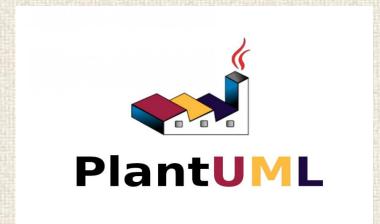
PlantUML

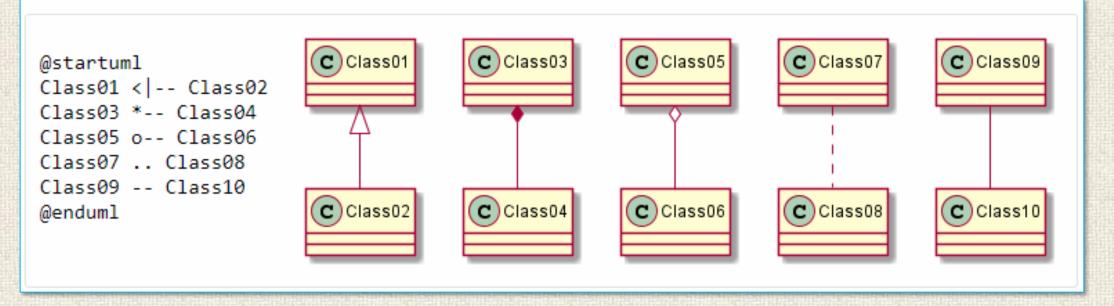


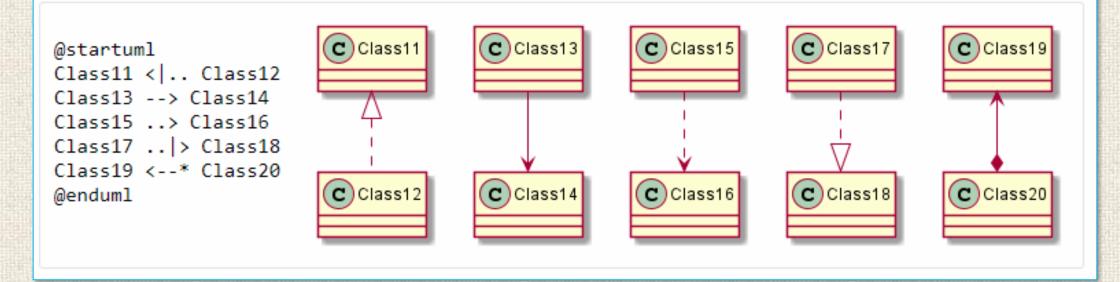
ตอนที่ 1 แนะนำ Plantuml

FAQ-Fact

- PlantUML เป็นเครื่องมือสำหรับวาด UML diagrams
 โดยการใช้ภาษาอย่างง่าย (human readable)
- ในมุมมองของ CASE Tool (Computer-aided Software Engineering) นั้น PlantUML เหมาะที่จะเป็น drawing tool มากกว่า modeling tool.

