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Creole синтаксис

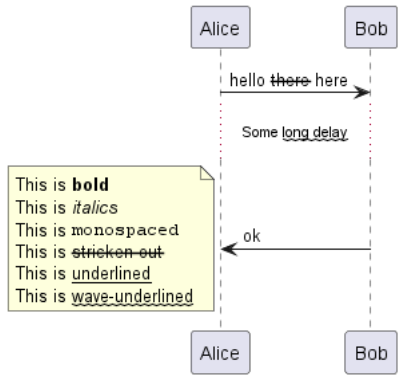
Creole - это облегчённый язык разметки, используемый в различных вики.

Чтобы иметь стандартизированный способ стилизации текста, в PlantUML интегрирован легковесный движок Creole и все диаграммы в PlantUML поддерживают этот синтаксис.

Также сохраняется совместимость с синтаксисом HTML.

Emphasized text

```
@startuml
Alice -> Bob : hello --there-- here
... Some ~~long delay~~ ...
Bob -> Alice : ok
note left
  This is **bold**
  This is //italics//
  This is ""monospaced""
  This is --stricken-out--
  This is __underlined__
  This is ~~wave-underlined~~
end note
@enduml
```



Lists

You can use numbered and bulleted lists in node text, notes, etc.

FIXME You cannot quite mix numbers and bullets in a list and its sublist.

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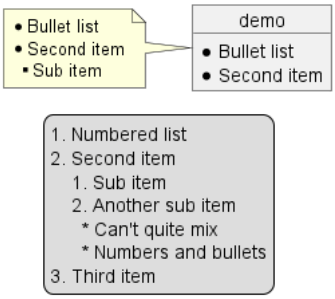
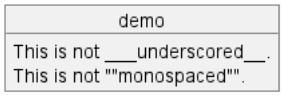
```
object demo {
  * Bullet list
  * Second item
}
note left
  * Bullet list
  * Second item
  ** Sub item
end note

legend
  # Numbered list
  # Second item
  ## Sub item
  ## Another sub item
        * Can't quite mix
        * Numbers and bullets
  # Third item
end legend
@enduml
```



Escape character

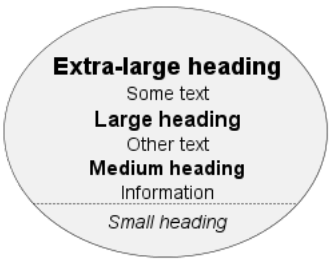
You can use the tilde ~ to escape special creole characters.

```
@startuml
object demo {
  This is not ~___underscored__.
  This is not ~""monospaced"".
}
@enduml
```



Headings

```
@startuml
usecase UC1 as "
= Extra-large heading
Some text
== Large heading
Other text
=== Medium heading
Information
....
==== Small heading"
@enduml
```



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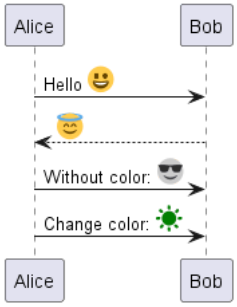
All emojis from Twemoji (see EmojiTwo on Github) are available using the following syntax:

```
@startuml
Alice -> Bob : Hello <:1f600:>
return <:innocent:>
Alice -> Bob : Without color: <#0:sunglasses:>
Alice -> Bob : Change color: <#green:sunny:>
@enduml
```



Use the emoji cheat sheet to select emoji.

You can also use the following PlantUML command to list available emoji:

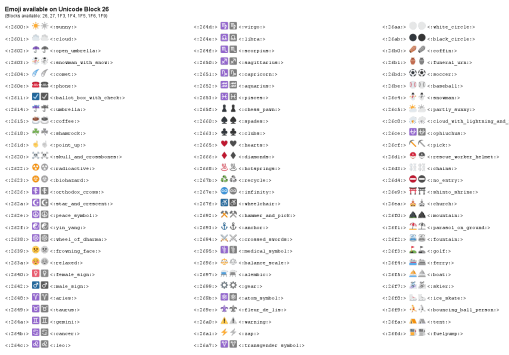
```
@startuml
emoji <block>
@enduml
```

Over 580 emojis from the following Unicode blocks are available:

