

plantuml-babel.org

Derek Feichtinger

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Contents

1	Links	1
2	Information on the local installation	2
2.1	Help text	3
3	simple test	3
4	TODO using SVG graphic	3
5	sequence diagrams	4
6	old style activity diagrams	7
7	new style activity diagrams	9
7.1	swimlanes	9
8	Class diagram	9
9	skinparam	10
9.1	Gradients	10
10	Scaling	11
11	Mindmaps	11

1 Links

- Homepage: <http://plantuml.com/>

- Downloads: <http://plantuml.sourceforge.net/>
- Source code: <https://github.com/plantuml/plantuml>
- Language Reference: http://plantuml.com/PlantUML_Language_Reference_Guide.pdf

2 Information on the local installation

Emacs version: GNU Emacs 26.2 (build 2, x86_64-pc-linux-gnu, GTK+ Version 3.22.30)
of 2019-04-14
org version: 9.2.4

Emacs variable org-plantuml-jar-path:/home/dfeich/.emacs.d/javalib/plantuml.jar

PlantUML version 1.2019.08 (Sat Jul 13 21:25:14 CEST 2019)
(GPL source distribution)
Java Runtime: OpenJDK Runtime Environment
JVM: OpenJDK 64-Bit Server VM
Java Version: 1.8.0_212-8u212-b03-0ubuntu1.18.04.1-b03
Operating System: Linux
OS Version: 4.15.0-54-generic
Default Encoding: UTF-8
Language: en
Country: US
Machine: dflt2w
PLANTUML_LIMIT_SIZE: 4096
Processors: 4
Max Memory: 4,649,385,984
Total Memory: 313,524,224
Free Memory: 306,981,080
Used Memory: 6,543,144
Thread Active Count: 1

The environment variable GRAPHVIZ_DOT has not been set
Dot executable is /opt/anaconda/python3.6/bin/dot
Dot version: dot - graphviz version 2.40.1 (20161225.0304)
Installation seems OK. File generation OK

PlantUML version 1.2019.08 (Sat Jul 13 21:25:14 CEST 2019)

Last available version for download : 1201908

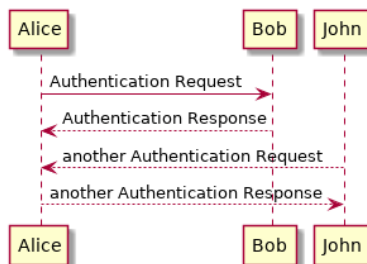
Your version is up to date.

2.1 Help text

```
java -jar "$jpath" -help
```

3 simple test

```
@startuml
' this is a comment
Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response
John --> Alice: another Authentication Request
Alice --> John: another Authentication Response
@enduml
```



4 TODO using SVG graphic

The *svg* package uses inkscape to separate the text and graphical elements of the SVG into a Tex file (*.pdf_{tex}) and a PDF file containing the graph elements. E.g. *svg-sequence1.svg* into *svg-sequence1.pdf_{tex}* and *svg-sequence1.pdf*.

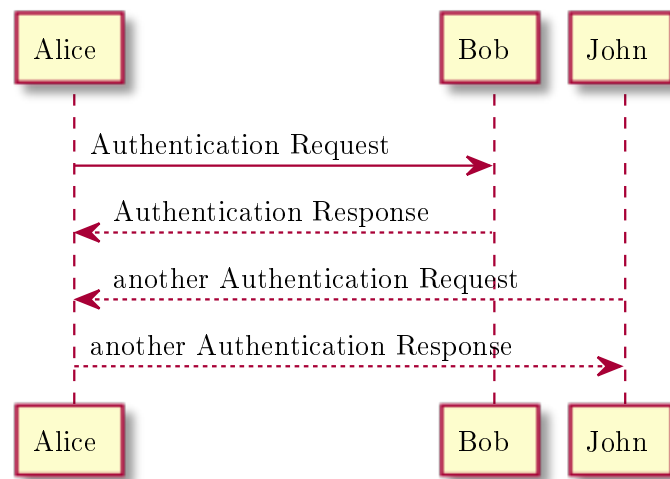
Currently, SVG pictures can only be rendered correctly, **if the picture is in the same directory** as the tex source file (and therefore also the org source file).

