

Basic Type

```
-- Boolean
True : Bool
False : Bool
42 : number
-- Int or Float depending on usage
3.14 : Float
'a' : Char
"abc" : String
-- multi-line String
""""
This is useful for holding JSON or other
content that has "quotation marks".
""""
```

Comments

```
-- a single line comment
{- a multiline comment
{- can be nested -}
-}
--tricks
{-} <-- this can be removed /add
add x y = x + y
--}
```

Literal Operation

```
True && not (True || False)
(2 + 4) * (4^2 - 9)
"abc" ++ "def"
```

List

```
[1..4]
[1,2,3,4]
1 :: [2,3,4]
1 :: 2 :: 3 :: 4 :: []
```

Conditionals

```
if powerLevel > 9000 then "OVER 9000!!!" else
"meh"
--Multi-way if-expressions
if | key == 40 -> n+1
   | key == 38 -> n-1
   | otherwise -> n
--conditional behavior based on the structure of
algebraic data types:
case maybe of
  Just xs -> xs
  Nothing -> []
case xs of
  hd::tl -> Just (hd,tl)
  [] -> Nothing
case n of
  0 -> 1
  1 -> 1
  _ -> fib (n-1) + fib (n-2)
```



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