- Unicode block 26
- Unicode block 1F3
- Unicode block 1F4
- Unicode block 1F5
- Unicode block 1F6
- Unicode block 1F9

Unicode block 26

```
@startuml
emoji 26
@enduml
```



Horizontal lines

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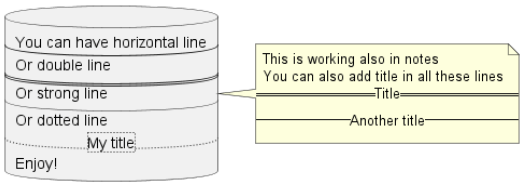
```
database DB1 as "
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
Enjoy!
"
note right
  This is working also in notes
  You can also add title in all these lines
  ==Title==
  --Another title--
end note

@enduml
```



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Appendix: Examples "Creole horizontal lir diagrams
Style equivalent (betv Creole and HTML)

Links

You can also use URL and links.

Simple links are define using two square brackets (or three square brackets for field or method on class diagram).

Example:

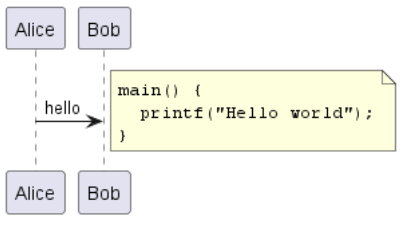
- `[[http://plantuml.com]]`
- `[[http://plantuml.com This label is printed]]`
- `[[http://plantuml.com{Optional tooltip} This label is printed]]`

URL can also be authenticated.

Code

You can use `<code>` to display some programming code in your diagram (sorry, syntax highlighting is not yet supported).

```
@startuml
Alice -> Bob : hello
note right
<code>
main() {
  printf("Hello world");
}
</code>
end note
@enduml
```



This is especially useful to illustrate some PlantUML code and the resulting rendering:

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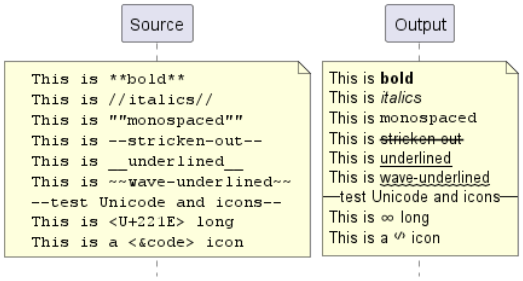
```
hide footbox
note over Source
<code>
  This is **bold**
  This is //italics//
  This is ""monospaced""
  This is --stricken-out--
  This is __underlined__
  This is ~~wave-underlined~~
  --test Unicode and icons--
  This is <U+221E> long
  This is a <&code> icon
</code>
end note
/note over Output
  This is **bold**
  This is //italics//
  This is ""monospaced""
  This is --stricken-out--
  This is __underlined__
  This is ~~wave-underlined~~
  --test Unicode and icons--
  This is <U+221E> long
  This is a <&code> icon
end note
@enduml
```

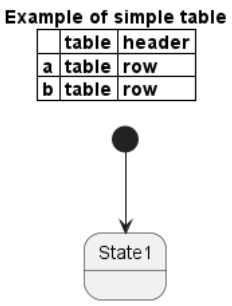


Table

Create a table

It is possible to build table, with | separator.

```
@startuml
skinparam titleFontSize 14
title
  Example of simple table
  |= |= table |= header |
  | a | table | row |
  | b | table | row |
end title
[*] --> State1
@enduml
```



Add color on rows or cells

You can specify background colors of rows and cells:

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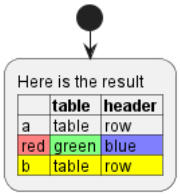
```
start
:Here is the result
|= |= table |= header |
| a | table | row |
|<#FF8080> red |<#80FF80> green |<#8080FF> blue |
<#yellow>| b | table | row |;
@enduml
```



Add color on border and text

You can also specify colors of text and borders.

```
@startuml
title
<#lightblue,#red>|=  Step  |=  Date  |=  Name  |=
<#lightgreen>|  1.1  |  TBD  | plantuml news |<#N
end title
@enduml
```