Note: with the current org version 9.1.14 and Emacs 26.1 the SVG is not correctly displayed in the org buffer, but the SVG renders fine in the exported Latex PDF.

```

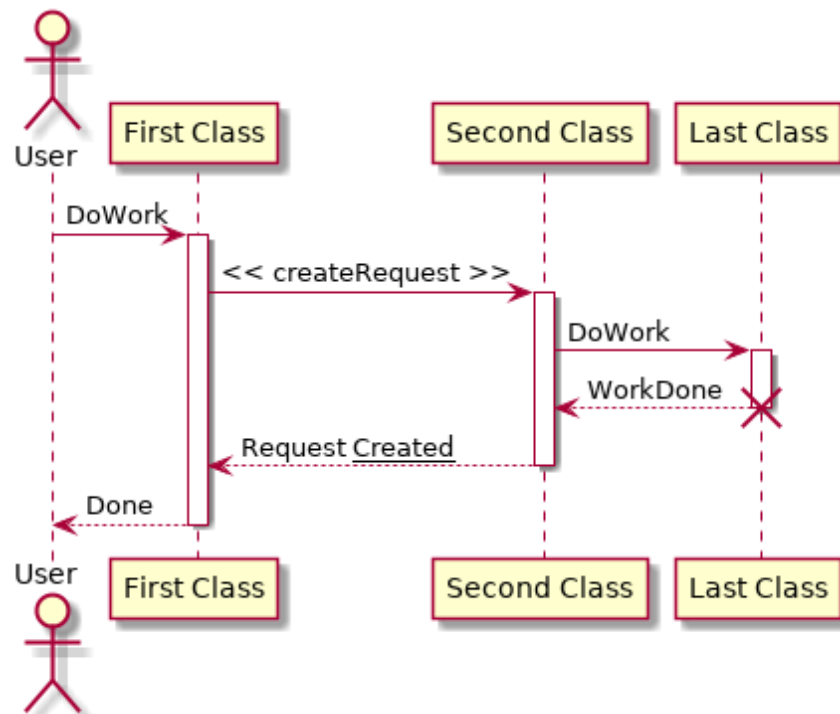
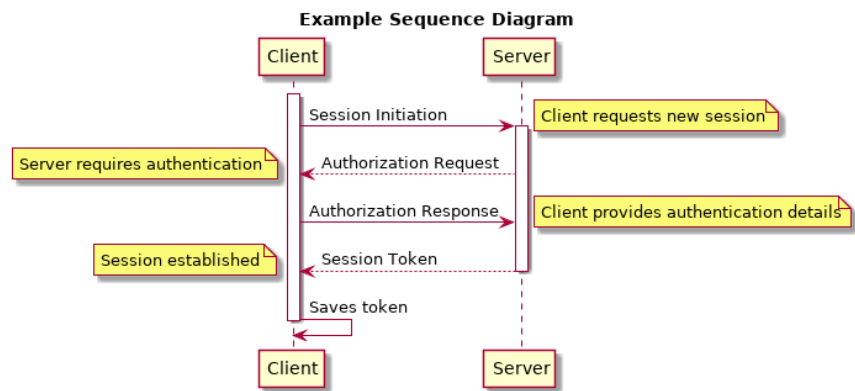
@startuml
' this is a comment
Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response
John --> Alice: another Authentication Request
Alice --> John: another Authentication Response
@enduml

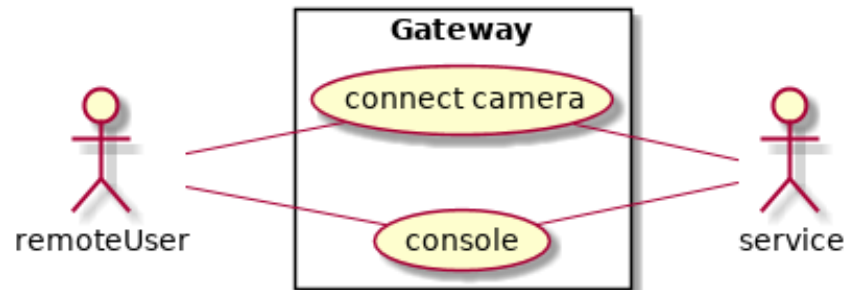
```



