Lists

iex> list = [1, 2, 3]	[1, 2, 3]
iex> [a, b, c] = list	[1, 2, 3]

The pin operator

iex> a = 1 #=> 1
iex> [^a, 2, 3] = [1, 2, 3] #=> [1, 2, 3]
iex> a = 2 #=> 2
iex> [^a, 2] = [1, 2]#=> ** (MatchError) no match ...

Value types

Integers	1234 / 0xcafe / 0o765 / 0b1010 / 1_000_000
Floating--point numbers	1.0 / 0.2456 / 0.314159e1 / 314159.0e-5
Atoms	:fred: / is_binary? / :var@2 / :<> / :=== / :"func/3" / :"long john silver"
Ranges	start..end / 1..9
Regular expressions	r{regexp} / r{regexp}opts / ~r/.../

Ignoring a value with _

iex> [1, _, _] = [1, 2, 3]	[1, 2, 3]
iex> [1, _, _] = [1, "cat", "-dog"]	[1, "cat", "-dog"]

System types

PIDs and ports	The PID of the current process is available by calling **self**. A new PID is created when we spawn a new process.
References	The function **make_ref** creates a globally unique reference. No other reference will be equal to it.

List operators

iex> [1,2,3]++[4,5,6]	[1, 2, 3, 4, 5, 6]
iex> [1, 2, 3, 4] -- [2, 4]	[1, 3]
iex> 1 in [1,2,3,4]	true

Variable binding

iex> [a, a] = [1, 1] # => [1, 1]
iex> [b, b] = [1, 2] # => ** (MatchError) no match ...
iex> a = 1 # => 1
iex> [1, a, 3] = [1, 2, 3] # => [1, 2, 3]
iex> a # => 2

Tuples

{ 1, 2 } / {ok, 42, "next"} / {:error, :none}

iex> {status, count, action} = {:ok, 42, "next"} #=> {:ok, 42, "next"}
iex> status #=> :ok
iex> count #=> 42

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