000g
frame      "frame"      as frameVeryL00000000000000000000g
hexagon    "hexagon"    as hexagonVeryL00000000000000000000g
interface  "interface"  as interfaceVeryL00000000000000000000g
label      "label"      as labelVeryL00000000000000000000g
node       "node"       as nodeVeryL00000000000000000000g
package    "package"    as packageVeryL00000000000000000000g
person     "person"     as personVeryL00000000000000000000g
queue      "queue"      as queueVeryL00000000000000000000g
stack      "stack"      as stackVeryL00000000000000000000g
rectangle  "rectangle"  as rectangleVeryL00000000000000000000g
storage    "storage"    as storageVeryL00000000000000000000g
usecase    "usecase"    as usecaseVeryL00000000000000000000g
@enduml
```



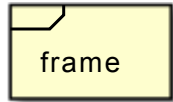
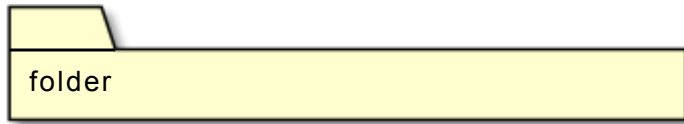
agent



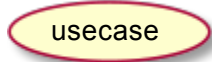
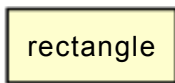
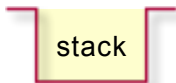
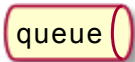
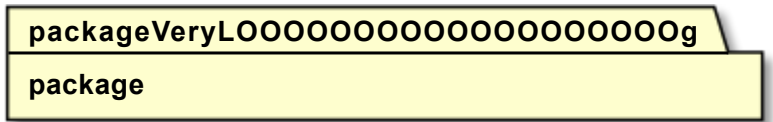
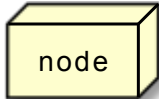
card



collections



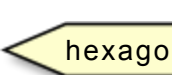
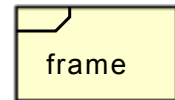
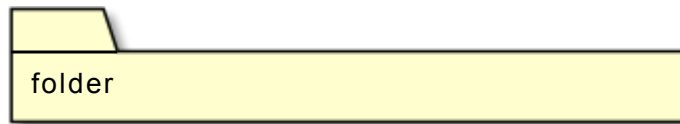
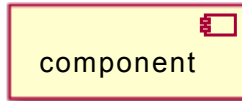
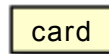
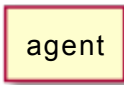
label



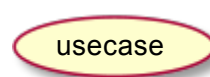
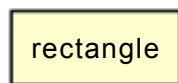
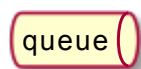
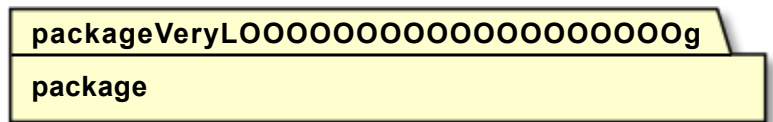
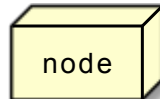
```

@startuml
actor      actorVeryL0000000000000000000g      as "actor"
agent      agentVeryL0000000000000000000g      as "agent"
artifact   artifactVeryL0000000000000000000g   as "artifact"
boundary   boundaryVeryL0000000000000000000g   as "boundary"
card        cardVeryL0000000000000000000g      as "card"
cloud       cloudVeryL0000000000000000000g      as "cloud"
collections collectionsVeryL0000000000000000000g as "collections"
component  componentVeryL0000000000000000000g  as "component"
control     controlVeryL0000000000000000000g   as "control"
database    databaseVeryL0000000000000000000g  as "database"
entity      entityVeryL0000000000000000000g    as "entity"
file        fileVeryL0000000000000000000g      as "file"
folder      folderVeryL0000000000000000000g    as "folder"
frame       frameVeryL0000000000000000000g     as "frame"
hexagon     hexagonVeryL0000000000000000000g   as "hexagon"
interface   interfaceVeryL0000000000000000000g as "interface"
label       labelVeryL0000000000000000000g     as "label"
node        nodeVeryL0000000000000000000g      as "node"
package     packageVeryL0000000000000000000g    as "package"
person      personVeryL0000000000000000000g    as "person"
queue       queueVeryL0000000000000000000g     as "queue"
stack       stackVeryL0000000000000000000g     as "stack"
rectangle   rectangleVeryL0000000000000000000g as "rectangle"
storage     storageVeryL0000000000000000000g   as "storage"
usecase     usecaseVeryL0000000000000000000g   as "usecase"
@enduml

```



label



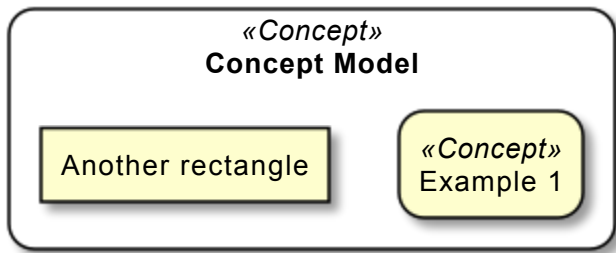
Round corner