Class Diagram



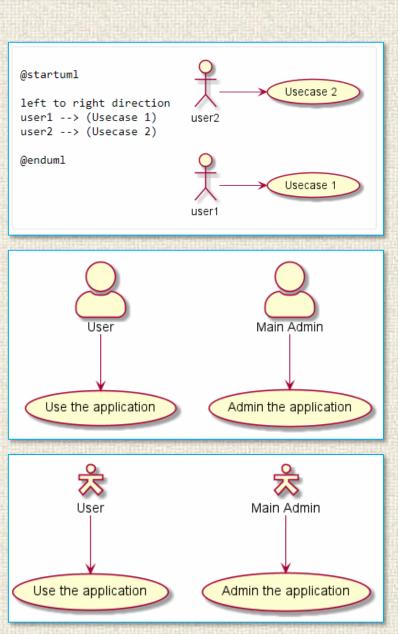


Sequence Diagram

```
@startuml
participant Participant as Foo
actor
            Actor
                         as Foo1
                                                                                        Collections
                                    Participant
                                                                                                     Queue
boundary Boundary as Foo2
                                               Actor
                                                     Boundary
                                                               Control
                                                                       Entity |
                                                                             Database
control
          Control as Foo3
                                         To actor 类
entity Entity as Foo4
database Database as Foo5
                                          To boundary
collections Collections as Foo6
            Oueue
                         as Foo7
queue
                                          To control
Foo -> Foo1 : To actor
                                         To entity
Foo -> Foo2 : To boundary
Foo -> Foo3 : To control
                                          To database
Foo -> Foo4 : To entity
Foo -> Foo5 : To database
                                          To collections
Foo -> Foo6 : To collections
Foo -> Foo7: To queue
                                          To queue
@enduml
                                                     Boundary
                                                               Control Entity
                                                                             Database
                                               Actor
                                    Participant
                                                                                                     Queue
                                                                                        Collections
```

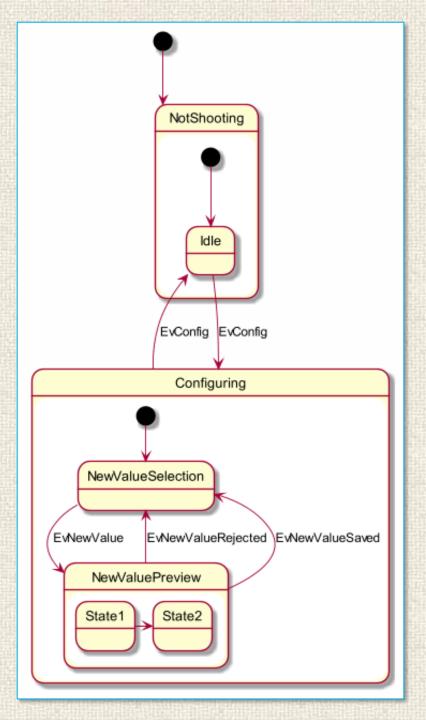
Usecase Diagram

```
Restaurant
@startuml
left to right direction
                                                             Eat Food
actor Guest as g
package Professional {
  actor Chef as c
  actor "Food Critic" as fc
                                          Guest
                                                           Pay for Food
package Restaurant {
                                      Professional
  usecase "Eat Food" as UC1
  usecase "Pay for Food" as UC2
                                                               Drink
  usecase "Drink" as UC3
  usecase "Review" as UC4
                                                              Review
fc --> UC4
                                          Chef
g --> UC1
g --> UC2
g --> UC3
@enduml
                                       Food Critic
```



State Diagram

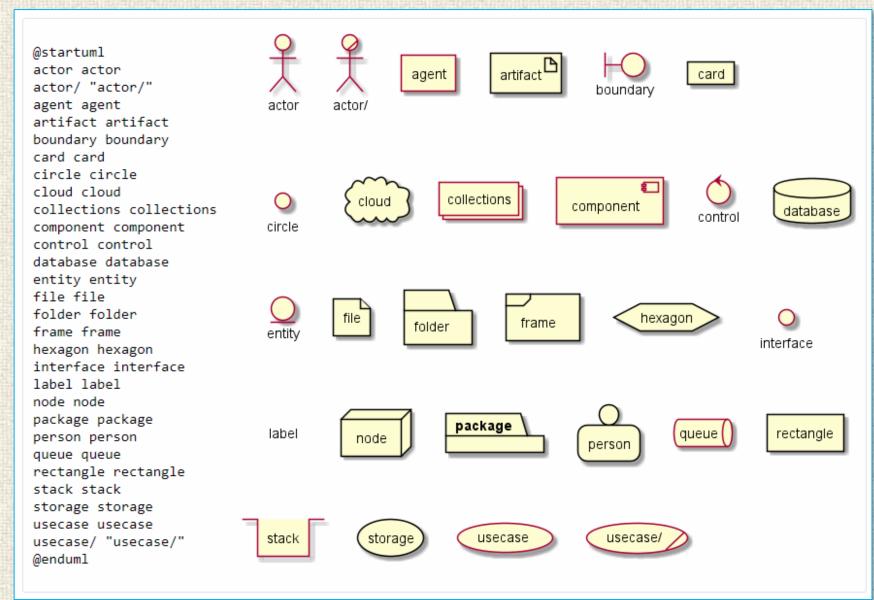
```
@startuml
scale 350 width
[*] --> NotShooting
state NotShooting {
 [*] --> Idle
 Idle --> Configuring : EvConfig
 Configuring --> Idle : EvConfig
state Configuring {
 [*] --> NewValueSelection
 NewValueSelection --> NewValuePreview : EvNewValue
 NewValuePreview --> NewValueSelection : EvNewValueRejected
 NewValuePreview --> NewValueSelection : EvNewValueSaved
  state NewValuePreview {
     State1 -> State2
@enduml
```