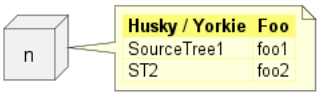
Step	Date	Name	Status	Link
1.1	TBD	plantuml news	Unknown	plantuml news

[Ref. QA-7184]

No border or same color as the background

You can also set the border color to the same color as the background.

```
@startuml
node n
note right of n
  <#FBFB77,#FBFB77>|= Husky / Yorkie |= Foo |
  | SourceTree1 | foo1 |
  | ST2 | foo2 |
end note
@enduml
```



[Ref. QA-12448]

Bold header or not

= as the first char of a cell indicates whether to make it bold (usually used for headers), or not.

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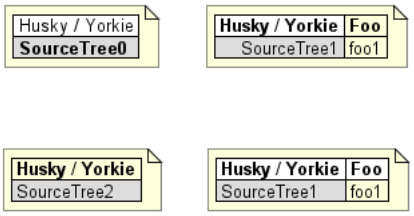
```
note as deepCSS0
  |<#white> Husky / Yorkie |
  |=<#gainsboro> SourceTree0 |
endnote

note as deepCSS1
  |= <#white> Husky / Yorkie |= Foo |
  |<#gainsboro><r> SourceTree1 | foo1 |
endnote

note as deepCSS2
  |= Husky / Yorkie |
  |<#gainsboro> SourceTree2 |
endnote

note as deepCSS3
  <#white>|= Husky / Yorkie |= Foo |
  |<#gainsboro> SourceTree1 | foo1 |
endnote
@enduml
```



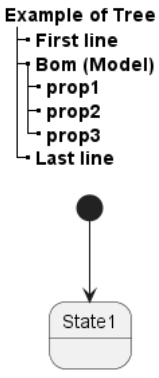
[Ref. QA-10923]

Tree

You can use |_ characters to build a tree.

On common commands, like title:

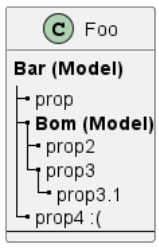
```
@startuml
skinparam titleFontSize 14
title
  Example of Tree
  |_ First line
  |_ **Bom (Model)**
    |_ prop1
    |_ prop2
    |_ prop3
  |_ Last line
end title
[*] --> State1
@enduml
```



On Class diagram.

(Please note how we have to use an empty second compartment, else the parentheses in **(Model)** cause that text to be moved to a separate first compartment):

```
@startuml
class Foo {
**Bar (Model)**
|_ prop
|_ **Bom (Model)**
  |_ prop2
  |_ prop3
    |_ prop3.1
|_ prop4 :(
--
}
@enduml
```



[Ref. QA-3448]

On Component or Deployment diagrams:

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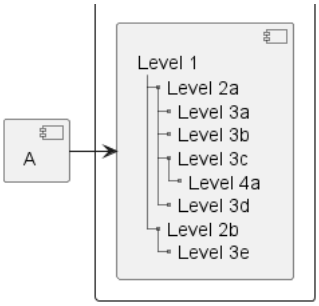
```
[A] as A
rectangle "Box B" {
    component B [
        Level 1
        |_ Level 2a
          |_ Level 3a
          |_ Level 3b
          |_ Level 3c
            |_ Level 4a
          |_ Level 3d
        |_ Level 2b
          |_ Level 3e
    ]
}
A -> B
@enduml
```

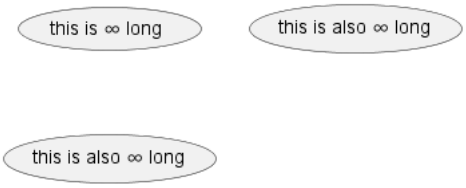


[Ref. QA-11365]

Special characters

It's possible to use any unicode character, either directly or with syntax `&#XXXX;` or `<U+XXXX>` :

```
@startuml
usecase direct as "this is ∞ long"
usecase ampHash as "this is also &#8734; long"
usecase angleBrackets as "this is also <U+221E> l
@enduml
```



Legacy HTML

You can mix Creole with the following HTML tags:

