

$\text{newFunction} :: \text{Int} \rightarrow \text{Int}$
 $\text{newFunction } x = x + x$

or: $\text{newFunction } x = \lambda x \rightarrow x + x$

f newFunction

$f (\lambda x \rightarrow x + x)$

$(> 0.5) = (\lambda x \rightarrow x > 0.5)$

$(0.5 >) = (\lambda x \rightarrow 0.5 > x)$

$f \circ g$

$g: \mathbb{Q} \rightarrow \mathbb{N}$

$f: \mathbb{N} \rightarrow \mathbb{R}$

$f \circ g: \mathbb{Q} \rightarrow \mathbb{R}$

$(.) :: (b \rightarrow c) \rightarrow (a \rightarrow b) \rightarrow (a \rightarrow c)$

$f . g = \lambda a \rightarrow f (g a)$