Component Diagram

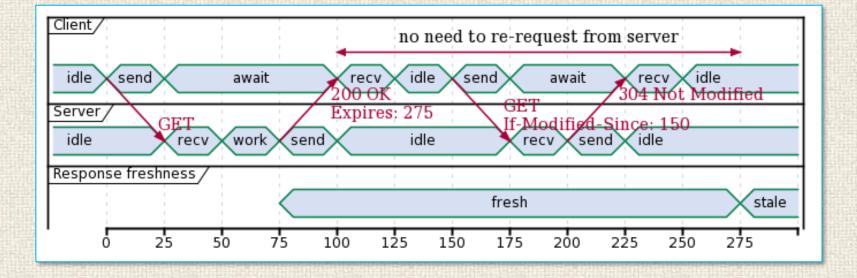
```
Some Group
@startuml
package "Some Group" {
                                            First Component
                                                                          Another Component
 HTTP - [First Component]
                                                                HTTP
  [Another Component]
node "Other Groups" {
                                                      Other Groups
 FTP - [Second Component]
                                                                       8
  [First Component] --> FTP
                                                       Second Component
                                                                                   Example 1
                                              FTP
cloud {
  [Example 1]
                                                                                     MySql
database "MySql" {
                                                                                This is my folder
 folder "This is my folder" {
    [Folder 3]
                                                                                   Folder 3
  frame "Foo" {
    [Frame 4]
                                                                                |Foo/
[Another Component] --> [Example 1]
                                                                                    Frame 4
[Example 1] --> [Folder 3]
[Folder 3] --> [Frame 4]
@enduml
```

Deployment Diagram



Timing Diagram

```
@startum1
concise "Client" as Client
concise "Server" as Server
concise "Response freshness" as Cache
Server is idle
Client is idle
@Client
0 is send
Client -> Server@+25 : GET
+25 is await
+75 is recv
+25 is idle
+25 is send
Client -> Server@+25 : GET\nIf-Modified-Since: 150
+25 is await
+50 is recv
+25 is idle
@100 <-> @275 : no need to re-request from server
@Server
25 is recv
+25 is work
+25 is send
Server -> Client@+25 : 200 OK\nExpires: 275
+25 is idle
+75 is recv
+25 is send
Server -> Client@+25 : 304 Not Modified
+25 is idle
@Cache
75 is fresh
+200 is stale
@enduml
```



Network diagram

```
@startum1
                                                                                       210 x x x/24
                                                                                                                        210.x.x.2
                                                                                                             210.x.x.1
                                                                                                             210.x.x.20
nwdiag {
                                                                                                                       group nightly {
    color = "#FFAAAA";
    description = "<&clock> Restarted nightly <&clock>";
                                                                                                                         web02
    web02;
    db01;
                                                                                                             172.k.x.1
                                                                                                                         172.x.x.2
  network dmz {
      address = "210.x.x.x/24"
                                                                                          internal
                                                                                       172.x.x.x/24
                                                                                                                       172.x x.100
      user [description = "<&person*4.5>\n user1"];
                                                                                                 172.x x.101
                                                                                                            172.x x.110
      // set multiple addresses (using comma)
      web01 [address = "210.x.x.1, 210.x.x.20", description = "<&cog*4>\nweb01"]
                                                                                                   web02 [address = "210.x.x.2", description = "<&cog*4>\nweb02"];
                                                                                                                         db01
  network internal {
      address = "172.x.x.x/24";
      web01 [address = "172.x.x.1"];
      web02 [address = "172.x.x.2"];
      db01 [address = "172.x.x.100", description = "<&spreadsheet*4>\n db01"];
      db02 [address = "172.x.x.101", description = "<&spreadsheet*4>\n db02"];
      ptr [address = "172.x.x.110", description = "<&print*4>\n ptr01"];
@enduml
```

