ultimate PlantUML Cheatsheet
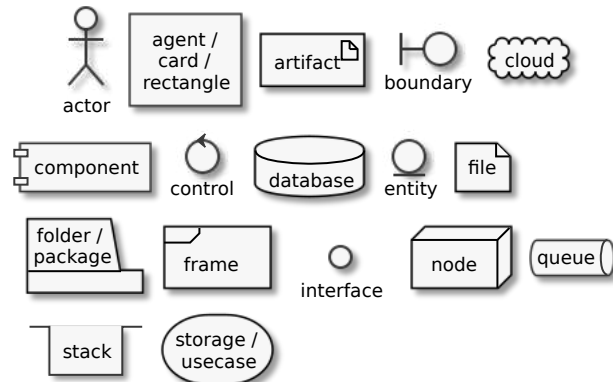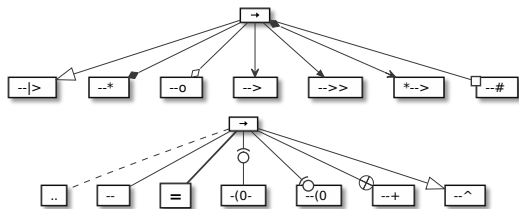by Andreas Offenhaeuser

Components

A list of plantUML components and their names, most can be used in any diagrams. The *sequence* diagram only supports a subset.
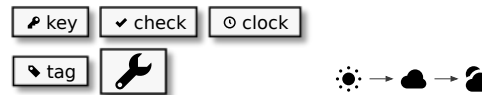

Arrows

PlantUML supports almost all UML arrow types. All combinations of two arrow heads and line type can be set.

Icons

PlantUML supports Open Iconic set out of the box. Any icon can be rendered when embedding it in **<&..>**.

```
card "<&key> key"
card "<size:42><&wrench></size>"
```
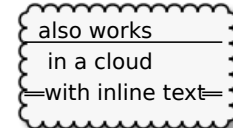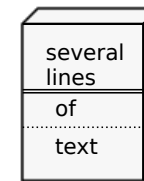

Icons can be shown as icon only by disabling the border and background styles.

```
rectangle "<size:150><&sun></size>" as sun
skinparam rectangleBorderColor none
skinparam rectangleBackgroundColor none
skinparam rectangleShadowing false
```

Sprite icons

Additional icons can be added via sprites. There is a collection of Font Awesome, Developer, Government,.. icons available via GitHub. Sprites can be included from any location that is reachable by the PlantUML server.

```
!define ICONURL https://raw.githubusercontent.com/tupadr3/
plantuml-icon-font-sprites/v2.0.0
!includeurl ICONURL/common.puml
!includeurl ICONURL/font-awesome-5/cogs.puml
!includeurl ICONURL/govicons/submarine.puml

FA5_COGS(c1, work) #white
GOV_SUBMARINE(sub1, Submarine1) #lightblue
GOV_SUBMARINE(sub2, , frame, red) {
  FA5_COGS(c2, more work, card, white)
  #limegreen

}
```


Multiline components

Text can be spread across multiple lines in components by declaring the text in **[ ]**.

```
node mynode [
   several
   lines
   ====
   of
   ....
   text
]
```


Skinparam properties

For any *component* style properties can be set via

```
skinparam <Component><Property> <value>
```

Multiple properties for the same component can be grouped

```
skinparam node {
   BackgroundColor transparent
   BorderColor black
}
```

Component properties:
  BackgroundColor, BorderColor, BorderThickness, FontColor, FontName, FontSize, FontStyle

Generic properties:
  ArrowColor, ArrowLollipopColor, ArrowThickness, BackgroundColor, DefaultTextAlignment ([left], center, right), Handwritten [false], HyperlinkColor, HyperlinkUnderline, Monochrome [false], Nodesep (horizontal margin [0]), Padding (text padding within node [0]), Ranksep (vertical margin [0]), RoundCorner, Shadowing

The full list of skinparam settings and available colors can be found on the plantUML website.

Component diagrams

Enforcing layout..

Useful links

- Available colors

- Stylable properties