```

@startuml
skinparam rectangle {
    roundCorner<<Concept>> 25
}

rectangle "Concept Model" <<Concept>> {
    rectangle "Example 1" <<Concept>> as ex1
    rectangle "Another rectangle"
}
@enduml

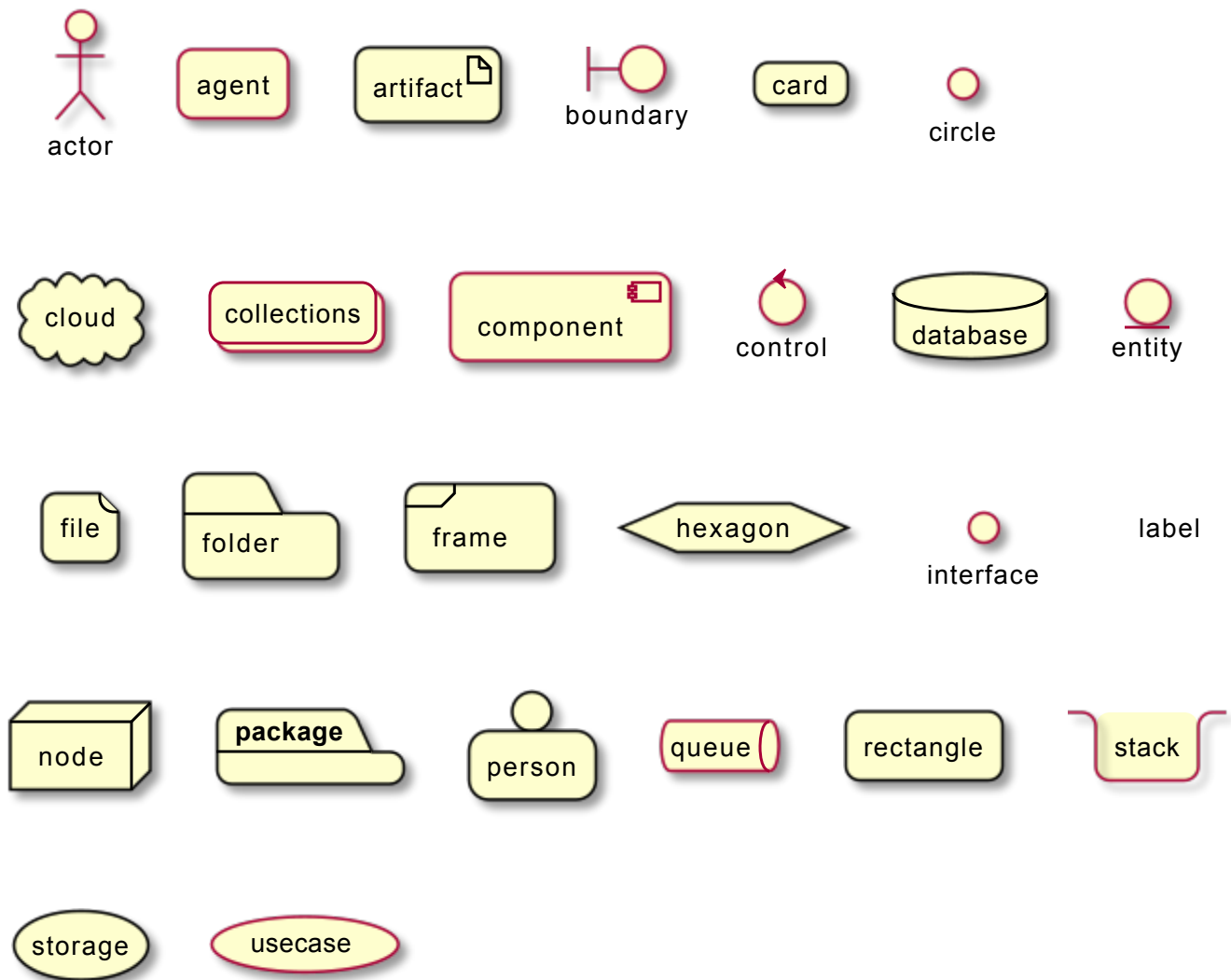
```



Specific SkinParameter

roundCorner

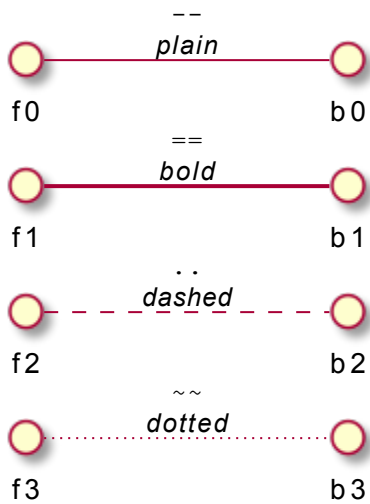
```
@startuml
skinparam roundCorner 15
actor actor
agent agent
artifact artifact
boundary boundary
card card
circle circle
cloud cloud
collections collections
component component
control control
database database
entity entity
file file
folder folder
frame frame
hexagon hexagon
interface interface
label label
node node
package package
person person
queue queue
rectangle rectangle
stack stack
storage storage
usecase usecase
@enduml
```



Appendix: All type of arrow line

