plantuml-babel.org

Derek Feichtinger

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Contents

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 26.1 (build 1, x86_64-pc-linux-gnu, GTK+ Version 3.22.30)
 of 2018-11-13
org version: 9.1.14

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


PlantUML version 1.2019.00 (Sun Jan 13 16:46:42 CET 2019)
(GPL source distribution)
Java Runtime: OpenJDK Runtime Environment
JVM: OpenJDK 64-Bit Server VM
Java Version: 1.8.0_191-8u191-b12-0ubuntu0.18.04.1-b12
Operating System: Linux
OS Version: 4.15.0-43-generic
Default Encoding: UTF-8
Language: en
Country: US
Machine: dflt2w
PLANTUML_LIMIT_SIZE: 4096
Processors: 4
Max Memory: 4,651,483,136
Total Memory: 313,524,224
Free Memory: 306,980,040
Used Memory: 6,544,184
Thread Active Count: 1


The environment variable GRAPHVIZ_DOT has not been set
Dot executable is /usr/bin/dot
Dot version: dot - graphviz version 2.40.1 (20161225.0304)
Installation seems OK. File generation OK
-------------------------
PlantUML version 1.2019.00 (Sun Jan 13 16:46:42 CET 2019)

Last available version for download : 1201900
```
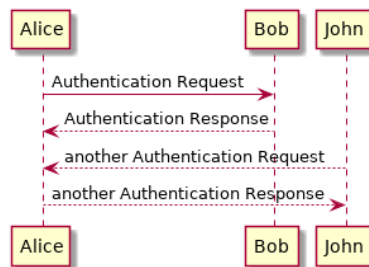
```
Your version is up to date.
```

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 containig 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).
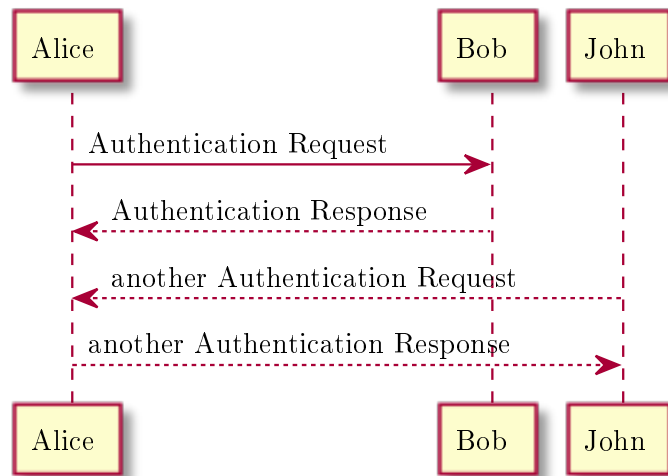
Note: with the current org version 9.1.14 and Emacs 26.1 the SVG is not correctly displayed in the org buffer, but the SVG renders fine in the exported Latex PDF.
