

Syntax of Eigenlanguage

Primitive Forms

Singleton

`()`

Function Application

`f a1 ...`

Grouping

`(x1 ...)`

List Construction

`[x1 ...]`

Function Definition

`→ [p1 ...] z`

Binding

`= [y1 x1
... ...]
z`

Module Declaration

`↔ (m p1 ...) [
→ [e1
 (= [b2 e2
 b3 e3
 ])
 ...]
← [i1
 (i2 a2,1 ...)
 (= [c3 i3
 c4 (i4 a4,1 ...)
 ])
 ...]
y1 x1
... ...
]`

Syntactic Sugar

Name Qualification

`m/y`

Number

`20`

Character

`‘T’`

String

`“This text
is arbitrary.”`

Syntactic Comment

`%x`

Line Comment

`% This text is arbitrary.`

Block Comment

`%%
This text
is arbitrary.
%%`

Code as Data

`\x`

Data as Code

`/x`