- `<b>` for bold text
- `<u>` or `<u:#AAAAAA>` or `<u:[[color|colorName]]>` for underline
- `<i>` for italic
- `<s>` or `<s:#AAAAAA>` or `<s:[[color|colorName]]>` for strike text
- `<w>` or `<w:#AAAAAA>` or `<w:[[color|colorName]]>` for wave underline text
- `<plain>` for plain text
- `<color:#AAAAAA>` or `<color:[[color|colorName]]>`
- `<back:#AAAAAA>` or `<back:[[color|colorName]]>` for background color
- `<size:nn>` to change font size
- `<img:file>` : the file must be accessible by the filesystem
- `<img:http://plantuml.com/logo3.png>` : the URL must be available from the Internet

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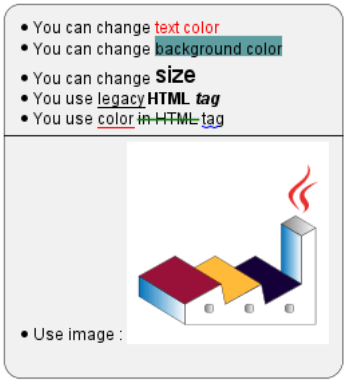
```
:* You can change <color:red>text color</color>
* You can change <back:cadetblue>background color
* You can change <size:18>size</size>
* You use <u>legacy</u> <b>HTML <i>tag</i></b>
* You use <u:red>color</u> <s:green>in HTML</s> <
----
* Use image : <img:http://plantuml.com/logo3.png>
;
@enduml
```



Common HTML element

```
@startuml
hide footbox
note over Source
<code>
  This is <b>bold</b>
  This is <i>italics</i>
  This is <font:monospaced>monospaced</font>
  This is <s>stroked</s>
  This is <u>underlined</u>
  This is <w>waved</w>
  This is <s:green>stroked</s>
  This is <u:red>underlined</u>
  This is <w:#0000FF>waved</w>
  This is <b>a bold text containing <plain>plain 
  -- other examples --
  This is <color:blue>Blue</color>
  This is <back:orange>Orange background</back>
  This is <size:20>big</size>
</code>
end note
/note over Output
  This is <b>bold</b>
  This is <i>italics</i>
  This is <font:monospaced>monospaced</font>
  This is <s>stroked</s>
  This is <u>underlined</u>
  This is <w>waved</w>
  This is <s:green>stroked</s>
  This is <u:red>underlined</u>
  This is <w:#0000FF>waved</w>
  This is <b>a bold text containing <plain>plain 
  -- other examples --
  This is <color:blue>Blue</color>
  This is <back:orange>Orange background</back>
  This is <size:20>big</size>
end note
@enduml
```

[Ref. QA-5254 for `plain`]

Subscript and Superscript element [sub, sup]

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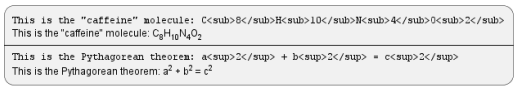
```
:<code>
This is the "caffeine" molecule: C<sub>8</sub>H<su
</code>
This is the "caffeine" molecule: C<sub>8</sub>H<su
----
<code>
This is the Pythagorean theorem: a<sup>2</sup> + b
</code>
This is the Pythagorean theorem: a<sup>2</sup> + b
@enduml
```

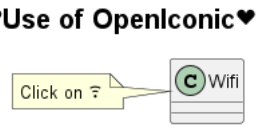


OpenIconic

OpenIconic is a very nice open-source icon set. Those icons are integrated in the creole parser, so you can use them out-of-the-box.

