VoiceJava 定义

0. 定义 Name:

○ 语法: [_]+

。 示例: hello world,

1. 定义package:

○ 语法: define package Name [dot Name]*

 示例: define package hello world dot nice code, define package hello dot world

2. 导入module:

- 语法: import static? Name [dot [Name | star]]*
- 示例: import longyan university, import longyan dot university, import longyan dot star

3. 定义interface:

- 语法: define (Annotation | public | protected | private | abstract |
 static | final | strictfp)? interface Name
- 示例:define interface hello world, define interface hello

4. 定义class:

- 语法: define (Annotation | public | protected | private | abstract | static | final | strictfp)* class Name [extends Name]? [implements Name]?
- 示例: define public class hello world, define public class hello world extends greeting implements good morning

5. 定义构造函数

○ 语法: define constructor

。 备注: 还未实现。

6. 定义方法method:

- 语法: define (Annotation | public | protected | private | abstract | static | final | synchronized | native | strictfp)* function Name [throws Exception]?
- 示例: define public function say hello, define public function say hello throws Exception

7. 定义箭头函数:

○ 语法: define arrow function

。 示例: 备注: 还未实现。

8. 属性/变量定义:

语法: define (Annotation | public | protected | private | static | final | transient | volatile)* variable Name

• 示例: define private variable count, define variable list

9. 定义类型:

- 语法: type (list of Name | Name [dot Name]? [with Name? [and Name]*]?)[extends]?
- 示例: type int, type void, type Node with Integer => Node<Integer>, type Node with => Node<>
- 注意: 若Name为question mark, 则转换为?, 比如: type Node with question mark => Node<?>

10. 定义for循环:

○ 语法: define [enchanced]? for

o 备注: enhanced还未实现。

11. 定义while循环:

o 语法: define [do]? while

。 备注: do还未实现

12. 定义**if**:

o 语法: define if

13. 定义switch:

o 语法: define switch

14. 定义try-catch:

○ 语法: define try catch

。 备注: 还未实现。

15. 定义@Override

○ 语法: define at override

。 备注: 还未实现。

16. 定义子表达式,即括号。

○ 语法: subexpression

17. break

18. continue

19. 构建新实例:

- 语法: new instance Name [dot Name]* [with Name [and Name]*]?
- 示例: new instance puppy, new instance hash map dot entry, new instance puppy with => new Puppy<>>(), new instance puppy with question mark => new

Puppy<?>(), new instance puppy with cat and dog => new Puppy<cat, dog>()

20. 抛出异常:

∘ 语法: throw new Name

21. let赋值:

- let Name [dot Name]? equal [expression]?
 - o 示例: let score equal, let score equal expression

23. return返回:

• return [expression]?

24. 12 种表达式

- expression? lambda expression // lambda expression
- expression? not expression // unary not expression
- expression? dot Name // 仅可作用于 Name [dot Name]+, 暂不支持其它。
- o expression? call Name // 后可move next, 然后继续call Name
- o expression? Name [dot Name]* [call Name] // 后可move next, 然后继续call Name
- o expression? Name [dot Name]*
- expression? variable Name
- expression? (int | byte | short | long | char | float | double | boolean | string) Name
- expression? Name plus plus
- expression? Name minus minus
- expression? plus plus Name
- expression? minus minus Name
- expression? expression (op | compare) expression
- expression? variable Name index Name
 - 示例: expression variable name list index index, 数组索引
- expression? string Name
 - 示例: string hello world, 支持多个单词。
 - 注意:和前面重复。
- conditional expression 三目运算?:
- o 备注:
 - op ::= plus | minus | times | divide | mod
 - compare ::= less than | less equal | greater than | greater equal | double equal | and | double or
 - 备注: and还不支持

25. 常用指令:

- move next
- jump out
- jump before _
 - 示例: jump before hello
- jump after _

- 示例: jump after hello
- jump to line [_]? [start | end]?
 - 示例: jump to line 100 start, jump to line 100 end
- o up [_ lines]?
 - 示例: up 5 lines
- o down [_ lines]?
- left
- right
- select line
 - 备注: 选中当前行
- select body
 - 备注:选中当前的区域
- select _
 - 备注:选中名字
- o select function [_]?
 - 示例: select function sayHello
 - 备注:选中函数
- replace _ to _
- delete
- o undo:撤销