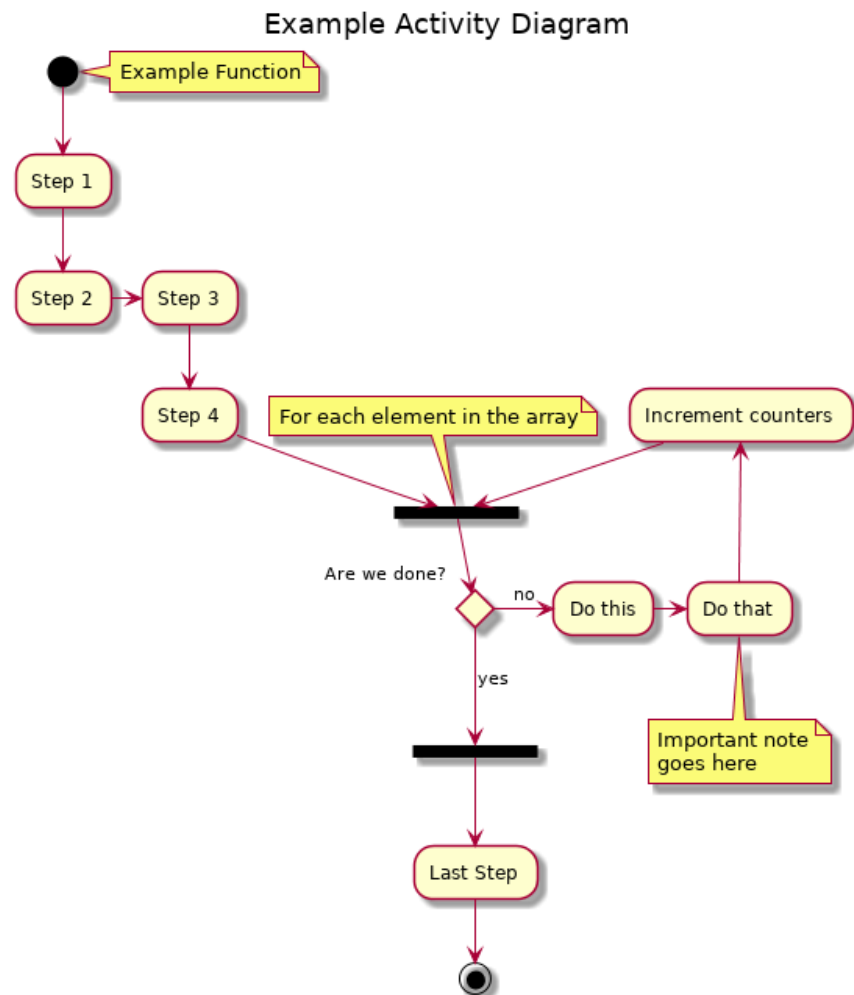
5 sequence diagrams

Note: The `skin` parameter I used in the earlier versions of this document is no longer supported by plantuml.

