

Normalization: Simple Substitution

name : SetName

name = constructor1

...name...

Normalization: Simple Substitution

name : SetName

name = constructor1

...name...

Normalization: Simple Substitution

name : SetName

name = constructor1

...name... \Rightarrow ...constructor1...

Normalization:

Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

Normalization:

Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

...name2...

Normalization:

Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

...name2...

Normalization: Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

...name2... \Rightarrow ...name1...



Normalization: Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

...name2... \Rightarrow ...name1...

Normalization: Simple Substitution 2

name1 : SetName

name1 = constructor1

name2 : SetName

name2 = name1

...name2... \Rightarrow ...name1... \Rightarrow ...constructor1...

The diagram illustrates a substitution step in normalization. It shows a sequence of expressions: ...name2... \Rightarrow ...name1... \Rightarrow ...constructor1... The first two expressions are in blue, and the third is in green. A rounded rectangle highlights 'constructor1' in the first expression, and another rounded rectangle highlights 'constructor1' in the third expression. An arrow points from the first rounded rectangle to the second, indicating the substitution of 'constructor1' for 'name1'.

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`... not true ...`

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`... not true ...`

Normalization: Function Application

`not` : `Boolean` \rightarrow `Boolean`

`not true` = `false`

`not false` = `true`

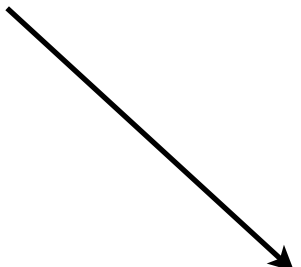
... `not true` ...

Normalization: Function Application

$\text{not} : \text{Boolean} \rightarrow \text{Boolean}$

$\text{not true} = \text{false}$
 $\text{not false} = \text{true}$

$\dots \text{not true} \dots \Rightarrow \dots \text{false} \dots$



Normalization:

Function Application 2

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)...`

Normalization: Function Application

`not : Boolean → Boolean`

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`not false = true`

`...not (not true)...`

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)...`

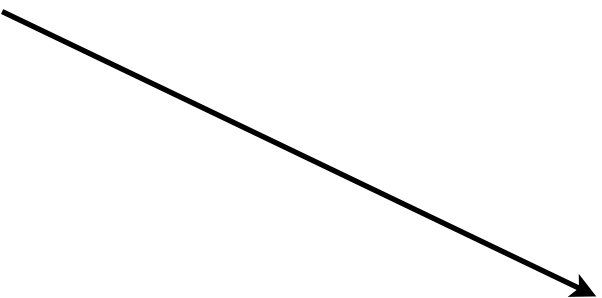
Normalization: Function Application

$\text{not} : \text{Boolean} \rightarrow \text{Boolean}$

$\text{not true} = \text{false}$

$\text{not false} = \text{true}$

$\dots \text{not} (\text{not true}) \dots \Rightarrow \dots \text{not} (\text{false}) \dots$



Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)... ⇒ ...not false...`

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)... ⇒ ...not false...`

Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)... ⇒ ...not false...`

Normalization: Function Application

`not` : Boolean \rightarrow Boolean

`not true` = false

`not false` = true

...`not (not true)`... \Rightarrow ...`not false`...


Normalization: Function Application

$\text{not} : \text{Boolean} \rightarrow \text{Boolean}$

$\text{not true} = \text{false}$

$\text{not false} = \text{true}$

$\dots \text{not} (\text{not true}) \dots \Rightarrow \dots \text{not false} \dots \Rightarrow \dots \text{true} \dots$



Normalization: Function Application

`not : Boolean → Boolean`

`not true = false`

`not false = true`

`...not (not true)... ⇒ ...not false... ⇒ ...true...`