```
@startuml
left to right direction
skinparam nodesep 5

f3 ~ b3 : ""~""\n//dotted//
f2 .. b2 : ""..""\n//dashed//
f1 == b1 : ""==""\n//bold//
f0 -- b0 : ""--""\n//plain//
@enduml
```



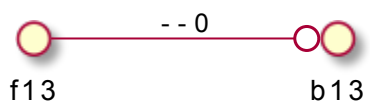
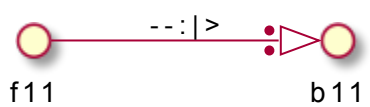
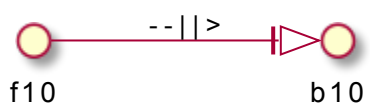
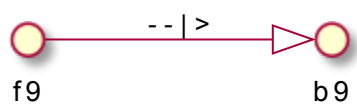
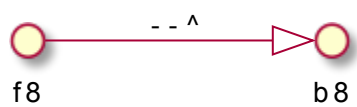
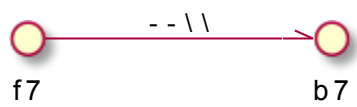
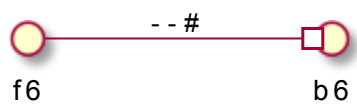
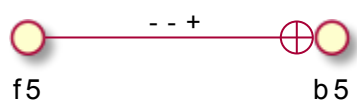
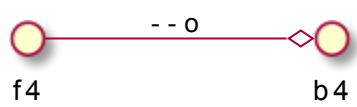
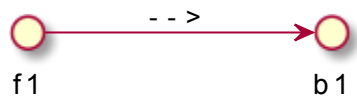
Appendix: All type of arrow head or '0' arrow

Type of arrow head

```
@startuml
left to right direction
skinparam nodesep 5

f13 --0 b13 : ""--0""
f12 --@ b12 : ""--@""
f11 --:|> b11 : ""--:|>""
f10 --||> b10 : ""--||>""
f9 --|> b9 : ""--|>""
f8 --^ b8 : ""--^""
f7 --\\ b7 : ""--\\\\""
f6 --# b6 : ""--#""
f5 --+ b5 : ""--+""
f4 --o b4 : ""--o""
f3 --* b3 : ""--*""
f2 -->> b2 : ""-->>""
f1 --> b1 : ""-->""
f0 -- b0 : ""--""