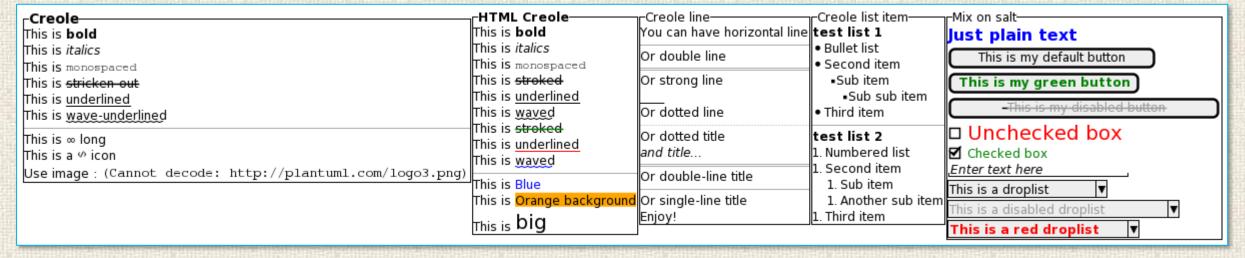
Salt (Wireframe)

```
Edit Source Refactor
@startsalt
                                                             General FullscreeNew
                                                                                   vior Saving
                                                              Open image in: Sm Open File
{* File | Edit | Source | Refactor
                                                             Smooth images Close All med
 Refactor | New | Open File | - | Close | Close All }
                                                             ☑ Confirm image deletion
{/ General | Fullscreen | Behavior | Saving }

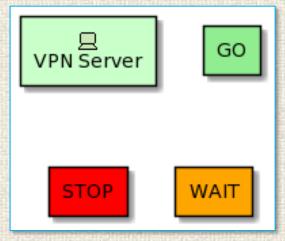
☐ Show hidden images

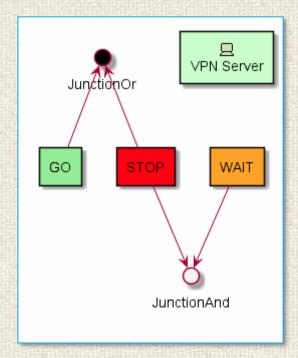
                                                              Close
 Open image in: | ^Smart Mode^ }
[X] Smooth images when zoomed
[X] Confirm image deletion
    Show hidden images
[Close]
@endsalt
```