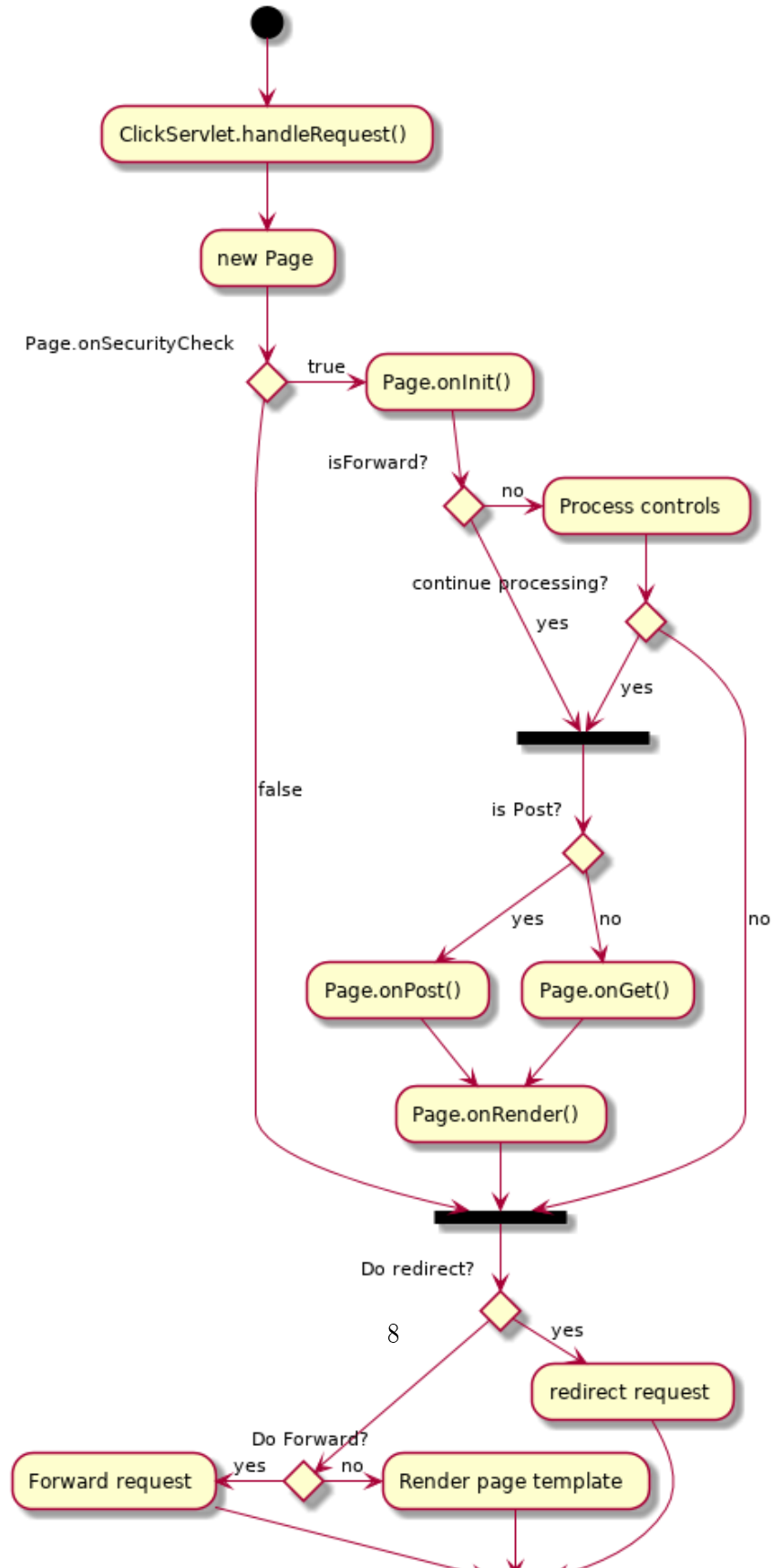




6 old style activity diagrams



Servlet Container

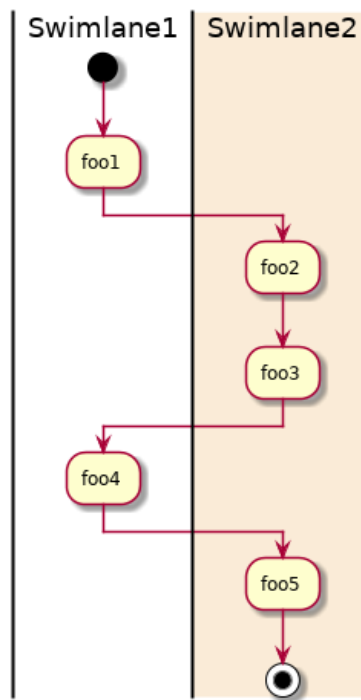


7 new style activity diagrams

- <http://plantuml.sourceforge.net/activity2.html>

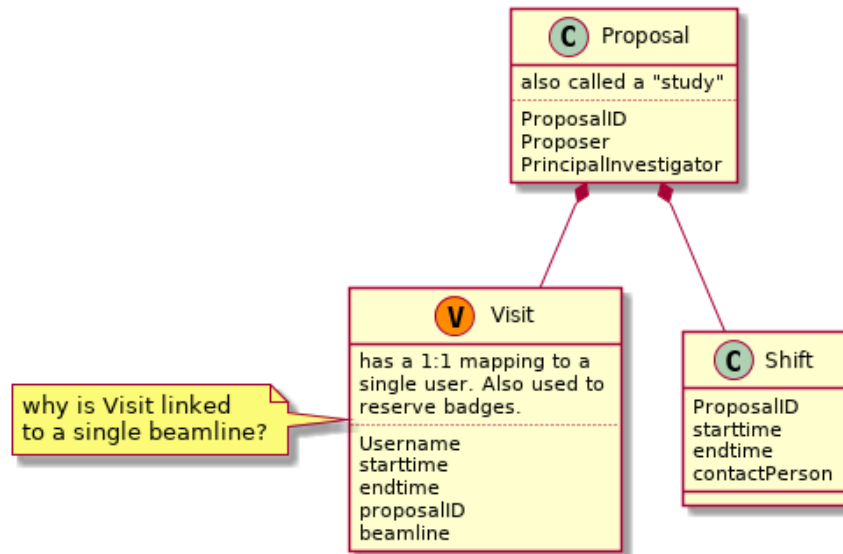
7.1 swimlanes

Swimlanes actually are activity diagrams using the new syntax.