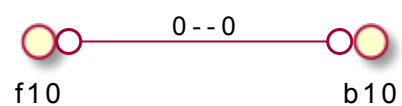
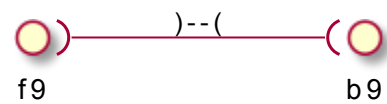
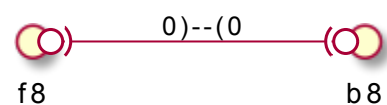
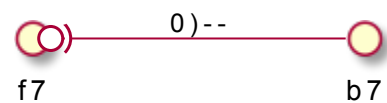
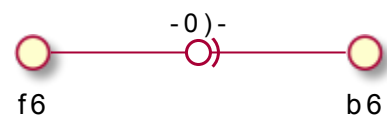
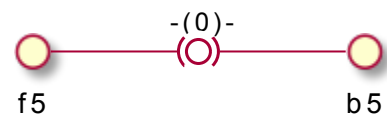
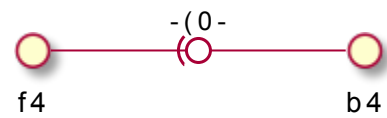
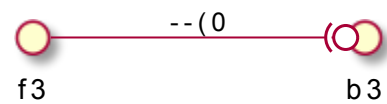
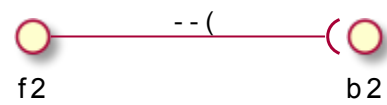
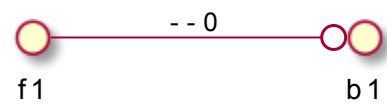
@enduml
```

Type of '0' arrow or circle arrow

```
@startuml
left to right direction
skinparam nodesep 5

f10 0--0 b10 : "" 0--0 ""
f9  )--(  b9  : "" )--( ""
f8  0)--(0 b8  : "" 0)--(0""
f7  0)--  b7  : "" 0)-- ""
f6 -0)--  b6  : "" -0)-- ""
f5 -(0)-- b5  : "" -(0)-- ""
f4 -(0--  b4  : "" -(0-- ""
f3 --(0  b3  : "" --(0 ""
f2 --(  b2  : "" --( ""
f1 --0  b1  : "" --0 ""
@enduml
```



Appendix: Test of inline style on all element

Simple element

```
@startuml
actor actor           #aliceblue;line:blue;line.dotted;text:blue
actor/ "actor/"       #aliceblue;line:blue;line.dotted;text:blue
agent agent           #aliceblue;line:blue;line.dotted;text:blue
artifact artifact     #aliceblue;line:blue;line.dotted;text:blue
boundary boundary     #aliceblue;line:blue;line.dotted;text:blue
card card             #aliceblue;line:blue;line.dotted;text:blue
circle circle         #aliceblue;line:blue;line.dotted;text:blue
cloud cloud           #aliceblue;line:blue;line.dotted;text:blue
collections collections #aliceblue;line:blue;line.dotted;text:blue
component component   #aliceblue;line:blue;line.dotted;text:blue
control control       #aliceblue;line:blue;line.dotted;text:blue
database database     #aliceblue;line:blue;line.dotted;text:blue
entity entity         #aliceblue;line:blue;line.dotted;text:blue
file file             #aliceblue;line:blue;line.dotted;text:blue
folder folder         #aliceblue;line:blue;line.dotted;text:blue
frame frame           #aliceblue;line:blue;line.dotted;text:blue
hexagon hexagon       #aliceblue;line:blue;line.dotted;text:blue
interface interface   #aliceblue;line:blue;line.dotted;text:blue
label label           #aliceblue;line:blue;line.dotted;text:blue
node node             #aliceblue;line:blue;line.dotted;text:blue
package package       #aliceblue;line:blue;line.dotted;text:blue
person person         #aliceblue;line:blue;line.dotted;text:blue
queue queue           #aliceblue;line:blue;line.dotted;text:blue
rectangle rectangle   #aliceblue;line:blue;line.dotted;text:blue
stack stack           #aliceblue;line:blue;line.dotted;text:blue
storage storage       #aliceblue;line:blue;line.dotted;text:blue
usecase usecase       #aliceblue;line:blue;line.dotted;text:blue
usecase/ "usecase/"   #aliceblue;line:blue;line.dotted;text:blue
@enduml
```



actor



actor/



agent



artifact



boundary



card



circle



cloud



collections



component



control



database



entity



file



folder



frame

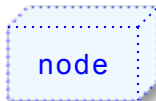


hexagon



interface

label



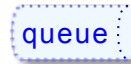
node



package



person



queue



rectangle



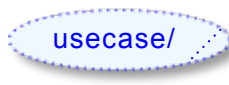
stack



storage



usecase



usecase/

Nested element

Without sub-element

