

Funcons-beta: Generic *

The P_LanCompS Project

Generic.cbs | PLAIN | PRETTY

Generic abstractions

[*Type* **abstractions**
Funcon **abstraction**
Funcon **closure**
Funcon **enact**]

Meta-variables $T <: \text{values}$
 $T? <: \text{values?}$

Type **abstractions**($_ : \text{computation-types}$)

Funcon **abstraction**($_ : T? \Rightarrow T$) : **abstractions**($T? \Rightarrow T$)

The funcon **abstraction**(X) forms abstraction values from computations.

References to bindings of identifiers in X are dynamic. The funcon **closure**(X) forms abstractions with static bindings.

Funcon **closure**($_ : T? \Rightarrow T$) : \Rightarrow **abstractions**($T? \Rightarrow T$)

closure(X) computes a closed abstraction from the computation X . In contrast to **abstraction**(X), references to bindings of identifiers in X are static. Moreover, **closure**(X) is not a value constructor, so it cannot be used in pattern terms in rules.

Rule **environment**(ρ) \vdash **closure**(X) \longrightarrow **abstraction**(**closed**(**scope**(ρ , X)))

Funcon **enact**($_ : \text{abstractions}(T? \Rightarrow T)$) : $T? \Rightarrow T$

enact(A) executes the computation of the abstraction A , with access to all the current entities.

Rule **enact**(**abstraction**(X)) \rightsquigarrow X

*Suggestions for improvement: plancomps@gmail.com.
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.