```
[TOC] #
0
   emmylua
                            https://emmylua.github.io/zh_CN/annotation.html emmylu-
                 emmylua
   : https://emmylua.github.io/annotation.html
a
1
            C++ struct
                                 struct
                                              struct
  C++
// struct
struct People{
  string name;
 string address;
 int age;
};
// People
PeoPle one; // one name address age
Lua
                          lua
Lua
---@class People
---Ofield name string
---Ofield address string
---@field age int
---@type People
local one; -- one name address age
   avatar
  * --(???) * --(???) * --(???)
lua
    -(???)
2
  • 1
    —(???) TYPE{|OTHER_TYPE} (???)
  • 2 C++ struct
    --(???) TYPE[: PARENT_TYPE {, PARENT_TYPE}] (???)
  • 3 class
    —(??? public|protected|private) field_name TYPE{|OTHER_TYPE} (???)
```

```
• 4
   —(???) param_name TYPE{| OTHER_TYPE} (???)
  • 5
   —(???) TYPE{| OTHER_TYPE} (???)
  • 6
   --(???) new_type TYPE{ | OTHER_TYPE}
  • 7
    —(???) G1 [: PARENT_TYPE] [, G2 [: PARENT_TYPE]]
3
3.1 type
 type
   —(???) TYPE{|OTHER_TYPE} (???)
  * TYPE OTHER_TYPE lua * (???) comment
 * {} 0 * [] 0 1
Lua : * nil * boolean bool true false * number * string: * function * userdata
     * thread Lua * any * table table * void
     1.
---@class People
--- Ofield name string
--- Ofield address string
---Ofield age int
--- Otype People Oinstance of People
local one = {}
  • Lua
--- Otype People | number O People number
local one
  2.
--- Otype People Oglobal variable type
global_people = {}
```

3. table

```
local team = {}
---@type People @ People
team.one = getPeople()
                  * 1
--- Ctype string, number Cone string Ctwo number
local one, two
  • 2
--- Otype string Cone string
--- Otype number Otwo number
local one, two
3.2
 TYPE[]
    —(???) TYPE[] (???)
---@class People
---Ofield name string
---Ofield address string
---@field age int
---@type People[]
local people_list = {}
-- one People
local one = people_list[1]
for i, two in pairs(people_list) do
    -- i number
    -- two People
end
avatar
avatar
3.3
 table
```

```
--- Otype table < string, People > O People string key, value People
local dict = {}
-- one People
local one = dict['key']
for key, two in pairs(dict) do
   -- key string
   -- two People
end
avatar
       table key value —(???) table (???)
3.4 fun
 @fun
  • :
    —(???) fun(param1: PARAM_TYPE1, param2: PARAM_TYPE2) {:RE-
    TURN_TYPE1, RETURN_TYPE2} (???)
    1)
                ---@type fun() @
                                                local fun1
           lua
    2
                   --- Otype fun(param1 : string) O
                                                            local fun2
             lua
    3
                   --- Otype fun(param1 : string | number, param2 : number) O
             lua
                                                                                  strin
    4)
             lua
                   --- @type fun(param1 : string, param2 : number @
                                                                                  stri
    5)
                   --- @type fun(param1 : string, param2 : number) : number, string | number
             lua
3.5 class
 @class C++ struct
    —(???) TYPE[: PARENT_TYPE {, PARENT_TYPE}] (???)
```

—(???) table<VALUE\_TYPE, VALUE\_TYPE> (???)

```
1
                 ---@class People @ People ---@field name string ---@field address s
           lua
                 ---@class Man : People @ Man
    2
           lua
                                                  ---Ofield phone number avatar
    3
                 ---@class Man : People, Team @ Man ---@field attr string @
           lua
    1 class
                    class
                            @tvpe
                                    lua ---@class People @ People ---@field name st
                   class field "'lua —(???) People (???) —(???) name string —(???)
    address string —(???) age int
    —(???) People local one – one People
    one.attr = 1 - People attr function one.fun1() - People fun1 end
    —(???) People local two "' avatar
3.6 field class
@field
          class
                  public|protected|private) field_name TYPE{|OTHER_TYPE}
    (???)
              @class

    field

    ---@class People @ People
    ---Ofiled public name string O class name
    local one = {} -- class People one name
3.7 param
 @param
        —(???) param_name TYPE{| OTHER_TYPE} (???)
    1
    --- Oparam people People O People
    ---Oparam age number O
     ---Oparam info string | number O string
                                                number
    local function setInfo(people, age, info)
    end
    avatar
    2
     ---Oparam info string | number O string
                                                number
    setCallback(function(info)
```

```
end)
    3
     --- Oparam k number O
     --- Oparam info People O People
    for k, info in pairs (info table) do
     end
3.8 return
 @return
            —(???) TYPE{| OTHER_TYPE} (???)
    1)
            --(???) TYPE{| OTHER_TYPE}, TYPE{| OTHER_TYPE} (???)
     2
    (???)
           "'lua —(???) People (???) local function create()
    1
    end "' avatar
              "'lua —(???) number (???) —(???) People (???) local function getInfo()
    end ""
              "'lua —(???) number, string (???) (???) —(???) People (???) local function
    3
    getInfo()
    end ""
3.9 alias
 @alias
                  C++ typedef
    --(???) new_type TYPE{ | OTHER_TYPE}
         "'lua —(???) NewOne string | number (???)
    —(???) NewOne (???) local one "'
         "'lua —(???) Handler fun(one: string, two: number): void (???)
    —(???) handler Handler function addHandler(handler) end "'
```

```
3.10 generic
 @generic
                 C++
                            C++
```C++
// T
template <typename T>
T const& Max (T const& a, T const& b)
    return a < b ? b:a;
}
    —(???) G1 [: PARENT_TYPE] [, G2 [: PARENT_TYPE]]
          "'lua —(???) T —(???) param<br/>1 T —(???) T local function test_one(param<br/>1) end
     1)
    —(???) People local one
     local value = test_one(one) - one People test_one
   People
   value People
     ![avatar](https://raw.githubusercontent.com/yinfei8/LuaHelper/master/images/annotate/
     2)
     ```lua
     ---@generic T : Transport, K
     ---@param param1 T
     ---@param param2 K
     ---@return T
     local function test_two(param1, param2)
         -- todo
     end
4
```lua
-- 1 type
---@class People @ People
---@field name string @
---Ofield address string O
---@field age int @
---@type People
local one
                            People one.
  People
print(one.address)
-- 2
                     People
        name
```

```
---Oparam name string O
---@return People @
                       People
function create_people(name)
end
        People two
                         People
local two = create_people("yinfei")
              People
      two.
print(two.age)
-- 3
          two People three three
                                      People
local three = two
                People
      three.
print(three.age)
-- 4
       lua
---@class Car @ Car
---Ofield name string
---Ofield color string
---@type Car
local car -- car People
car.age = 1 --
                    car attr car
                                     Car
  Car age
function car.run() --
                         car fun1
                                     car Car
   Car
  run
end
-- Car 4 name color attr run
---@type Car
local car1
      car1.
                Car
                      name color attr run
print(car1.age)
-- 5
---@class Man : People @ Man
                               People
---@field height number @man
                               height
local four
            -- four
                           class
                                      four
   four
  Man
     four.
               People
                           height
print(four.height)
-- 6
-- test_one
               param1
---@generic T
---@param param1 T
```

```
---@return T
local function test_one(param1)
end
---@type People
local one

local value = test_one(one) -- one People test_one People value People
-- value. People
print(value.age)
```