```
@startuml
artifact artifact #aliceblue;line:blue;line.dotted;text:blue {
}
card card #aliceblue;line:blue;line.dotted;text:blue {
}
cloud cloud #aliceblue;line:blue;line.dotted;text:blue {
}
component component #aliceblue;line:blue;line.dotted;text:blue {
}
database database #aliceblue;line:blue;line.dotted;text:blue {
}
file file #aliceblue;line:blue;line.dotted;text:blue {
}
folder folder #aliceblue;line:blue;line.dotted;text:blue {
}
frame frame #aliceblue;line:blue;line.dotted;text:blue {
}
hexagon hexagon #aliceblue;line:blue;line.dotted;text:blue {
}
node node #aliceblue;line:blue;line.dotted;text:blue {
}
package package #aliceblue;line:blue;line.dotted;text:blue {
}
queue queue #aliceblue;line:blue;line.dotted;text:blue {
}
rectangle rectangle #aliceblue;line:blue;line.dotted;text:blue {
}
stack stack #aliceblue;line:blue;line.dotted;text:blue {
}
storage storage #aliceblue;line:blue;line.dotted;text:blue {
}
@enduml
```



artifact



card



cloud



component



database



file



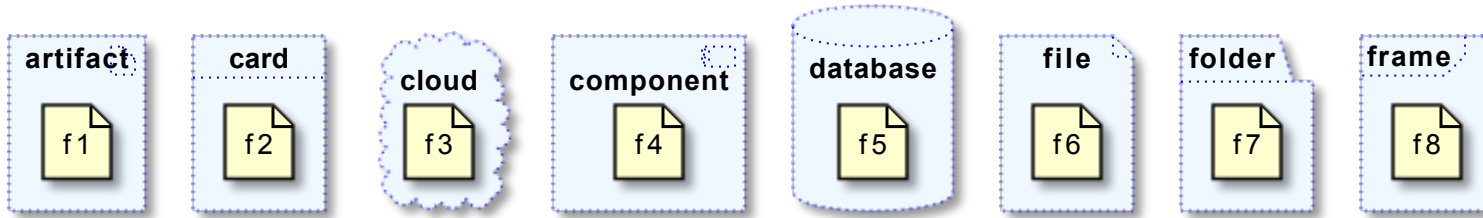
folder

With sub-element

```
@startuml
artifact
file f1
}
card
file f2
}
cloud
file f3
}
component
file f4
}
database
file f5
}
file
file f6
}
folder
file f7
}
frame
file f8
}
hexagon
file f9
}
node
file f10
}
package
file f11
}
queue
file f12
}
rectangle
file f13
}
stack
file f14
}
storage
file f15
}
```

artifact	artifactVeryL0000000000000000000g	as "artifact" #aliceblue;line:blue;line.dotted
card	cardVeryL00000000000000000000g	as "card" #aliceblue;line:blue;line.dotted
cloud	cloudVeryL00000000000000000000g	as "cloud" #aliceblue;line:blue;line.dotted
component	componentVeryL00000000000000000000g	as "component" #aliceblue;line:blue;line.dotted
database	databaseVeryL00000000000000000000g	as "database" #aliceblue;line:blue;line.dotted
file	fileVeryL00000000000000000000g	as "file" #aliceblue;line:blue;line.dotted
folder	folderVeryL00000000000000000000g	as "folder" #aliceblue;line:blue;line.dotted
frame	frameVeryL00000000000000000000g	as "frame" #aliceblue;line:blue;line.dotted
hexagon	hexagonVeryL00000000000000000000g	as "hexagon" #aliceblue;line:blue;line.dotted
node	nodeVeryL00000000000000000000g	as "node" #aliceblue;line:blue;line.dotted
package	packageVeryL00000000000000000000g	as "package" #aliceblue;line:blue;line.dotted
queue	queueVeryL00000000000000000000g	as "queue" #aliceblue;line:blue;line.dotted
rectangle	rectangleVeryL00000000000000000000g	as "rectangle" #aliceblue;line:blue;line.dotted
stack	stackVeryL00000000000000000000g	as "stack" #aliceblue;line:blue;line.dotted
storage	storageVeryL00000000000000000000g	as "storage" #aliceblue;line:blue;line.dotted

@enduml



Appendix: Test of style on all element

Simple element

Global style (on componentDiagram)

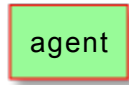
```
@startuml
<style>
componentDiagram {
  BackGroundColor palegreen
  LineThickness 1
  LineColor red
}
document {
  BackGroundColor white
}
</style>
actor actor
actor/ "actor/"
agent agent
artifact artifact
boundary boundary
card card
circle circle
cloud cloud
collections collections
component component
control control
database database
entity entity
file file
folder folder
frame frame
hexagon hexagon
interface interface
label label
node node
package package
person person
queue queue
rectangle rectangle
stack stack
storage storage
usecase usecase
usecase/ "usecase/"
@enduml
```



actor



actor/



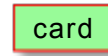
agent



artifact



boundary



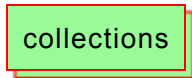
card



circle



cloud



collections



component



control



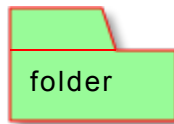
database



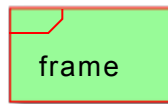
entity



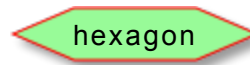
file



folder



frame

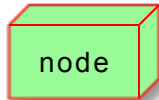


hexagon

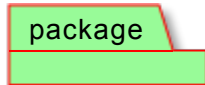


interface

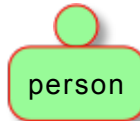
label



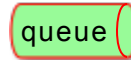
node



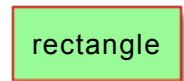
package



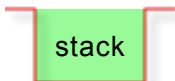
person



queue



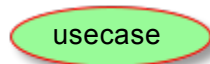
rectangle



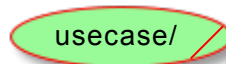
stack



storage



usecase



usecase/

Style for each element