Use the following syntax: `<&ICON_NAME>` .

```
@startuml
title: <size:20><&heart>Use of OpenIconic<&heart>
class Wifi
note left
  Click on <&wifi>
end note
@enduml
```



The complete list is available with the following special command:

```
@startuml
listopeniconic
@enduml
```

Appendix: Examples of "Creole List" on all diagrams

Activity

Class

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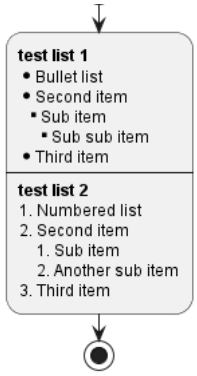
```
start
:**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item;
stop
@enduml
```



Class

FIXME

- *Sub item*
- *Sub sub item*

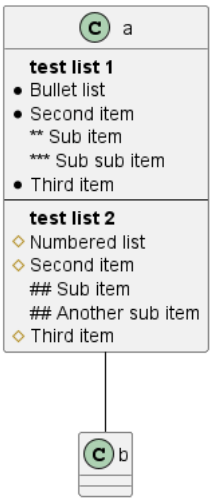
FIXME

```
@startuml

class a {
**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item
}

a -- b

@enduml
```



Component, Deployment, Use-Case

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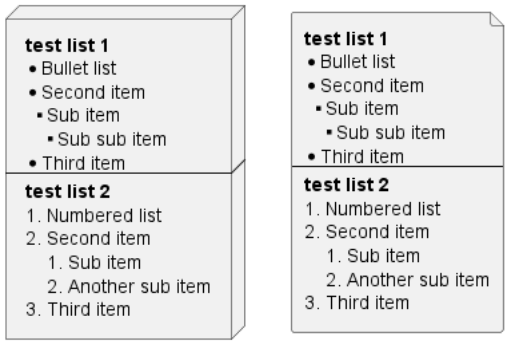
```
node n [
**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item
]

file f as "
**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item
"
@enduml
```



DONE *[Corrected in V1.2020.18]*

Gantt project planning

N/A

Object

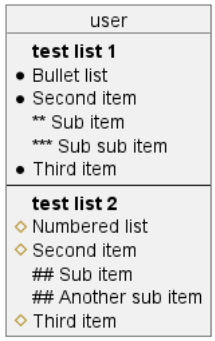
FIXME

- *Sub item*
- *Sub sub item*

FIXME

```
@startuml
object user {
**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item
}

@enduml
```



MindMap

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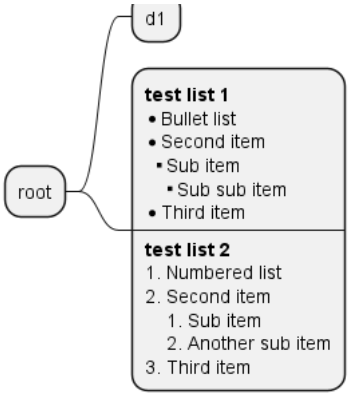
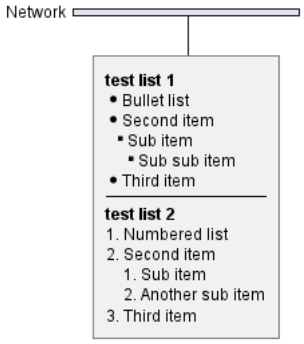
```
* root
** d1
**:**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item;


@endmindmap
```



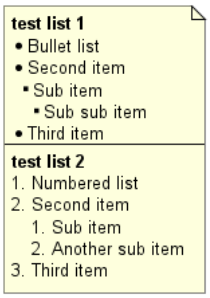
Network (nwdiag)

```
@startuml
nwdiag {
  network Network {
      Server [description="**test list 1**\n* Bul
}
@enduml
```



Note

```
@startuml
note as n
**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item
end note
@enduml
```



Sequence

N/A *(or on note or common commands)*

State

N/A *(or on note or common commands)*

WBS

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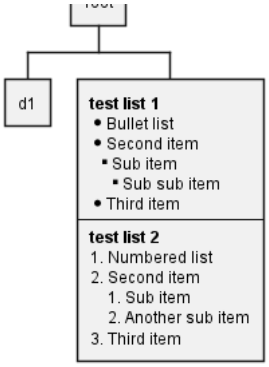
```
* root
** d1
**:**test list 1**
* Bullet list
* Second item
** Sub item
*** Sub sub item
* Third item
----
**test list 2**
# Numbered list
# Second item
## Sub item
## Another sub item
# Third item;

@endwbs
```