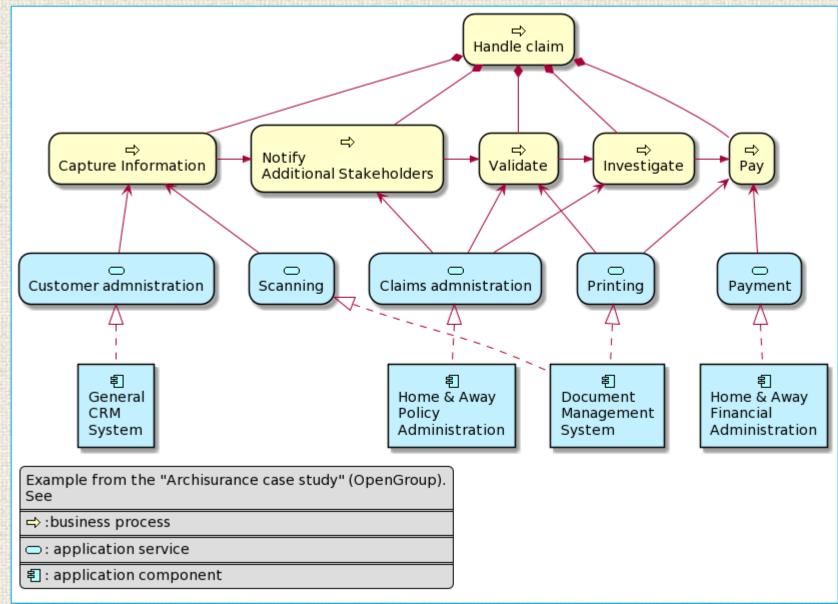




Archimate Diagram

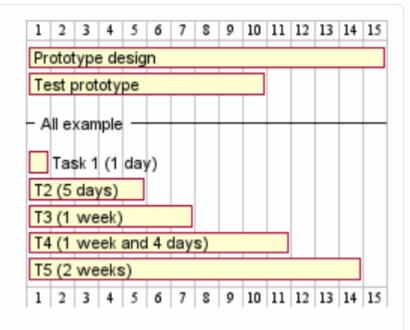


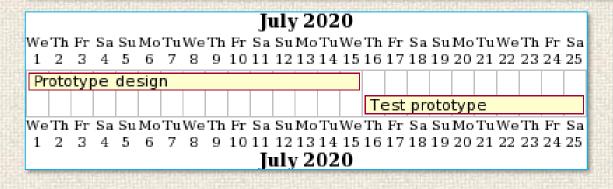


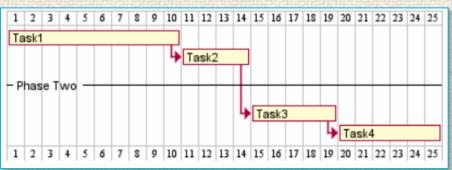


Gantt Diagram

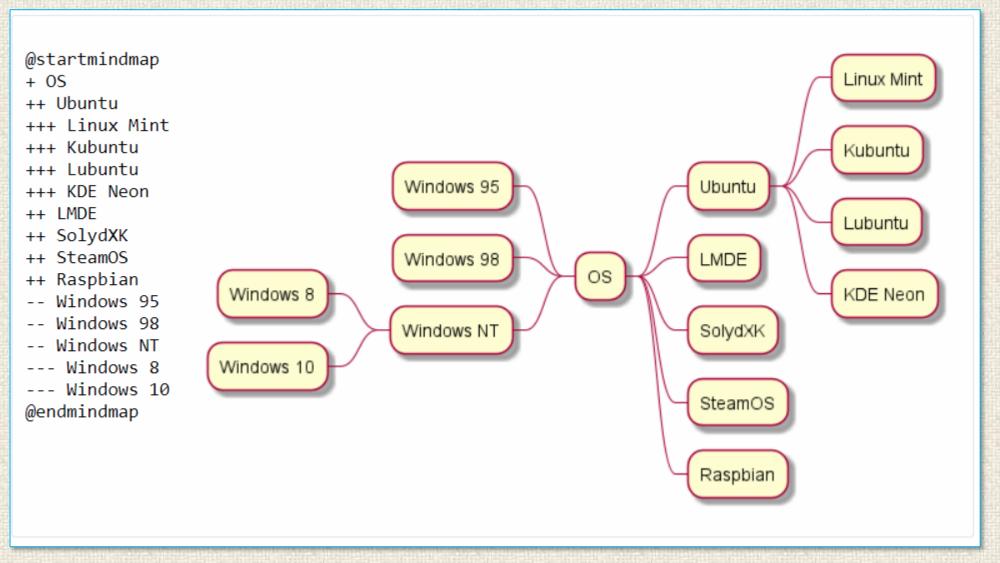
```
@startgantt
[Prototype design] lasts 15 days
[Test prototype] lasts 10 days
-- All example --
[Task 1 (1 day)] lasts 1 day
[T2 (5 days)] lasts 5 days
[T3 (1 week)] lasts 1 week
[T4 (1 week and 4 days)] lasts 1 week and 4 days
[T5 (2 weeks)] lasts 2 weeks
@endgantt
```