```
@startuml
<style>
actor {
  BackGroundColor #f80c12
  LineThickness 1
  LineColor black
}
agent {
  BackGroundColor #f80c12
  LineThickness 1
  LineColor black
}
artifact {
  BackGroundColor #ee1100
  LineThickness 1
  LineColor black
}
boundary {
  BackGroundColor #ee1100
  LineThickness 1
  LineColor black
}
card {
  BackGroundColor #ff3311
  LineThickness 1
  LineColor black
}
circle {
  BackGroundColor #ff3311
  LineThickness 1
  LineColor black
}
cloud {
  BackGroundColor #ff4422
  LineThickness 1
  LineColor black
}
collections {
  BackGroundColor #ff4422
  LineThickness 1
  LineColor black
}
component {
  BackGroundColor #ff6644
  LineThickness 1
  LineColor black
}
```

```
}
control {
  BackGroundColor #ff6644
  LineThickness 1
  LineColor black
}
database {
  BackGroundColor #ff9933
  LineThickness 1
  LineColor black
}
entity {
  BackGroundColor #feae2d
  LineThickness 1
  LineColor black
}
file {
  BackGroundColor #feae2d
  LineThickness 1
  LineColor black
}
folder {
  BackGroundColor #ccbb33
  LineThickness 1
  LineColor black
}
frame {
  BackGroundColor #d0c310
  LineThickness 1
  LineColor black
}
hexagon {
  BackGroundColor #aacc22
  LineThickness 1
  LineColor black
}
interface {
  BackGroundColor #69d025
  LineThickness 1
  LineColor black
}
label {
  BackGroundColor black
  LineThickness 1
  LineColor black
}
```

```
node {
  BackGroundColor #22ccaa
  LineThickness 1
  LineColor black
}
package {
  BackGroundColor #12bdb9
  LineThickness 1
  LineColor black
}
person {
  BackGroundColor #11aabb
  LineThickness 1
  LineColor black
}
queue {
  BackGroundColor #11aabb
  LineThickness 1
  LineColor black
}
rectangle {
  BackGroundColor #4444dd
  LineThickness 1
  LineColor black
}
stack {
  BackGroundColor #3311bb
  LineThickness 1
  LineColor black
}
storage {
  BackGroundColor #3b0cbd
  LineThickness 1
  LineColor black
}
usecase {
  BackGroundColor #442299
  LineThickness 1
  LineColor black
}
</style>
actor actor
actor/ "actor/"
agent agent
artifact artifact
boundary boundary
```

card card
circle circle
cloud cloud
collections collections
component component
control control
database database
entity entity
file file
folder folder
frame frame
hexagon hexagon
interface interface
label label
node node
package package
person person
queue queue
rectangle rectangle
stack stack
storage storage
usecase usecase
usecase/ "usecase/"
@enduml



actor



actor/



agent



artifact



boundary



card



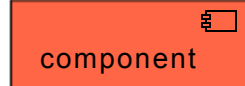
circle



cloud



collections



component



control



database



entity



file



folder



frame

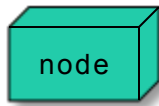


hexagon

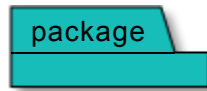


interface

label



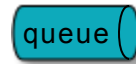
node



package



person



queue



rectangle



stack



storage



usecase

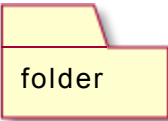
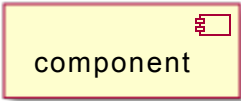
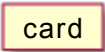


usecase/

Nested element (without level)

Global style (on componentDiagram)

