

Languages-beta: SIMPLE-Funcons-Index *

The PLanCompS Project

SIMPLE-Funcons-Index.cbs | PLAIN | PRETTY

OUTLINE

Computations

- Normal computation
 - Flowing
 - Giving
 - Binding
 - Storing
 - Interacting
 - Input
 - Output
- Abnormal computation
 - Failing
 - Throwing
 - Returning

Values

- Value Types
 - Primitive values
 - Booleans
 - Integers
 - The null value
 - Composite values
 - Sequences of values
 - Tuples
 - Vectors
 - Abstraction values
 - Generic abstractions
 - Functions
 - Patterns
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*Suggestions for improvement: plancomps@gmail.com.
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.

Computations

Normal computation

Flowing

```
[ Funcon  sequential
  Alias   seq
  Funcon  effect
  Funcon  if-true-else
  Alias   if-else
  Funcon  while-true
  Alias   while ]
```

Giving

```
[ Funcon  initialise-giving
  Funcon  give
  Funcon  given
  Funcon  left-to-right-repeat ]
```

Binding

```
[ Type   environments
  Alias  envs
  Datatype identifiers
  Alias  ids
  Funcon initialise-binding
  Funcon bind-value
  Alias  bind
  Funcon bound-value
  Alias  bound
  Funcon scope
  Funcon collateral ]
```

Storing

```
[ Funcon  initialise-storing
  Datatype variables
  Alias    vars
  Funcon  allocate-variable
  Alias   alloc
  Funcon  allocate-initialised-variable
  Alias   alloc-init
  Funcon  assign
  Funcon  assigned ]
```

Interacting

Input

```
[ Funcon  read ]
```

Output

[*Funcon* **print**]

Abnormal computation

Failing

[*Funcon* **finalise-failing**
Funcon **checked**]

Throwing

[*Funcon* **finalise-throwing**
Funcon **throw**
Funcon **handle-thrown**]

Returning

[*Funcon* **return**
Funcon **handle-return**]

Values

Value Types

[*Type* **values**
Alias **vals**
Funcon **is-equal**
Alias **is-eq**]

Primitive values

Booleans

[*Funcon* **true**
Funcon **false**
Funcon **not**]

Integers

```
[ Type    natural-numbers
  Alias    nats
  Funcon   integer-add
    Alias   int-add
  Funcon   integer-subtract
    Alias   int-sub
  Funcon   integer-multiply
    Alias   int-mul
  Funcon   integer-divide
    Alias   int-div
  Funcon   integer-modulo
    Alias   int-mod
  Funcon   integer-negate
    Alias   int-neg
  Funcon   integer-is-less
    Alias   is-less
  Funcon   integer-is-less-or-equal
    Alias   is-less-or-equal
  Funcon   integer-is-greater
    Alias   is-greater
  Funcon   integer-is-greater-or-equal
    Alias   is-greater-or-equal
  Funcon   decimal-natural
    Alias   decimal ]
```

The null value

```
[ Datatype  null-type
  Funcon    null-value
    Alias    null ]
```

Composite values

Sequences of values

```
[ Funcon    length
  Funcon    index ]
```

Tuples

```
[ Datatype  tuples ]
```

Vectors

```
[ Datatype  vectors
  Funcon    vector
    Funcon    vector-elements ]
```

Abstraction values

Generic abstractions

```
[ Funcon    closure ]
```

Functions

```
[ Datatype  functions  
  Funcon   function  
  Funcon   apply ]
```

Patterns

```
[ Datatype  patterns  
  Funcon   pattern  
  Funcon   match ]
```