

Pattern matching:

```
iex(4)> person = {"John", 25}
person = {"John", 25}
 "John", 25}
iex(5)> {name, age} = person
{name, age} = person
{"John", 25}
iex(6)> {name, age} = {"John", 25}
{name, age} = {"John", 25}
{"John", 25}
iex(7)> name
name
"John"
iex(8)> age
age
```

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```
iex(11)> {date, time} = :calendar.local_time()
 {date, time} = :calendar.local_time()
 {{2019, 4, 29}, {19, 8, 35}}
  iex(12)> date
 date
 {2019, 4, 29}
(iex(13)> time
  time
 {19, 8, 35}
  iex(14) > {y, m, d} = date
 \{y, m, d\} = date
 {2019, 4, 29}
 iex(15)> {h, min, sec} = time
  {h, min, sec} = time
  {19, 8, 35}
 iex(16)>
```

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```
iex(16)> {a, b} = "Won't match"
\{a, b\} = "Won't match"
```









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```
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```
iex(18)> rectangle = {:rectangle, 10, 20}
rectangle = {:rectangle, 10, 20}
{:rectangle, 10, 20}
iex(19)> {:rectangle, width, height} = rectangle
{:rectangle, width, height} = rectangle
{:rectangle, 10, 20}
iex(20)> {:ok, result}
```



```
iex(20)> {:ok, contents} = File.read("example.txt")
{:ok, contents} = File.read("example.txt")
iex(20)> File.read("example.txt")
File.read("example.txt")
{:error, :enoent}
iex(21)> {:error, reason} = File.read("example.txt")
{:error, reason} = File.read("example.txt")
{:error, :enoent}
iex(22)>
```

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Variables anónimas:



```
iex(22)> {_, time} = :calendar.local_time()
{_, time} = :calendar.local_time()
{{2019, 4, 29}, {19, 18, 35}}
iex(23)> time
time
{19, 18, 35}
iex(24)> {_date, time} = :calendar.local_time()
```

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```
iex(26)> {_, {hour, _, _}} = :calendar.local_time()
{_, {hour, _, _}} = :calendar.local_time()
{{2019, 4, 29}, {19, 21, 14}}
```

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Pin matching: ^



```
iex(29) > x = 10
x = 10
10
iex(30) > {^x, _} = {10, "hello"}
{^x, } = {10, "hello"}
{10, "hello"}
iex(31) > {^x, _} = {11, "hello"}
{^x, _} = {11, "hello"}
```







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```
iex(31)> {x, _} = {11, "hello"}
{x, _} = {11, "hello"}
{11, "hello"}
```

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```
iex(33)>[f, s, t] = [1, 2, 3]
   s, t] = [1, 2, 3]
iex(34)> f
iex(35)> s
iex(36)>t
```

Cons operator: |

```
iex(38)> [head | tail] = [1, 2, 3, 4, 5]
[head \mid tail] = [1, 2, 3, 4, 5]
[1, 2, 3, 4, 5]
iex(39)> head
head
iex(40)> tail
tail
2, 3, 4, 5]
iex(41)> [head | x_] = [1, 2, 3, 4, 5]
```



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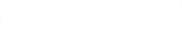
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```
iex(44)> [min | _ ] = Enum.sort([3, 5, 2, 1])
[min | _ ] = Enum.sort([3, 5, 2, 1])
[1, 2, 3, 5]
```











```
iex(46)> %{name: name, age: age} = %{ age: 25, name: "John"}
%{name: name, age: age} = %{    age: 25,    name: "John"}
%{age: 25, name: "John"}
iex(47)> age
age
25
iex(48)> name
name
"John"
iex(49)> %{age: age} = %{name: "John", age: 25}
%{age: age} = %{name: "John", age: 25}
%{age: 25, name: "John"}
```



```
iex(50)> %{ages: age} = %{name: "John", age: 25}
%{ages: age} = %{name: "John", age: 25}
** (MatchError) no match of right hand side value: %{age: 25, name:
    (iex) lib/iex/evaluator.ex:257: IEx.Evaluator.handle_eval/5
```

```
iex(54)> [_, {name, _}, _] = [{"John", 17}, {"Jane", 26}, {"Adam", 3
0}]
[_, {name, _}, _] = [{"John", 17}, {"Jane", 26}, {"Adam", 30}]
[{"John", 17}, {"Jane", 26}, {"Adam", 30}]
iex(55)> name
name
"Jane"
```

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```
iex(56)> a = (b = 1 + 3)
  = (b = 1 + 3)
iex(57)> a
iex(58)> b
iex(59)>
```