```
<style>
componentDiagram {
  BackGroundColor palegreen
  LineThickness 2
  LineColor red
}
</style>
artifact artifact {
}
card card {
}
cloud cloud {
}
component component {
}
database database {
}
file file {
}
folder folder {
}
frame frame {
}
hexagon hexagon {
}
node node {
}
package package {
}
queue queue {
}
rectangle rectangle {
}
stack stack {
}
storage storage {
}
@enduml
```



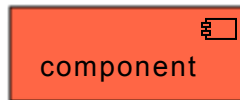
Style for each nested element

```
@startuml
<style>
artifact {
  BackGroundColor #ee1100
  LineThickness 1
  LineColor black
}
card {
  BackGroundColor #ff3311
  LineThickness 1
  LineColor black
}
cloud {
  BackGroundColor #ff4422
  LineThickness 1
  LineColor black
}
component {
  BackGroundColor #ff6644
  LineThickness 1
  LineColor black
}
database {
  BackGroundColor #ff9933
  LineThickness 1
  LineColor black
}
file {
  BackGroundColor #feae2d
  LineThickness 1
  LineColor black
}
folder {
  BackGroundColor #ccbb33
  LineThickness 1
  LineColor black
}
frame {
  BackGroundColor #d0c310
  LineThickness 1
  LineColor black
}
hexagon {
  BackGroundColor #aacc22
  LineThickness 1
  LineColor black
}
```

```
}
node {
  BackGroundColor #22ccaa
  LineThickness 1
  LineColor black
}
package {
  BackGroundColor #12bdb9
  LineThickness 1
  LineColor black
}
queue {
  BackGroundColor #11aabb
  LineThickness 1
  LineColor black
}
rectangle {
  BackGroundColor #4444dd
  LineThickness 1
  LineColor black
}
stack {
  BackGroundColor #3311bb
  LineThickness 1
  LineColor black
}
storage {
  BackGroundColor #3b0cbd
  LineThickness 1
  LineColor black
}

</style>
artifact artifact {
}
card card {
}
cloud cloud {
}
component component {
}
database database {
}
file file {
}
folder folder {
```

```
}  
frame frame {  
}  
hexagon hexagon {  
}  
node node {  
}  
package package {  
}  
queue queue {  
}  
rectangle rectangle {  
}  
stack stack {  
}  
storage storage {  
}  
@enduml
```

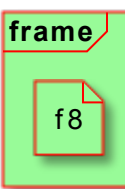
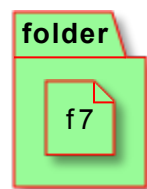
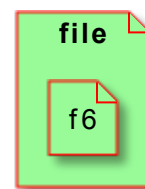
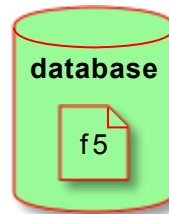
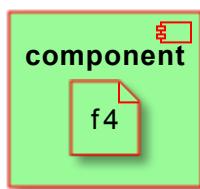
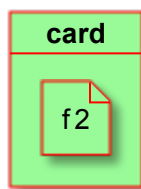
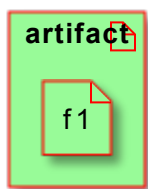


Nested element (with one level)

Global style (on componentDiagram)


```
@startuml
<style>
componentDiagram {
  BackgroundColor palegreen
  LineThickness 1
  LineColor red
}
document {
  BackgroundColor white
}
</style>
artifact e1 as "artifact" {
file f1
}
card e2 as "card" {
file f2
}
cloud e3 as "cloud" {
file f3
}
component e4 as "component" {
file f4
}
database e5 as "database" {
file f5
}
file e6 as "file" {
file f6
}
folder e7 as "folder" {
file f7
}
frame e8 as "frame" {
file f8
}
hexagon e9 as "hexagon" {
file f9
}
node e10 as "node" {
file f10
}
package e11 as "package" {
file f11
}
queue e12 as "queue" {
file f12
}
```

