ultimate PlantUML Cheatsheet
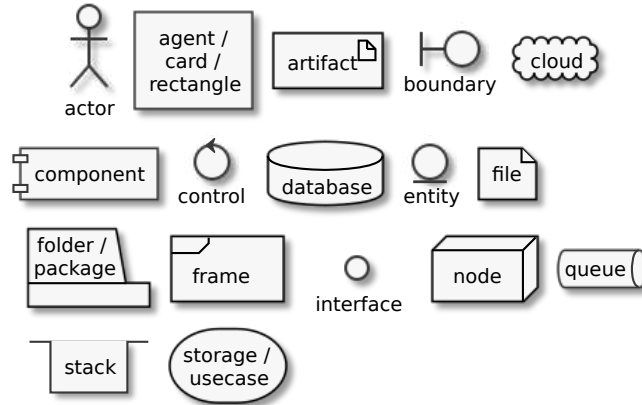v.COMMIT-ID

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.
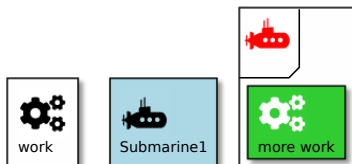
actor — agent / card / rectangle — artifact — boundary — cloud

component — control — database — entity — file

folder / package — frame — interface — node — queue

stack — storage / usecase

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
}
```

work — Submarine1 — more work

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>"
```

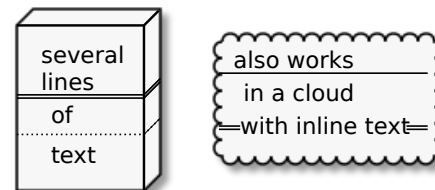key — check — clock — tag

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
```
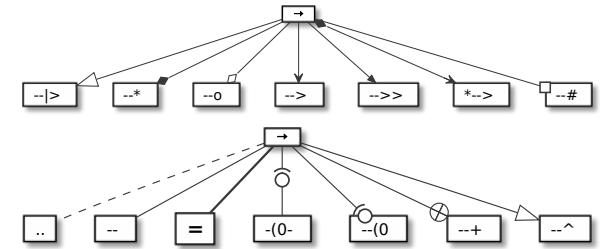
Multiline components

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

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

several lines of text — also works in a cloud with inline text

Arrows

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

--|> — --* — --o — --> — -->> — *--> — --#

.. — -- — = — -(0- — -(0 — --+ — --^

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