

Funcons-beta: Generic

The P_LanCompS Project

Funcons-beta/Values/Abstraction/Generic/Generic.cbs*

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)))

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

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

$\text{enact}(A)$ executes the computation of the abstraction A , with access to all the current entities.

Rule $\text{enact}(\text{abstraction}(X)) \rightsquigarrow X$