ppp Documentation

Daniel Bruder

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1 Abstract

ppp allows you to use pandoc in new ways by rendering ASCII-markup to beautiful pictures right from within pandoc's verbatim environments.

See below for illustrative examples and detailed usage instructions.

Bonus on top: Leaving out ppp form the typesetting pipeline will still render your document and the verbatims with the ASCII-markup will still stay readable!

2 General usage

In each case, you will use pandoc's verbatim environment, set the rendering engine and additional options:

2.1 General Renderers

The renderers available to ppp are:

- ditaa
- yuml diagrams:
 - class diagramas (cf. Figure 5)
 - usecase diagramas (cf. Figure 6)
 - activity diagrams (cf. Figure 7)
- dot
- neato
- rdfdot

2.2 General Options

This is a list of the general options, compatible with any type of renderer:

- .scale=90%
- .label=fig:my-figure
- .title="Some label for the figure"

3 ditaa Diagrams

In order to generate ditaa-diagrams, ditaa needs to be installed.

For an exhaustive list of options and possibilities, please check the ditaa homepage.

3.1 ditaa Options

Apart from the General Options, the possible options specific to ditaa are:

- .rounded-corners
- · .no-shadows
- .no-antialias
- .no-separation

3.2 ditaa Examples

Using ditaa, the following markup will produce Figure 1.

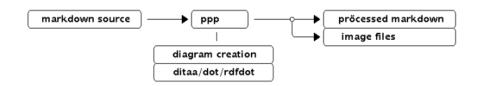
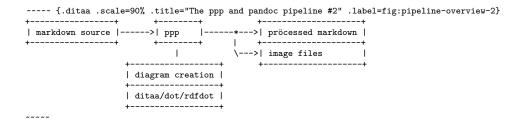


Figure 1: "The ppp and pandoc pipeline"

As a contrast, turning off several options, dita a will produce an output as in Figure 2:



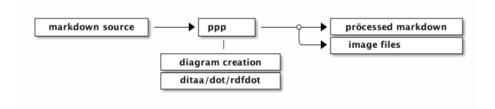


Figure 2: "The ppp and pandoc pipeline #2"

4 dot Diagrams

dot rendering is done through GraphViz's engine. Please cf. Graphviz's Documentation for exact usage specifics on the usage of dot.

4.1 dot Options

• currently none apart from the General Options

4.2 dot Examples

With dot as the *renderer*, the following markup produces the figure as seen in Figure 3.

```
----- {.dot .scale=50% .title=dot Finite State Automaton .label=fig:dot-fsa}
digraph finite_state_machine {
    rankdir=LR;
    size="8.5"
    node [shape = doublecircle]; LR_0 LR_3 LR_4 LR_8;
    node [shape = circle];
    LR_0 -> LR_2 [ label = "SS(B)" ];
    LR_1 -> LR_3 [ label = "SS(S)" ];
    LR_1 -> LR_3 [ label = "SS(S)" ];
    LR_2 -> LR_6 [ label = "SS(b)" ];
    LR_2 -> LR_5 [ label = "SS(b)" ];
    LR_2 -> LR_5 [ label = "SS(A)" ];
    LR_5 -> LR_7 [ label = "S(A)" ];
    LR_6 -> LR_5 [ label = "S(b)" ];
    LR_6 -> LR_6 [ label = "S(b)" ];
    LR_6 -> LR_6 [ label = "S(b)" ];
    LR_7 -> LR_8 [ label = "S(b)" ];
    LR_7 -> LR_8 [ label = "S(b)" ];
    LR_7 -> LR_6 [ label = "S(a)" ];
    LR_8 -> LR_6 [ label = "S(a)" ];
}
```

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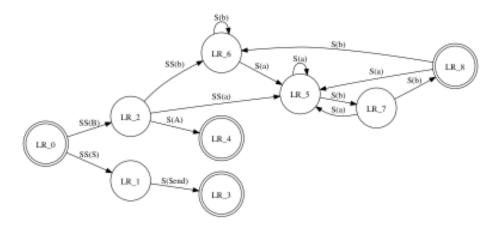


Figure 3: dot Finite State Automaton

5 neato Diagrams

neato diagrams behave very similarly to dot Diagrams. Please cf dot Diagrams for more information

5.1 neato Options

• same as dot Options

5.2 neato Examples

The following example produces Figure 4.

```
----- {.neato .scale=50% .title=neato diagram .label=fig:neato-diagram} graph G {
    n0 -- n1 -- n2 -- n3 -- n0;
}
```

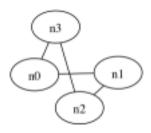


Figure 4: neato diagram

6 yUML

yUML needs a network connection and uses http://yuml.me as the rendering service.

