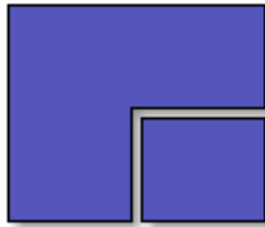


1. Dittaa

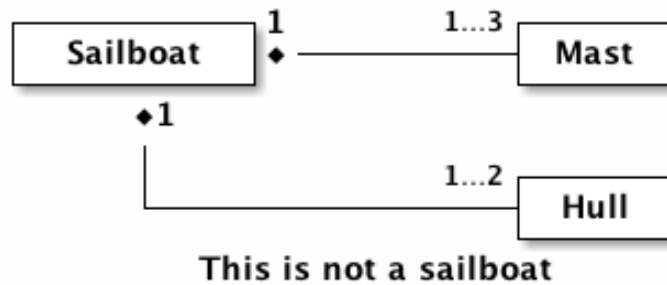
ID: org_gcr_2017-05-13_mara:1F041707-87E7-4490-8F29-996C02CAE757

When a drop of water joins the ocean it becomes the ocean.

```
+-----+
| cBLU  |
|       |
|   +---+
|   |cBLU|
|   |   |
+---+---+
```



```
+-----+1      1...3+-----+
| Sailboat +-----+ Mast |
+-----+-----+ +-----+
      1
      |
      |      1...2+-----+
+-----+-----+ Hull |
      +-----+
This is not a sailboat
```

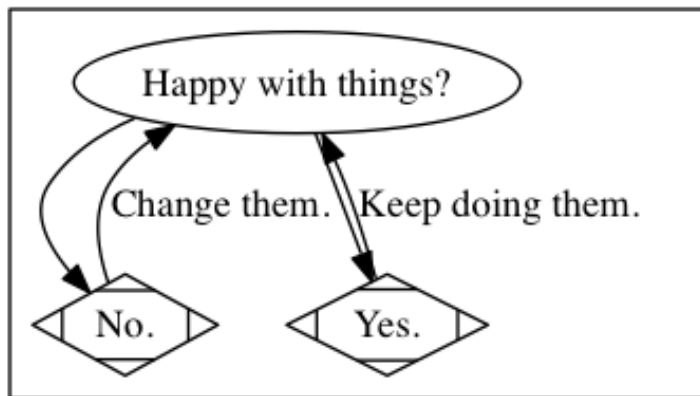


2. Graphviz

ID: org_gcr_2017-05-13_mara:26F93EEA-E64B-439A-BAF6-1BB7F5182D12

```
digraph graphviz {
  subgraph cluster {
    ayh [label="Happy with things?", shape=ellipse];
    no [label="No.", shape=Mdiamond];
    yes [label="Yes.", shape=Mdiamond];
    ayh -> no;
    ayh -> yes;
    no -> ayh [label="Change them."];
    yes -> ayh [label="Keep doing them."];
  }
  labelloc="t";
  label="Life is simple:\nAttribution: @tgttext";
}
```

Life is simple:
Attribution: @tgttext



3. PlantUML

ID: org_gcr_2017-05-13_mara:ADF3A220-77D0-4635-BB50-D9AF82A803E2

(a) Sequence Diagram

ID: org_gcr_2017-05-13_mara:EEDE4AC4-E400-470F-BD6E-9D921E8FD016

- Feature rich.
- Information rich.

Alice --> Bob: Authentication Request

Bob --> Alice: Authentication Response

Alice --> Bob: Another authentication Request

Alice <-- Bob: another authentication Response

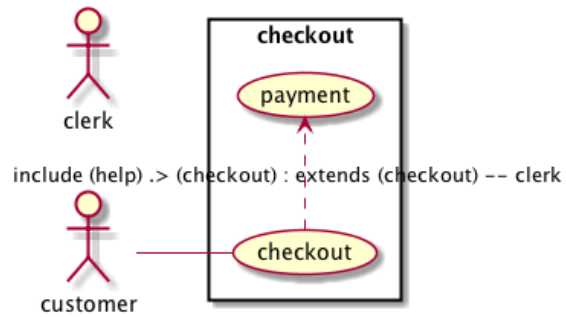


(b) **Use Case Diagram**

ID: org_gcr_2017-05-13_mara:8223D025-909D-4B14-A5C2-D939FB2F7E5F

- Actor variable aliasing feature.

```
left to right direction
skinparam packageStyle rect
actor customer
actor clerk
rectangle checkout {
customer -- (checkout)
(checkout) .> (payment) : include (help) .> (checkout) : extends (checkout) -- clerk
}
```



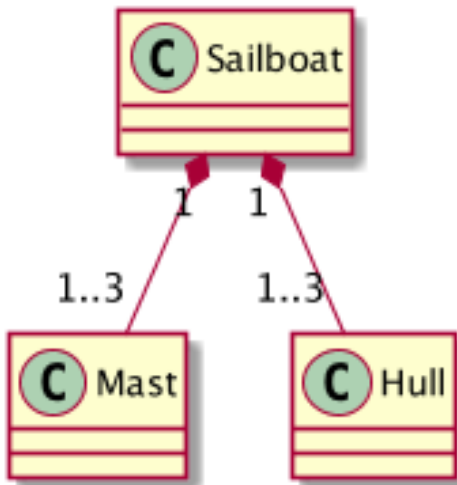
(c) **Class Diagram**

ID: org_gcr_2017-05-13_mara:E0596CAD-4A2C-4230-860F-077FA6E0EB04

- Valuable for all sorts of ideas in addition to classes.
- `hide`, `show`, and `include` are mentioned.
 - Could be a great reuse mechanism combined with `noweb` and `tangling`.
- Spotted characters might be useful to indicating other things.
 - Example is data which is clearly a first-class citizen.
 - Six package visualization types.
 - Packaging vs. namespaceing.
 - Good support for splitting large images among output pages.

```
title This is not a sailboat
scale 200 width
Sailboat "1" *-- "1..3" Mast
Sailboat "1" *-- "1..3" Hull
```

