# The Reference Manual for $\pm$

Version 3.14

The **A** Development Team

March 4, 2016

## Contents

| 1   | Language Guide    | 1 |
|-----|-------------------|---|
| 1.1 | the basics        | 1 |
| 1.2 | types             | 1 |
| 1.3 | constants         | 1 |
| 1.4 | list              | 1 |
| 1.5 | tuple             | 1 |
| 1.6 | function          | 1 |
| 1.7 | control flow      | 1 |
| 2   | Usage             | 2 |
| 2.1 | declare constants | 2 |
| 2.2 | declare function  | 2 |
| 2.3 | pattern match     | 2 |
| 2.4 | Input and Output  | 2 |
| 2.5 | sample code       | 2 |

## Chapter 1

# Language Guide

| $\S 1.1$ | the basics   |
|----------|--------------|
| §1.2     | types        |
| §1.3     | constants    |
| §1.4     | list         |
| §1.5     | tuple        |
| §1.6     | function     |
| §1.7     | control flow |

### Chapter 2

## Usage

#### §2.1 declare constants

#### §2.2 declare function

Listing 2.1 function fibo(n)

```
fibo(n) :: Int -> Int

= 0 [n == 0]

= 1 [n == 1]

= fibo(n-1) + fibo(n-2)
```

#### §2.3 pattern match

#### §2.4 Input and Output

#### $\S 2.5$ sample code

Here is the sample code, which returns a fibonacci number.

Listing 2.2 sample code

```
fibo(n) :: Int -> Int
1
    = 0 [n == 0]
2
3
    = 1 [n == 1]
    = fibo(n-1) + fibo(n-2)
4
5
   where
6
    who :: Int
7
8
    hoge :: Int
9
10
   m :: Double
11
12
   =2
```