6.1 yUML Options

Options specific to yUML can be:

- .type=: any of [class, activity, usecase].style=: any of [scruffy, boring, plain]
- .direction=: any of [LR, RL, TD,]

6.2 yUML Examples

6.2.1 yUML Class diagrams

With yUML as the renderer, setting .type=class and using the style .style=boring, the following markup produces Figure 5.

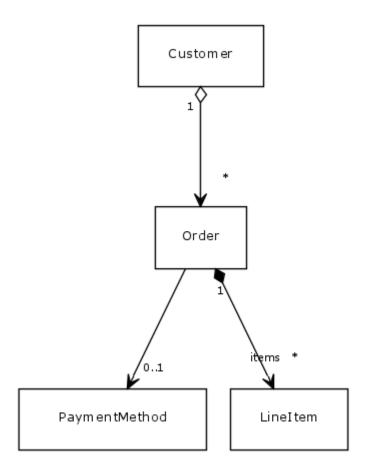


Figure 5: yUML class diagram

6.2.2 yuml Usecase diagrams

With scruffy style and .type=usecase, the following example produces Figure 6.

```
---- {.yuml .style=scruffy .type=usecase .title=yUML usecase diagram .label=fig:yuml-usecase-diagram}
// Cool Use Case Diagram
[Customer]-(Make Cup of Tea)
(Make Cup of Tea)<(Add Milk)
(Make Cup of Tea)>(Add Tea Bag)
```

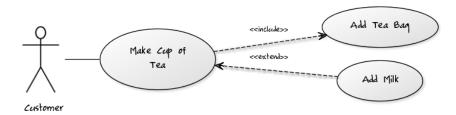


Figure 6: yUML usecase diagram

6.2.3 yuml Activity diagrams

Lastly, using .type=activity and .style=plain the following example produces Figure 7.

---- {.yuml .style=plain .type=activity .title=yUML activity Diagram .label=fig:yuml-activity-diagram} (start)->|a|,|a|->(Make Coffee)->|b|,|a|->(Make Breakfast)->|b|,|b|-><c>[want more coffee]->(Make Coffee),<c>[satisfied]->(end)

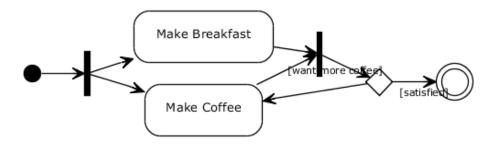


Figure 7: yUML activity Diagram

7 rdfdot Diagrams

7.1 rdfdot Options

• currently none apart from the General Options

7.2 rdfdot Examples

The following example produces Figure 8 on page 12.

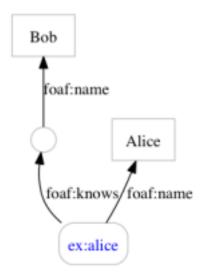


Figure 8: rdfdot Diagram

8 List of options

Renderer	Option	possible values
General	.scale	1%-99%
	.label	fig:my-figure
	.title	"Some label for the figure"
ditaa	.rounded-corners	
	.no-shadows	
	.no-antialias	
	.no-separation	
dot	N/A	
neato	N/A	
yUML	.type=	<pre>any of [class, activity, usecase]</pre>
	.style=	<pre>any of [scruffy, boring, plain]</pre>
	.direction=	any of [LR , RL , TD ,]
rdfdot	N/A	

Table 1: List of options

9 List of homepages and documentation to renderers

Renderer	Links
ppp	(this document)
	https://metacpan.org/release/App-pandoc-preprocess
	https://github.com/xdbr/p5-App-pandoc-preprocess
ditaa	http://ditaa.sourceforge.net/
dot	http://www.graphviz.org/
neato	http://www.graphviz.org/
yUML	http://yuml.me/
	https://github.com/wandernauta/yuml
rdfdot	https://metacpan.org/pod/RDF::Trine::Exporter::GraphViz

Table 2: List of options

10 Credits and further references

- http://www.asciiflow.com/#Draw: an excellent helper for all things diagram
- http://randomdeterminism.wordpress.com/2012/06/01/how-i-stopped-worring-and-started-using-markdomgeneral introduction to another approach to typesetting and using gpp
- $\bullet~$ https://github.com/nichtich/ditaa-markdown: This is where the original idea came from
- gpp: http://files.nothingisreal.com/software/gpp/gpp.html

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