

```

classDiagram
    class PokerFaceFactory {
        +create_intermediate_node()
        +create_leaf_node()
    }
    class TreeBuilder {
        +icon_factory
        +root
        +build()
        +build_recursive()
        +show()
    }
    class IconFactory {
        <<interface>>
        +create_intermediate_node()
        +create_leaf_node()
    }
    class RectangleBuilder {
        +show()
    }
    class Client
    class Iterator {
        <<interface>>
        +next()
        +has_next()
    }
    class RectangleIterator {
        +stack
        +root
        +has_next()
        +next()
    }
    class IntermediateNode {
        +children
        +add_children()
        +show()
    }
    class Node {
        <<interface>>
        +icon
        +name
        +show()
    }
    class LeafNode {
        +show()
    }
    class TreeVisitor {
        +visit_intermediate_node()
        +visit_leaf_node()
    }
    class Visitor {
        <<interface>>
        +visit_intermediate_node()
        +visit_leaf_node()
    }
    class RectangleVisitor {
        +max_width
        +visit_intermediate_node()
        +visit_leaf_node()
    }

    PokerFaceFactory ..|> IconFactory
    TreeBuilder --|> Builder
    TreeBuilder o--> IconFactory : icon_factory
    TreeBuilder o--> Root : root
    IconFactory <|-- RectangleBuilder
    Client <..> Iterator
    Client <..> Builder
    Iterator <|-- RectangleIterator
    IntermediateNode ..|> Node
    LeafNode ..|> Node
    TreeVisitor ..|> Visitor
    RectangleVisitor ..|> Visitor
    Node <..> IconFactory
    Node <..> Visitor
    Iterator <..> Client
    Visitor <..> Client

```

```
F:\计科大三下\软件工程\FunnyJson\src>fje -f ../assets/fruit.json -s tree -i simple
```

```
├── oranges
│   └── mandarin
│       ├── clementine
│       └── tangerine: cheap & juicy!
└── apples
    ├── gala
    └── pink lady
```

```
F:\计科大三下\软件工程\FunnyJson\src>>fje -f ../assets/fruit.json -s rectangle -i simple
```

```
graph LR
    oranges --- mandarin
    oranges --- clementine
    oranges --- tangerine["tangerine: cheap & juicy!"]
    apples --- gala
    apples --- pink_lady["pink lady"]
```

```
F:\计科大三下\软件工程\FunnyJson\src>fje -f ../assets/fruit.json -s tree -i poker
```

```

├── ◇ oranges
│   ├── ◇ mandarin
│   │   ├── ♡ clementine
│   │   └── ♡ tangerine: cheap & juicy!
│   └── ◇ apples
│       ├── ♡ gala
│       └── ♡ pink lady
└──

```

这张图由于在windows系统的终端显示会出现不对齐问题，就在ubuntu系统中显示。

```
betty@ubuntu:~/Desktop/funnyJson$ python3 fje.py -f fruit.json -s rectangle -i p
oker
├── oranges
│   ├── mandarin
│   │   ├── clementine
│   │   └── tangerine: cheap & juicy!
│   └── apples
│       ├── gala
│       └── pink lady
```

github repo url

<https://github.com/Coir-hat-man/FunnyJson2.git>