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:

- o 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 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) (Name list | Name [dot Name]? [with Name+]?)
variable Name

- 示例: define private int variable count, define int list variable list, define Pair with Integer String
- 注意: Name+有二义性, possible solution: Name [and Name]*

9. 定义类型:

- 语法: type (Name list | Name [dot Name]? [with Name+]?) [extends _]?
- 。 示例: type int, type void
- 注意: Name+有二义性, possible solution: Name [and Name]*

10. 定义参数:

- 语法: type (Name list | Name [dot Name]? [with Name+]?) variable Name
- 示例: type int variable count, type NodeList with Statement variable nodelist
- 注意: Name+有二义性, possible solution: Name [and Name]*

11. 定义for循环:

- 语法: define [enchanced]? for
- o 备注: enhanced还未实现。

12. 定义while循环:

- ∘ 语法: define [do]? while
- 。 备注: do还未实现

13. 定义**if**:

- 语法: define if
- 14. 定义switch:
 - 语法: define switch

15. 定义try-catch:

- 语法: define try catch
- 。 备注: 还未实现。

16. 定义@Override

- 语法: define at override
- 。 备注:还未实现。

17. 定义子表达式,即括号。

- 语法: subexpression
- 18. break

19. continue

20. 构建新实例:

- 语法: new instance Name [dot Name]*
- o 示例: new instance puppy, new instance hash map dot entry

21. 抛出异常:

○ 语法: throw new _

22.6 种赋值形式:

- let Name [dot Name]? equal call Name
 - 示例: let count equal call compute
- let Name [dot Name]? equal Name [call Name]+
 - 示例: let student dot score equal student call score
- let Name [dot Name]? equal Name [dot Name]*
 - 示例: let score equal student first dot semester dot score
- let Name [dot Name]? equal [variable]? Name
 - 示例: let score equal variable final score
- let Name [dot Name]? equal (int | byte | short | long | char | float | double | boolean | string) Name
 - 示例: let score equal int 2
- let Name [dot Name]? equal [expression]?
 - 示例: let score equal, let score equal expression

23.6 种返回形式:

- o return call Name
- return Name [call Name]+
- o return Name [dot Name]*
- return [variable]? Name
- return (int | byte | short | long | char | float | double | boolean | string) Name
- return [expression]?

24. 12 种表达式

- expression? call Name
- expression? Name [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? Name (op | compare) expression
 - 示例: expression 3 times expression
 - 注意: 语音如何区分数字和字母?
- expression? Name (op | compare) Name
 - 示例: expression 3 plus 4
- 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。
- 。 备注:
 - op ::= plus | minus | times | divide | mod
 - compare ::= less than | less equal | greater than | greater equal | double equal | and | double and
 - 备注: and还不支持

25. 常用指令:

- move next
- jump out
- o 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