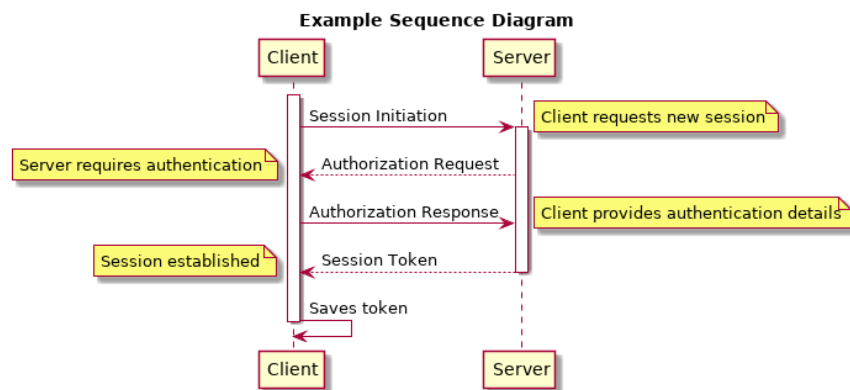
```
@startuml
' this is a comment
```

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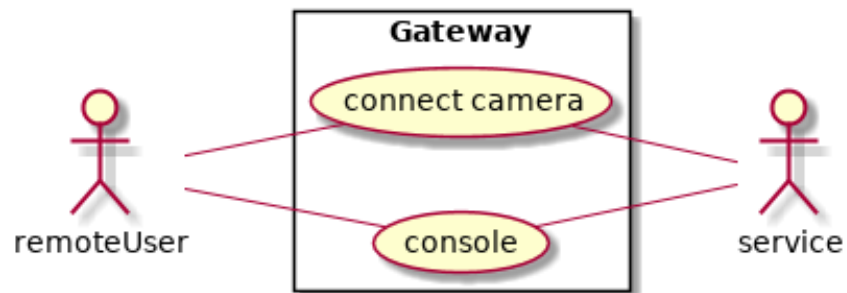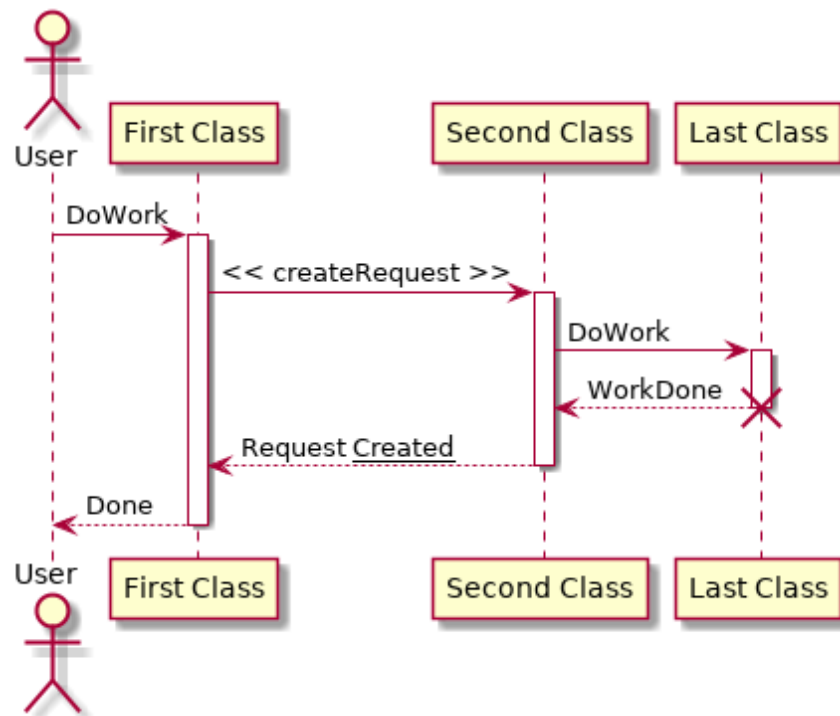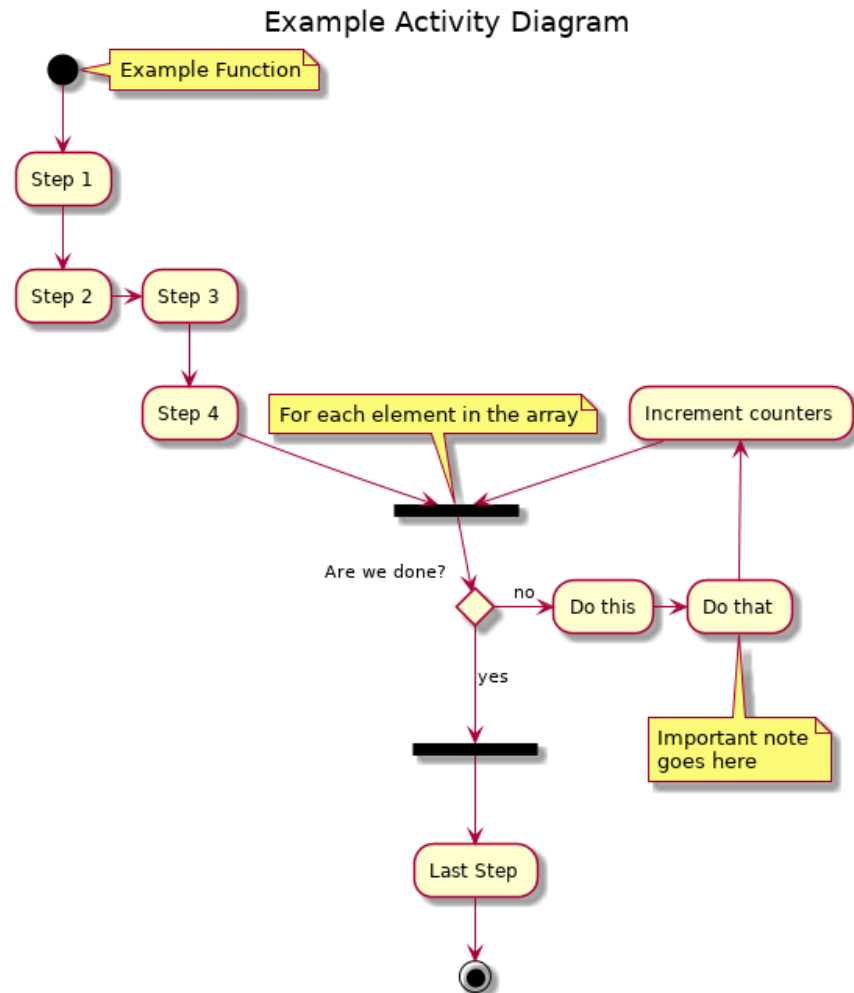

5   sequence diagrams

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

User

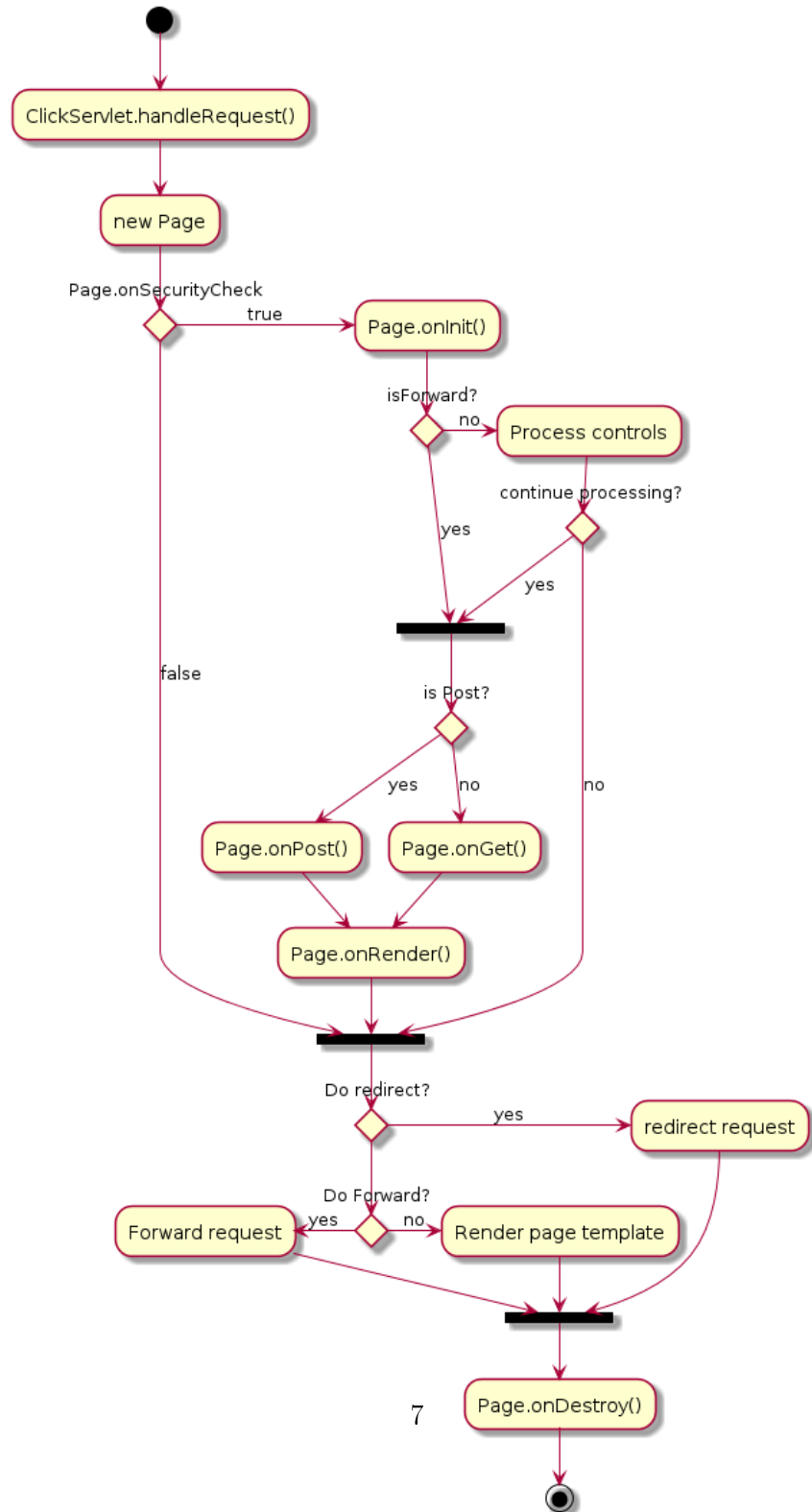First Class   Second Class   Last Class

DoWork

<< createRequest >>

DoWork

WorkDone

Request Created

Done

User

First Class   Second Class   Last Class

Gateway

connect camera

console

remoteUser   service

6 old style activity diagrams

Example Activity Diagram

Servlet Container

- ClickServlet.handleRequest()
- new Page