8 Class diagram

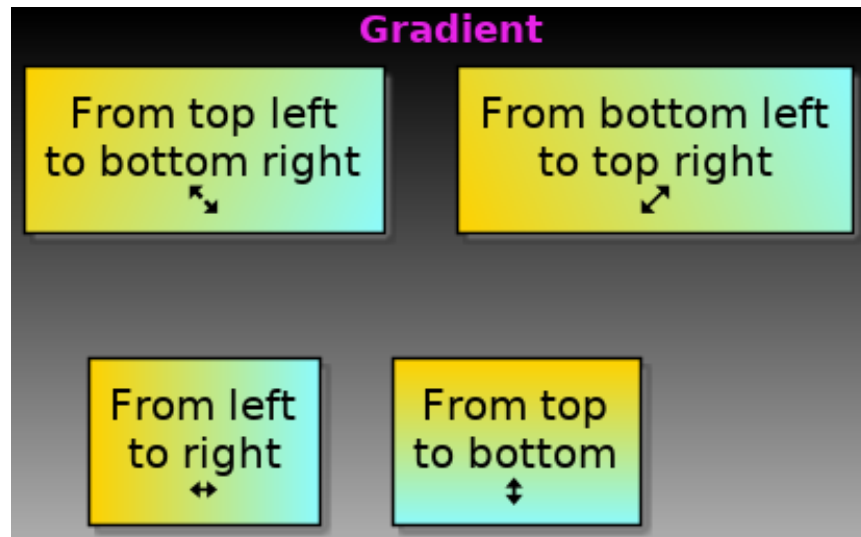
<http://plantuml.sourceforge.net/classes.html>



9 skinparam

9.1 Gradients

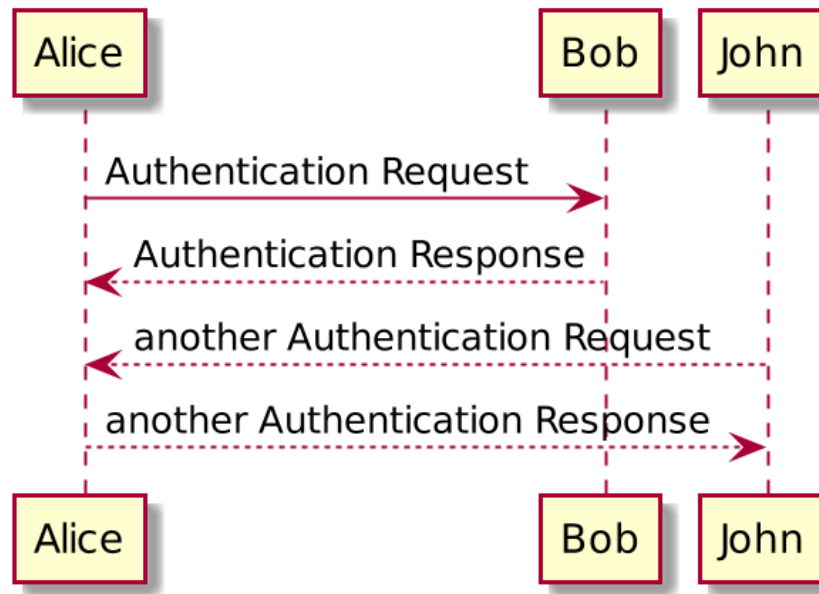
Minimally adapted from <https://blog.jdriven.com/2017/10/plantuml-pleasantness-use-gradients>



10 Scaling

```
@startuml
scale 2

Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response
John --> Alice: another Authentication Request
Alice --> John: another Authentication Response
@enduml
```