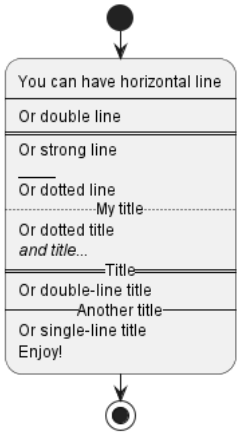


Appendix: Examples of "Creole horizontal lines" on all diagrams

Activity

FIXME strong line ____ FIXME

```
@startuml
start
:You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
Or dotted title
//and title... //
==Title==
Or double-line title
--Another title--
Or single-line title
Enjoy!;
stop
@enduml
```



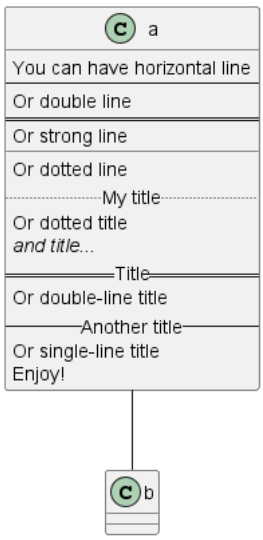
Class

```
@startuml

class a {
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
Or dotted title
//and title... //
==Title==
Or double-line title
--Another title--
Or single-line title
Enjoy!
}

a -- b

@enduml
```



Component, Deployment, Use-Case

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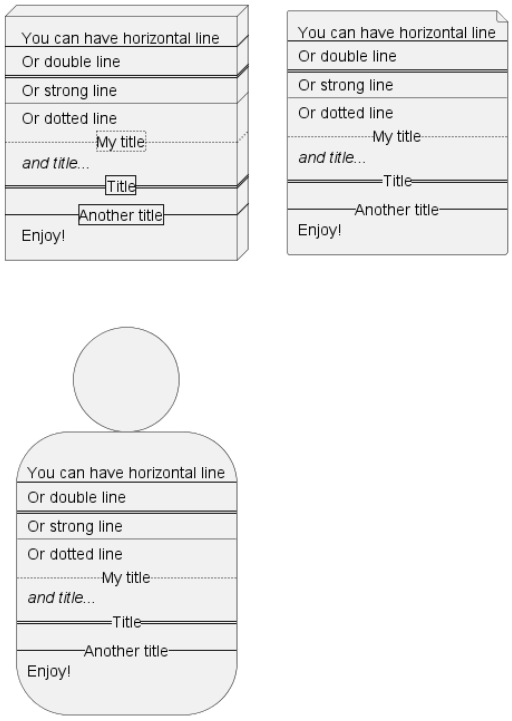
```
node n [
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!
]

file f as "
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!
"

person p [

You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!

]
@enduml
```



Gantt project planning

N/A

Object

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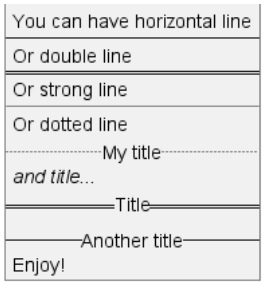
```
object user {
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!
}

@enduml
```



DONE *[Corrected on V1.2020.18]*

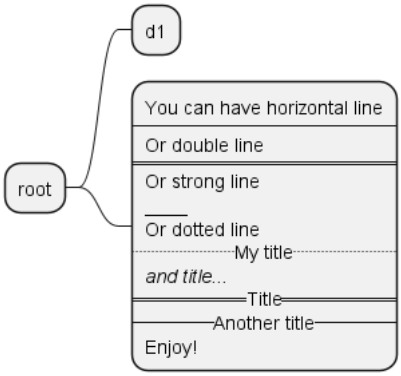
MindMap

FIXME strong line ____ FIXME

```
@startmindmap

* root
** d1
**:You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!;

@endmindmap
```



Network (nwdiag)

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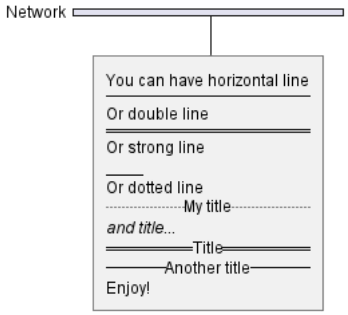
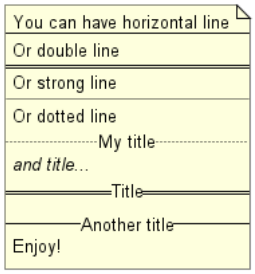
```
nwdiag {
  network Network {
      Server [description="You can have horizonta
}
@enduml
```



