

# Funcons-beta: Records \*

The P<sub>L</sub>anCompS Project

Records.cbs | PLAIN | PRETTY

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## Records

[ *Datatype* records  
  *Funcon* record  
  *Funcon* record-map  
  *Funcon* record-select ]

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

*Datatype*  $\text{records}(T) ::= \text{record}(\_ : \text{maps}(\text{identifiers}, T))$

A value of type  $\text{records}(T)$  contains a map from identifiers to values of type  $T$ .

*Funcon*  $\text{record-map}(\_ : \text{records}(T)) : \Rightarrow \text{maps}(\text{identifiers}, T)$

*Rule*  $\text{record-map}(\text{record}(M : \text{maps}(\_, \_))) \rightsquigarrow M$

*Funcon*  $\text{record-select}(R : \text{records}(T), I : \text{identifiers}) : \Rightarrow T?$   
 $\rightsquigarrow \text{map-lookup}(\text{record-map}(R), I)$

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\*Suggestions for improvement: [plancomps@gmail.com](mailto:plancomps@gmail.com).  
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.