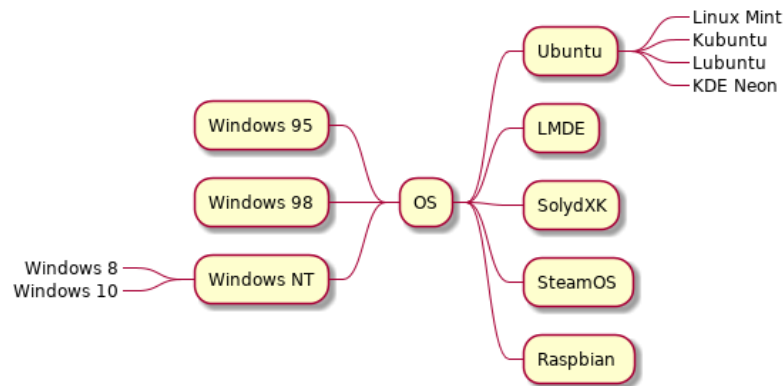
11 Mindmaps

- 2019-07-21 Sun Needs plantuml-1.2019.08 or newer. Still in testing and features may change
- <http://plantuml.com/mindmap-diagram>
- Nice Link about mindmaps in PlantUML: <http://hangaroundtheweb.com/2019/07/mind-maps-in-spacemacs/>

This syntax looks like the most versatile and useful to me

- Leading "+/-" specify hierarchy level and whether the node is on the right or left of the central node.
- Underscores directly following the leading position characters prevent the creation of a box around an item.

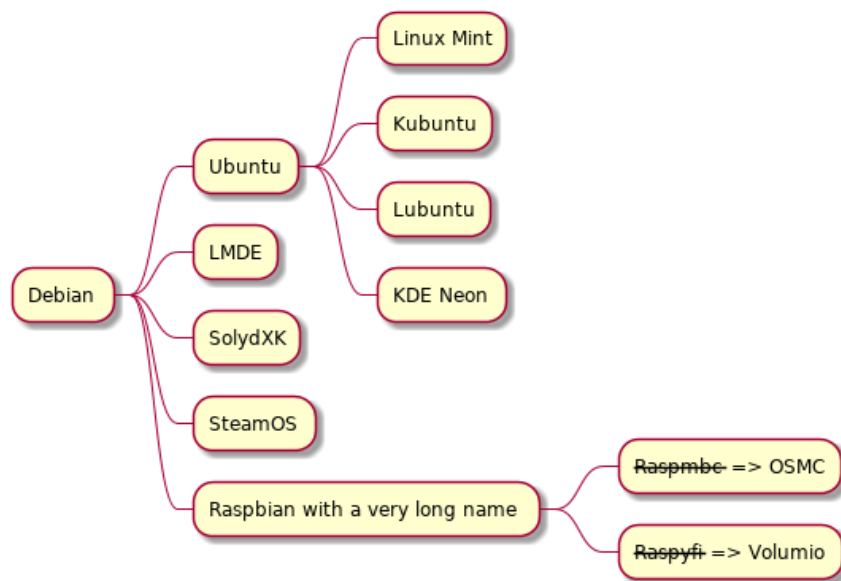
```
@startmindmap
+ OS
++ Ubuntu
+++_ Linux Mint
+++_ Kubuntu
+++_ Lubuntu
+++_ KDE Neon
++ LMDE
++ SolydXK
++ SteamOS
++ Raspbian
-- Windows 95
-- Windows 98
-- Windows NT
---_ Windows 8
---_ Windows 10
@endmindmap
```



A mindmap based on org mode syntax. Note that the org headline asterisks need to be escaped by "\", inside of a source block. It's nice that they allow for an org mode syntax, but I think this is less convenient to

write and work with. The org headlines do not allow for text following them (syntax error).

```
@startmindmap
* Debian
** Ubuntu
*** Linux Mint
*** Kubuntu
*** Lubuntu
*** KDE Neon
** LMDE
** SolydXK
** SteamOS
** Raspbian with a very long name
*** <s>Raspmbc</s> => OSMC
*** <s>Raspyfi</s> => Volumio
@endmindmap
```



```
@startmindmap
caption figure 1
title My super title
```

```

* <&flag>Debian
** <&globe>Ubuntu
*** Linux Mint
*** Kubuntu
*** Lubuntu
*** KDE Neon
** <&graph>LMDE
** <&pulse>SolydXX
** <&people>SteamOS
** <&star>Raspbian with a very long name
*** <s>Raspmbc</s> => OSMC
*** <s>Raspyfi</s> => Volumio

```

```

header
My super header
endheader

```

```

center footer My super footer

```

```

legend right
  Short
  legend
endlegend
@endmindmap

```



figure 1
My super footer