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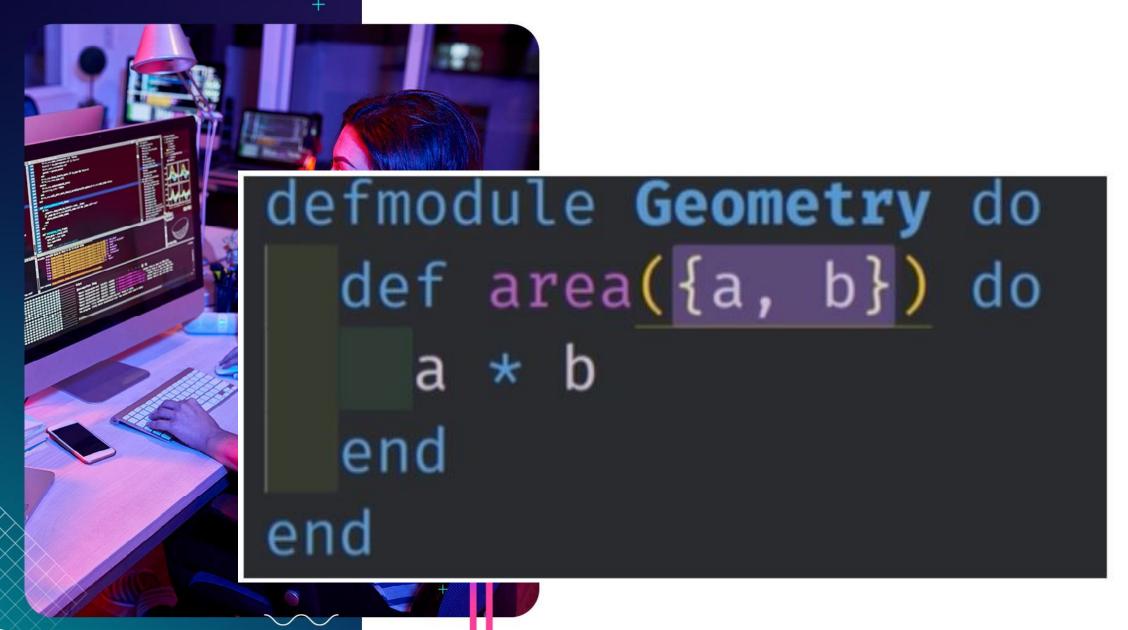
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```
iex(59)> date_time = {_, {hour, _, _}} = :calendar.local_time()
date_time = {_, {hour, _, _}} = :calendar.local_time()
{{2019, 4, 29}, {19, 41, 9}}
iex(60)> date_time
date_time
{{2019, 4, 29}, {19, 41, 9}}
```

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iex(64)> Geometry.area({2, 3})
Geometry.area({2, 3})



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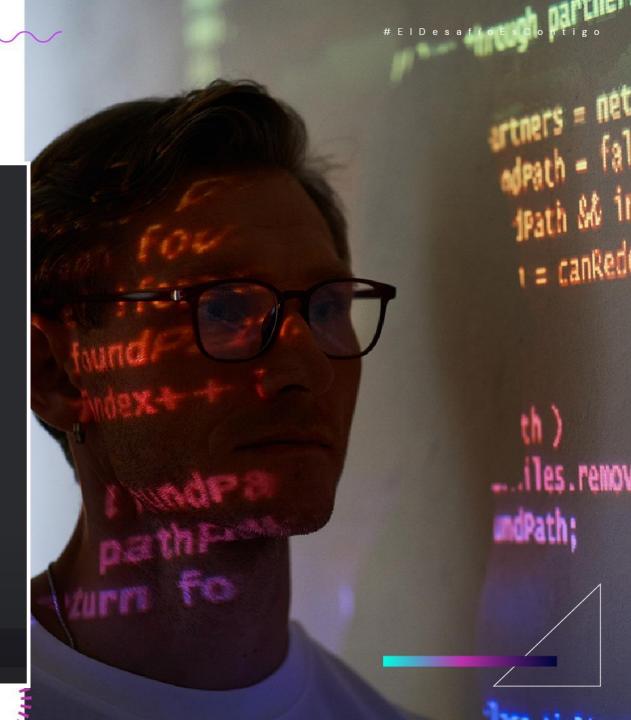
10010110100

</>



Sobrecarga de métodos:

```
defmodule Geometry do
  def area({:rectangle, a, b}) do
    a * b
  end
  def area({:square, a}) do
    a * a
  end
  def area({:circle, r}) do
    r * r * 3.14159
  end
```





```
iex(66)> Geometry.area({:circle, 2})
Geometry.area({:circle, 2})
12.56636
iex(67)> Geometry.area({:square, 20})
Geometry.area({:square, 20})
400
iex(68)> Geometry.area({:rectangle, 20, 30})
Geometry.area({:rectangle, 20, 30})
```





```
iex(69)> Geometry.area({:triangle, 1, 2, 3})
Geometry.area({:triangle, 1, 2, 3})
    The following arguments were given to Geometry.area/1:
        {:triangle, 1, 2, 3}
```

Método por defecto:

def area(unknown) do
 {:error, {:unknown_shape, unknown}}
end



```
iex(70)> Geometry.area({:triangle, 1, 2, 3})
Geometry.area({:triangle, 1, 2, 3})
{:error, {:unknown_shape, {:triangle, 1, 2, 3}}}
```













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