

Operator precedence cheat sheet in Isabelle-HOL (quick and dirty ad-hoc reverse-engineered mostly on a train ride, no quality control at all). For discussion at Isabelle users list.

Class	Symbol(s)	Weight
function	function application, field dereference (record), nth (list)	
type	“set” type constructor, “list” type constructor	
function	$\cap$ (set)	
function	$\cup$ (set), # (list), @ (list), + (nat), Suc (nat)	65
relation	=	
relation	$\in, <, \leq$	50
logic	$\neg$	
logic	$\wedge$	35
logic	$\vee$	30
logic	$\longrightarrow, \leftrightarrow$	25
type	$\Rightarrow$	
logic	$\forall, \exists$	
term	if .. then .. else	
term	$\lambda$	
term	.. (  .. := ..  ) (record)	
term	let .. = .. in ..	
metalogic	$\equiv$	
metalogic	$\implies$	
metalogic	$\bigwedge$	

Table 1: Higher symbols have higher precedence. Weights given where known (grepping Isabelle sources for “infixr”). Classes are my own interpretation.

**Note on classes:**

**function** if it is a function (type constructors “set”, “list” could also be seen as functions)

**relation** if it is a relation

**logic** if it is object logic

**term** term constructors

**metalogic** if it is meta logic