

Project Scope

Subgroup: CD & JSON

Goals.

- Test cases for existing CD4A to PlantUML Pretty Printer
- Create JSON to PlantUML Pretty Printer
- CLI Library for JSON Pretty Printer

PlantUML

Open-source tool providing a DSL to create diagrams from various formats such as

- UML (e.g. Class Diagrams, Sequence Diagrams, Activity Diagrams, etc.)
- Gantt charts
- JSON and YAML

Diagram specifications using the PlantUML DSL

Exported to formats like PNG or SVG possible

Some styling attributes in recent versions

Written in Java

Can be incorporated as extensions or add-ons into various applications such as

- IDEs (Visual Studio Code, IntelliJ, etc.)
- Doxygen
- Document Editors (MS Word, Google Docs, LibreOffice)

PlantUML online editor: PlantText.com

PlantUML Pretty Printer for CD4A

Original Task

Create extensive test cases

Actual Task:

- Fix existing Pretty Printer
- Update PlantUMLUtil
- Create extensive test cases

PlantUML Pretty Printer for JSON

Done

- Created Pretty Printer in visualization style of institute
- Created according PlantUMLUtil

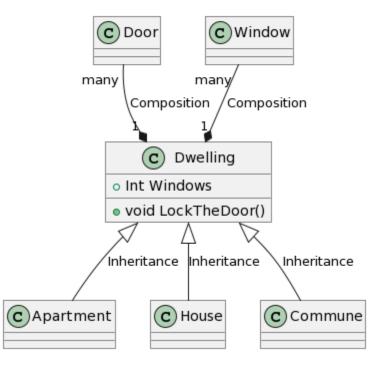
To-Do

Create CLI library

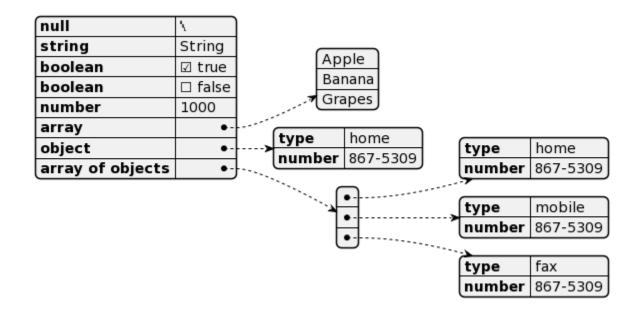
PlantUML Class Diagram

```
@startuml-
    <style>⊣
 ∃ classDiagram {¬
    ··class·{¬
    ----RoundCorner-0-
    </style>-
    title Relationships - Class Diagram-
    class Dwelling {-
     ··+Int·Windows-
    ··+void·LockTheDoor()-
16
    class-Apartment-
    class-House-
    class · Commune¬
    class-Window-
    class-Door-
    Dwelling < -down- Apartment: Inheritance-
    Dwelling < -down - Commune: Inheritance
    Dwelling < -down- House: Inheritance-
    Dwelling "1" *-up- "many" Window: Composition-
    Dwelling "1" *-up- "many" Door: Composition-
    @enduml9
```

Relationships - Class Diagram

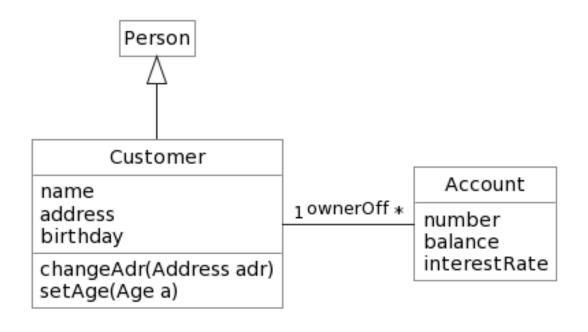


PlantUML JSON



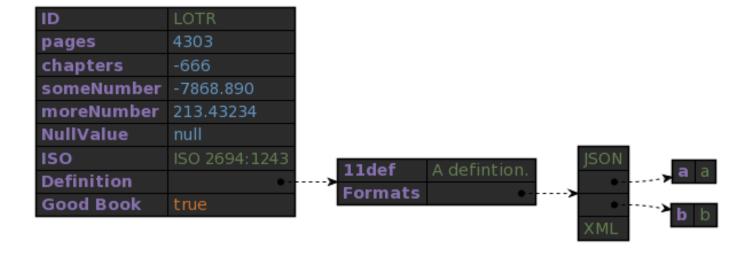
PlantUML i3 Class Diagram Style

```
@startuml
   <style>¬
3 ▼ —classDiagram·{¬
   ---class-{-
   BackgroundColor White
      RoundCorner 0
   </style>-
   hide circle-
   hide empty members-
   class · Customer · {¬
    —name-
   —address-
  -birthday-
   -changeAdr(Address adr)-
   —setAge(Age-a)¬
   class · Account · {¬
     -number-
     -balance-
   —interestRate¬
   class Person-
  Customer "1" - right - "*" Account: ownerOff
   Customer - - up - | > - Person -
  @enduml
```



PlantUML IntelliJ JSON Style

```
@startjson-
    <style>¬
 3 ▼ jsonDiagram {¬
    --node-{-
        BackGroundColor #2b2b2b-
        RoundCorner - 0-
    }-
    </style>¬
      "<color:#8872b0>ID": "<color:#688153>LOTR", -
      -"<color:#8872b0>pages": "<color:#6798c1>4303",-
     --"<color:#8872b0>chapters": "<color:#6798c1>-666",-
     --"<color:#8872b0>someNumber": "<color:#6798c1>-7868.890",-
     "<color:#8872b0>moreNumber": "<color:#6798c1>213.43234",-
    "<color:#8872b0>NullValue": "<color:#6798c1>null",-
     -- "<color: #8872b0>ISO": - "<color: #688153>ISO 2694: 1243", -
     ·· "<color:#8872b0>Definition": {-
     "<color:#8872b0>11def": "<color:#688153>A-defintion.",-
    ---"<color:#8872b0>Formats": [-
     "<color:#688153>JSON",-
                              -color #887(b)>b" "ccol0r:#68815;
3>b"
                           "<co10r:#688153>XML"
12f>true"
                       "<color:#8872b0>Good Book": "<color:#cb74
                     @endjson
```



Roadmap

Done

- Created JSON to PlantUML Pretty Printer in visualization style of institute
- Updated PlantUMLUtil for CD4A To PlantUML Pretty Printer
- Created according PlantUMLUtil

Work in Progress

- Fix existing CD4A To PlantUML Pretty Printer
- Create extensive test cases for it

Open Tasks

- Create CLI library for JSON Pretty Printer
- Write report