- ghc, an optimized compiler for generating native code.
- ghci, an interactive interpreter and debugger.
- runghe, a program for running Haskell programs as scripts

without compilation.

:?

ghci starts with Prelude>, being the standard pre-loaded library, and grows longer with each new loaded module or file.

The prompt can be changed with:

:set prompt NEWPROMPT

Add: :module + NewModule
Remove: module - NewModule

The abbreviation: m also works.

Use parens to get desired association:

```
ghci> (+) 3 5
8
ghci> (^) 3 5
243
```

You nearly always need to surround the negative number with parens to get the desired association.

- The Boolean literals are True and False. Their type is Bool.
- Numbers and other types are not coerced into Boolean interpretations.

- Haskell uses /= for "not equal", instead of !=.
- Haskell uses not for "not", instead of !.

:info funchame

Use let.

let meaningOfLife = 42

^ for integer exponents.

** for floating point exponents.

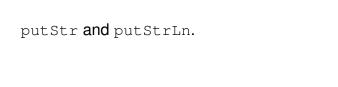
They are homogeneous and use the common bracket

notation. Final commas are not allowed.

```
ghci> [1..5]
[1,2,3,4,5]
```

ghci> ['a'..'j']

"abcdefghij"



A list of characters. [Char] and String are synonyms.

```
ghci> let lst = ['h', 'i']
ghci> lst
```

```
ghci> lst
"hi"
ghci> "" == []
```

True qhci>

Using list operations.

```
ghci> 'a':"bc"
"abc"
ghci> "foo" ++ "bar"
"foobar"
```

:set +t

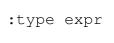
:unset +t

A special variable where ghci stores the last expression it returned.

The size of an Integer is bounded only by the computer's memory.

Use the % operator.

```
ghci> 11 % 29
11%29
it :: Ratio Integer
```



Lines beginning with -- are comments.