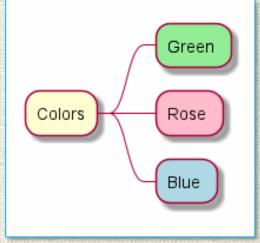




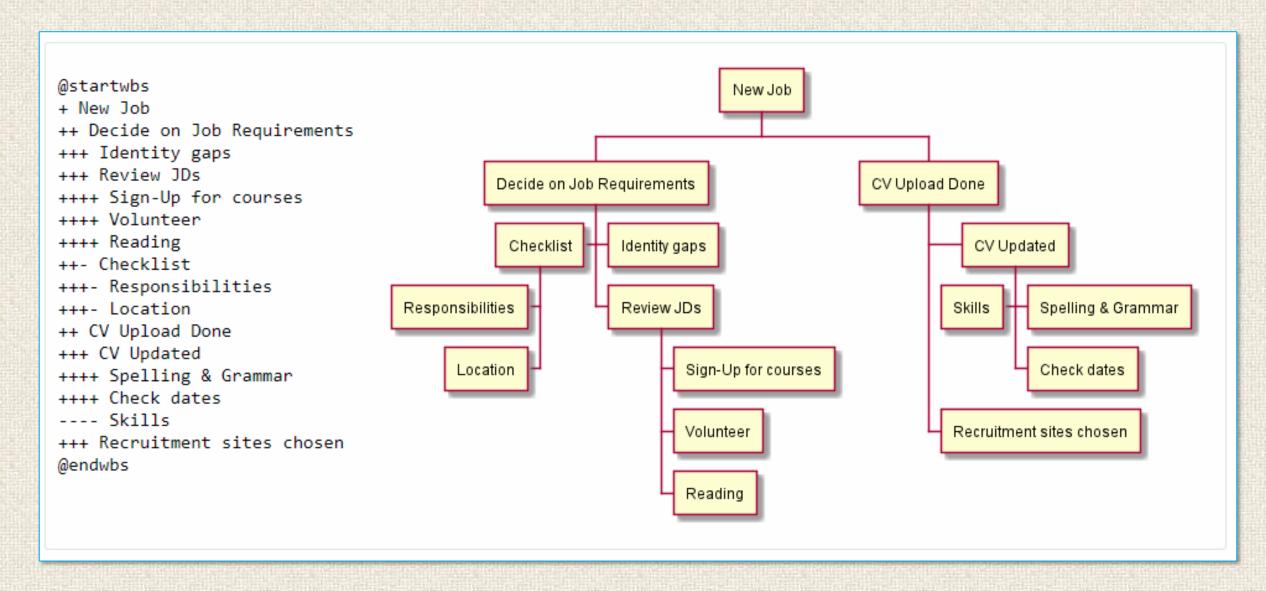


MindMap



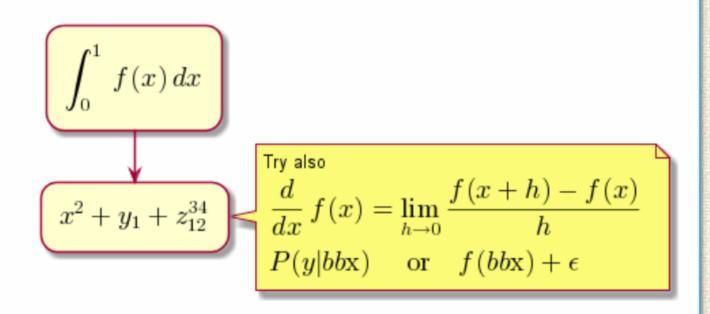


Work Breakdown Structure (WBS)



Mathematic

```
@startuml
:<math>int_0^1f(x)dx</math>;
:<math>x^2+y_1+z_12^34</math>;
note right
Try also
<math>d/dxf(x)=lim_(h->0)(f(x+h)-f(x))/h</math>
<math>P(y|bb"x") or f(bb"x")+epsilon</math>
end note
@enduml
```



เว็บไซต์ที่เกี่ยวข้องกับ PlantUML

เว็บไซต์

https://plantuml.com/

ทดลองเขียนด้วย online server

http://www.plantuml.com/plantuml/

Source code (github)

https://github.com/plantuml/plantuml