

```
c(module.erl) .
```

Now that module's functions can be accessed with:

```
module:func
```

```
-module(filename) .
```

... for a program defined in filename.erl.

```
-import(filename, [func1/arity1, ..., funcN/arityN]).
```

`-export(filename, [func1/arity1, ..., funcN/arityN]).`

or

`-compile(export_all).`

Similar to Prolog, and Haskell, functions and atoms begin with a lower case, variables begin with a capital letter or an underscore.

An atom is a word that stands for itself.

It begins with a lowercase letter or is enclosed in single quotes.

Integers, floats, strings, atoms, lists, tuples, binaries.

Lists are enclosed in square brackets, tuples in curly brackets, and binaries in double angle brackets.

They don't short-circuit by default. For short-circuiting you have `andalso` `and` `orelse`.

\geq and \leq .

not \leq .

`==` equal to

`/=` not equal to

`===` exactly equal to

`!==` not exactly equal to

The non-exact versions will coerce its into floats. Otherwise use exact versions to give better hints to the compiler.

Pattern matching, not assignment. "Assignment" is just a simple case of pattern matching.

```
case Expression of
  Pattern1 when Guard1 -> Expression_sequence1;
  ...
  PatternN when GuardN -> Expression_sequenceN
```

A sequence of expressions separated by commas.

The value of the last expression evaluated.

```
if
    Guard1 -> Expression_sequence1;
    ...
    Guard2 -> Expression_sequence2
end
```

An error will be returned.

One can use the `true` atom as the final guard, although it is usually better to use something more explicit than `true` when possible.

To enforce no-side-effects, they cannot be user-defined.

You can use type tests, many operators, and a number of built-in functions.

`length(List)`

`size(Tuple)`

```
name (Patterns1) -> Expression_sequence1;  
...  
name (PatternsN) -> Expression_sequenceN.
```

```
fun (Patterns1) -> Body1;  
    (Patterns2) -> Body2;  
    ...  
    (PatternsN) -> BodyN  
end
```

They are often used as parameters to other functions.

```
[Expression || Generator, GuardOrGenerator, ..., GuardOrGenerator]
```

The expression typically makes use of variables defined by a generator.

Guards are simply boolean expressions.

Generators are of the form `El <- List`.

```
[X * 2 || X <- [1, 2, 3, 4]]
```

hd (**head**), tl (**tail**), length

```
lists:seq(From, To)
```

Note: `To` is inclusive, unlike in Scala/Python/etc


```
Line = io:get_line(Prompt).
```

```
io:format(FormatString, ListOfData).
```

```
{ok, Stream} = file:open(FileName, write),  
io:format(S, FormatString, ListOfData),  
file:close(S).
```

`~s` a string

`~w` a value in its standard syntax (e.g., strings as lists of integers)

`~p` a value, pretty printed (e.g., strings with quotes around them)

`~n` or `\n` newline

`%` causes the rest of the line to be discarded.