```
}  
rectangle e13 as "rectangle" {  
  file f13  
}  
stack e14 as "stack" {  
  file f14  
}  
storage e15 as "storage" {  
  file f15  
}  
@enduml
```

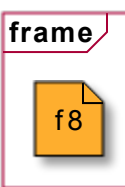
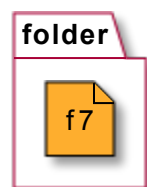
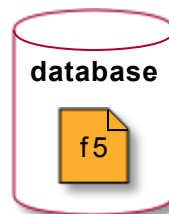
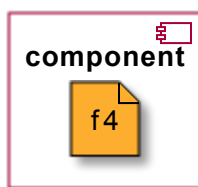
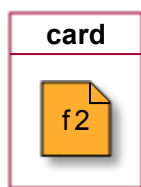
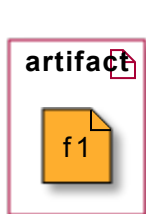


Style for each nested element

```
@startuml
<style>
artifact {
  BackGroundColor #ee1100
  LineThickness 1
  LineColor black
}
card {
  BackGroundColor #ff3311
  LineThickness 1
  LineColor black
}
cloud {
  BackGroundColor #ff4422
  LineThickness 1
  LineColor black
}
component {
  BackGroundColor #ff6644
  LineThickness 1
  LineColor black
}
database {
  BackGroundColor #ff9933
  LineThickness 1
  LineColor black
}
file {
  BackGroundColor #feae2d
  LineThickness 1
  LineColor black
}
folder {
  BackGroundColor #ccbb33
  LineThickness 1
  LineColor black
}
frame {
  BackGroundColor #d0c310
  LineThickness 1
  LineColor black
}
hexagon {
  BackGroundColor #aacc22
  LineThickness 1
  LineColor black
}
```

```
}
node {
  BackGroundColor #22ccaa
  LineThickness 1
  LineColor black
}
package {
  BackGroundColor #12bdb9
  LineThickness 1
  LineColor black
}
queue {
  BackGroundColor #11aabb
  LineThickness 1
  LineColor black
}
rectangle {
  BackGroundColor #4444dd
  LineThickness 1
  LineColor black
}
stack {
  BackGroundColor #3311bb
  LineThickness 1
  LineColor black
}
storage {
  BackGroundColor #3b0cbd
  LineThickness 1
  LineColor black
}
</style>
artifact e1 as "artifact" {
  file f1
}
card e2 as "card" {
  file f2
}
cloud e3 as "cloud" {
  file f3
}
component e4 as "component" {
  file f4
}
database e5 as "database" {
  file f5
}
```

```
}  
file e6 as "file" {  
  file f6  
}  
folder e7 as "folder" {  
  file f7  
}  
frame e8 as "frame" {  
  file f8  
}  
hexagon e9 as "hexagon" {  
  file f9  
}  
node e10 as "node" {  
  file f10  
}  
package e11 as "package" {  
  file f11  
}  
queue e12 as "queue" {  
  file f12  
}  
rectangle e13 as "rectangle" {  
  file f13  
}  
stack e14 as "stack" {  
  file f14  
}  
storage e15 as "storage" {  
  file f15  
}  
@enduml
```



Appendix: Test of stereotype with style on all element

Simple element

```
@startuml
<style>
.stereo {
  BackgroundColor palegreen
}
</style>
actor actor << stereo >>
actor/ "actor/" << stereo >>
agent agent << stereo >>
artifact artifact << stereo >>
boundary boundary << stereo >>
card card << stereo >>
circle circle << stereo >>
cloud cloud << stereo >>
collections collections << stereo >>
component component << stereo >>
control control << stereo >>
database database << stereo >>
entity entity << stereo >>
file file << stereo >>
folder folder << stereo >>
frame frame << stereo >>
hexagon hexagon << stereo >>
interface interface << stereo >>
label label << stereo >>
node node << stereo >>
package package << stereo >>
person person << stereo >>
queue queue << stereo >>
rectangle rectangle << stereo >>
stack stack << stereo >>
storage storage << stereo >>
usecase usecase << stereo >>
usecase/ "usecase/" << stereo >>
@enduml
```

«stereo»



actor

«stereo»



actor/

«stereo»
agent

«stereo»
artifact



boundary

«stereo»
card

«stereo»



circle

«stereo»
cloud

«stereo»
collections

«stereo»
component



control

«stereo»
database

«stereo»



entity

«stereo»
file

«stereo»
folder

«stereo»
frame

«stereo»
hexagon

«stereo»



interface

«stereo»
label

«stereo»
node

package
«stereo»

«stereo»
person

«stereo»
queue

«stereo»
rectangle

«stereo»
stack

«stereo»
storage

«stereo»
usecase

«stereo»
usecase/