- Page.onSecurityCheck
  - true → Page.onInit()
  - false
- isForward?
  - no → Process controls
  - yes
- continue processing?
  - yes
  - no
- is Post?
  - yes → Page.onPost()
  - no → Page.onGet()
- Page.onRender()
- Do redirect?
  - yes → redirect request
- Do Forward?
  - yes → Forward request
  - no → Render page template
- Page.onDestroy()

7

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
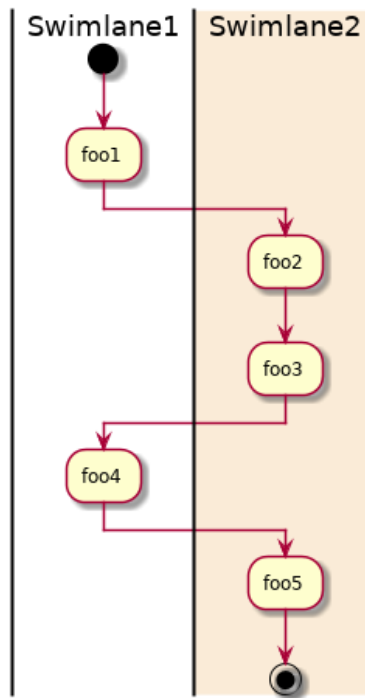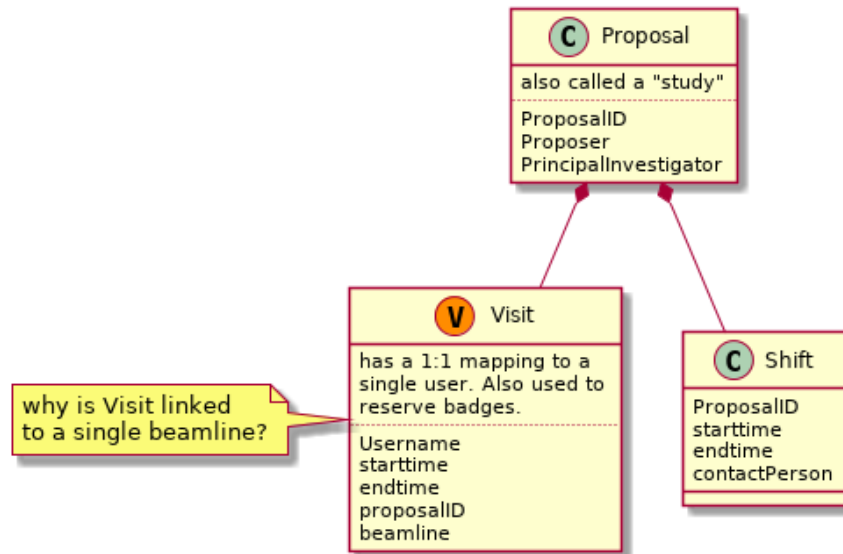
9   skinparam

9.1   Gradients

Minimally adapted from https://blog.jdriven.com/2017/10/plantuml-pleasantness-use-gradien
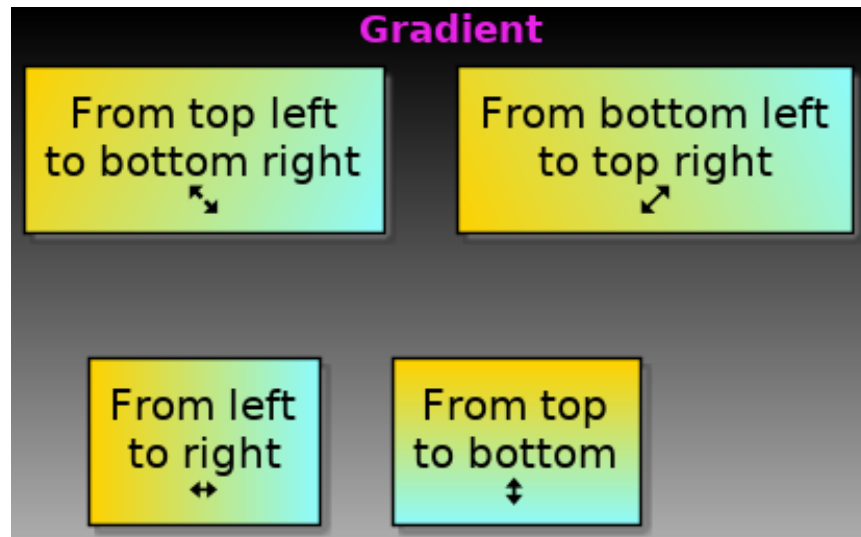
10 Scaling

```
@startuml
scale 2

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