Note

```
@startuml
note as n
You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!
end note
@enduml
```



Sequence

N/A *(or on note or common commands)*

State

N/A *(or on note or common commands)*

WBS

FIXME strong line ____ FIXME

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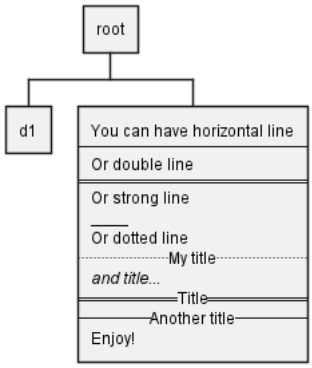
```
* root
** d1
**:You can have horizontal line
----
Or double line
====
Or strong line
____
Or dotted line
..My title..
//and title... //
==Title==
--Another title--
Enjoy!;

@endwbs
```



Style equivalent (between Creole and HTML)

Style	Creole	Legacy HTML like
bold	This is `**bold**`	This is `<b>bold</b>`
italics	This is `//italics//`	This is `<i>italics</i>`
monospaced	This is `""monospaced""`	This is `<font:monospaced>monospaced</font>`
~~stroked~~	This is `--stroked--`	This is `<s>stroked</s>`
underlined	This is `__underlined__`	This is `<u>underlined</u>`
waved	This is `~~waved~~`	This is `<w>waved</w>`

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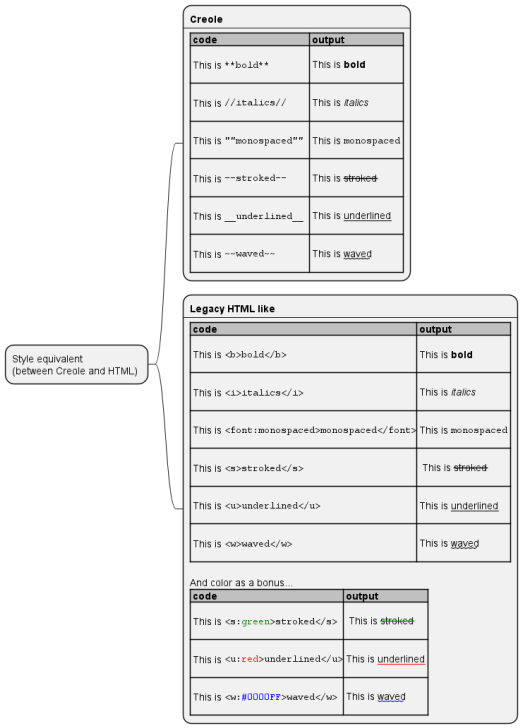
```
* Style equivalent\n(between Creole and HTML)
**:**Creole**
----
<#silver>|= code|= output|
| \n This is ""~**bold**""\n | \n This is **bold*
| \n This is ""~//italics//""\n | \n This is //ita
| \n This is ""~""monospaced~"" ""\n | \n This is
| \n This is ""~--stroked--""\n | \n This is --str
| \n This is ""~__underlined__""\n |  \n This is
| \n This is ""<U+007E><U+007E>waved<U+007E><U+007
**:<b>Legacy HTML like
----
<#silver>|= code|= output|
| \n This is ""~<b>bold</b>""\n | \n This is <b>b
| \n This is ""~<i>italics</i>""\n | \n This is <
| \n This is ""~<font:monospaced>monospaced</font
| \n This is ""~<s>stroked</s>""\n | \n  This is
| \n This is ""~<u>underlined</u>""\n | \n This is
| \n This is ""~<w>waved</w>""\n | \n This is <w>
And color as a bonus...
<#silver>|= code|= output|
| \n This is ""~<s:""<color:green>""green""</colo
| \n This is ""~<u:""<color:red>""red""</color>""
| \n This is ""~<w:""<color:#0000FF>""#0000FF""</
@endmindmap
```