This is not a sailboat



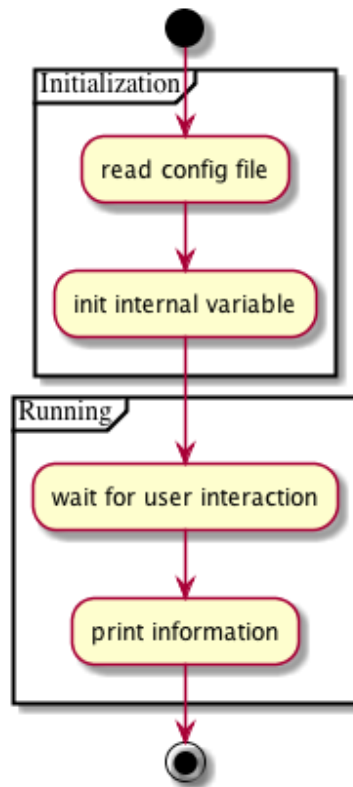
(d) **Activity Diagram**

ID: org_gcr_2017-05-13_mara:31FDFA62-F14F-48CB-9EFD-997EF9EE92BF

- May indicate top to bottom flow using top.
- May label arrows.
- May force arrow direction.
- if/else structure for branching.
- Partition construct.
- New syntax with more examples.

```
start
partition Initialization {
:read config file;
:init internal variable;
}
partition Running {
:wait for user interaction;
:print information;
}

stop
```

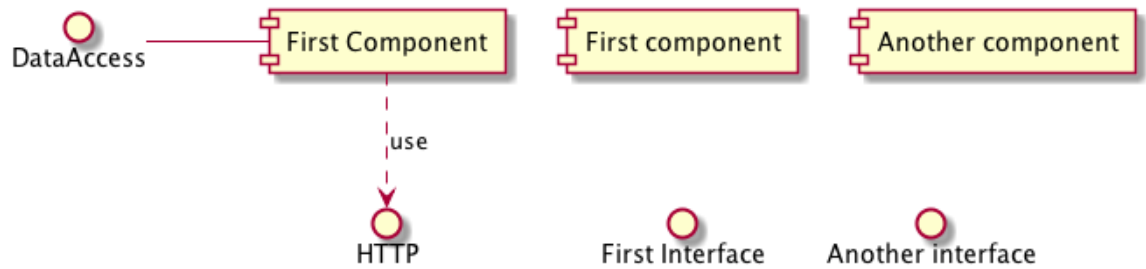


(e) **Component Diagram**

ID: org_gcr_2017-05-13_mara:029E7ABD-6F38-412E-ABF4-0A202D7E47EF

- The names to define all of the diagram entity types.
- Identify “Modern UML”.
- Good for summaries.

```
[First component]
[Another component]
() "First Interface"
() "Another interface" as Interf2
DataAccess - [First Component]
[First Component] ..> HTTP : use
```



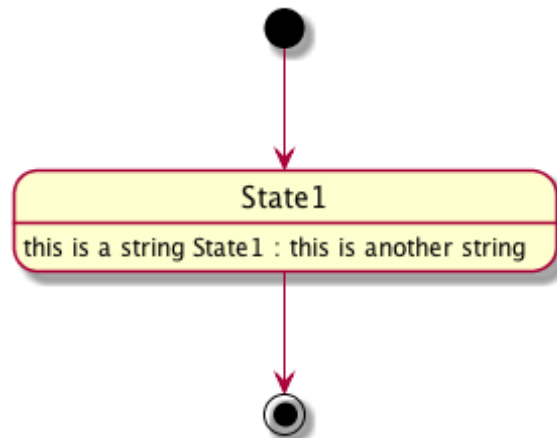
(f) **State Diagram**

ID: org_gcr_2017-05-13_mara:558F580B-2F94-4A23-9EEB-9DC00BB3B19C

[*] --> State1

State1 --> [*]

State1 : this is a string State1 : this is another string



(g) **Object Diagram**

ID: org_gcr_2017-05-13_mara:34FC630D-40D9-4E93-8AD9-FD682B32454E

```
object Object01  
object Object02  
Object01 <|-- Object02
```



(h) **Options**

ID: org_gcr_2017-05-13_mara:F9F5B9E8-5B8F-4791-9516-880788A0667F

- Commands.
 - Header and footer values.
 - Zoom level.
 - Creole markup for most text elements.
 - Lists and sub-lists.
 - Horizontal lines. Will appear in most containers.
 - Headings.
 - Plain old HTML.
 - Tables, \LaTeX style.
 - Use OpenIconic icons anywhere.
- Fonts and colors.
 - You can change just about everything.
 - You may nest definitions.
 - `monochrome true` option.
 - * If you are printing
 - * Or don't want color.
- Internationalization.
 - Full Unicode character support.