Use with knitr

Register the plantuml knitr engine

The plantuml knitr engine plantuml_knit_engine() needs to be registered with knitr. The easiest is to use the helper function plantuml_knit_engine_register in the setup code chunk. It is important to load the package plantuml before, as some options need to be set.

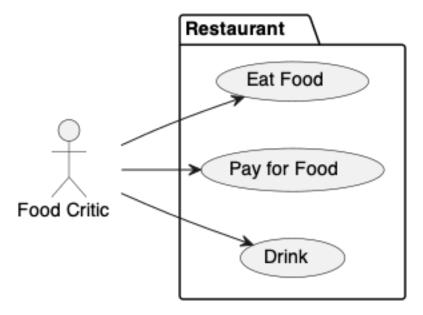
library(plantuml)

PlantUML Code Chunk Options

The following options are available, in addition to the standard options: - plantuml_format: the format of the resulting file. At the moment, png (the default), svg, and eps are implemented. - plantuml.path: the path at which the resulting graphs should be saved. If the directory does not exist, it will be created. - plantuml.preview: if the graph should be shown as an inline preview in the Rmarkdown document in Rstudio. This option results in generating the image twice, which may lead to a substantial increase of the processing time. The preview is always a vector preview, irrespective of the file plantuml_format

A simple chart as png

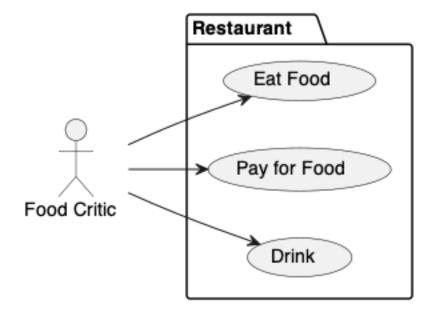
A png grph is nice, because it can be shown in all kinds of documents, in=cluding html, pdf and docx. But it is a bitmap format, i.e. when scaling in the grapoh becomes pixelated.



A simple chart as png and with code

```
left to right direction
actor "Food Critic" as fc
package Restaurant {
```

```
usecase "Eat Food" as UC1
usecase "Pay for Food" as UC2
usecase "Drink" as UC3
}
fc --> UC1
fc --> UC2
fc --> UC3
```



A simple chart using format auto with code

When specifying plantuml.format = "auto" the appropriate vector format is chosen for the output format:

- pdf output format: pdf as plantuml.format
- html output format: svg as plantuml.format
- docx output format: pdf as plantuml.format

Therefore, the optimal vector format is choden for the output format.

```
robust "DNS Resolver" as DNS
robust "Web Browser" as WB
concise "Web User" as WU

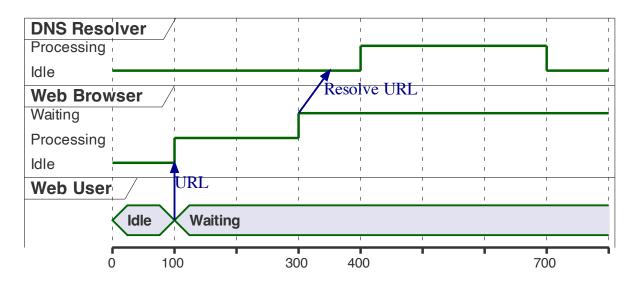
@0

WU is Idle
WB is Idle
DNS is Idle

@+100
WU -> WB : URL
WU is Waiting
WB is Processing

@+200
WB is Waiting
WB -> DNS@+50 : Resolve URL
```

@+100
DNS is Processing
@+300
DNS is Idle



Now only the code

0startum1

Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response

Alice -> Bob: Another authentication Request Alice <-- Bob: Another authentication Response

@enduml

And now as ASCII Art

This does not play nicely with LaTeX and therefore pdf due to unicode characters used. I have no idea at the moment how to make this nicer.

@startuml

Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response

Alice -> Bob: Another authentication Request Alice <-- Bob: Another authentication Response

@enduml

Alice Bob

Authentication Request

	>	
Authenticat	cion Response	
<		
Another authent	cication Request	
	>	
Another authent	cication Response	
<		
Alice	Bob	