

# Encoding Structural Equality in CaPriCon

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## Contents

'utils require import

- Required module: [utils](#)

Type 'A -> A 'x ->

'Eq\_context { A 'a -> Type ? '.Eq -> .Eq ( x ) '.refl -> } def

'Eq A 'y -> Eq\_context .Eq ( y ) ? ? "x = y" defconstr !

'refl Eq\_context .refl ! ! "refl x" defconstr

The type of  $\lambda(y : A)(e : x = y).\mu(e)$  is  $\forall(y : A)(e : x = y)(Eq^P : \forall(a : A), x = a \rightarrow Set_1), Eq^P x(refl\ x) \rightarrow Eq^P y e$ .

2 lambdas [ 'Eq 'refl ] { export } each