```
iex(2)> colors = %{primary: "red"}
%{primary: "red"}
iex(3)> colors.primary
"red"
iex(4)> colors = %{primary: "red", secondary: "blue"}
%{primary: "red", secondary: "blue"}
iex(5)> colors.primary
"red"
iex(6)> colors.secondary
"blue"
iex(7)> colors.secondary
"blue"
iex(8)> second_color = colors.secondary
"blue"
iex(9)>
```

```
iex(12)> colors = %{primary: "red"}
%{primary: "red"}
iex(13)> colors.primary = "blue"
** (CompileError) iex:13: cannot invoke remote function colors.
primary/0 inside match

iex(13)>
```
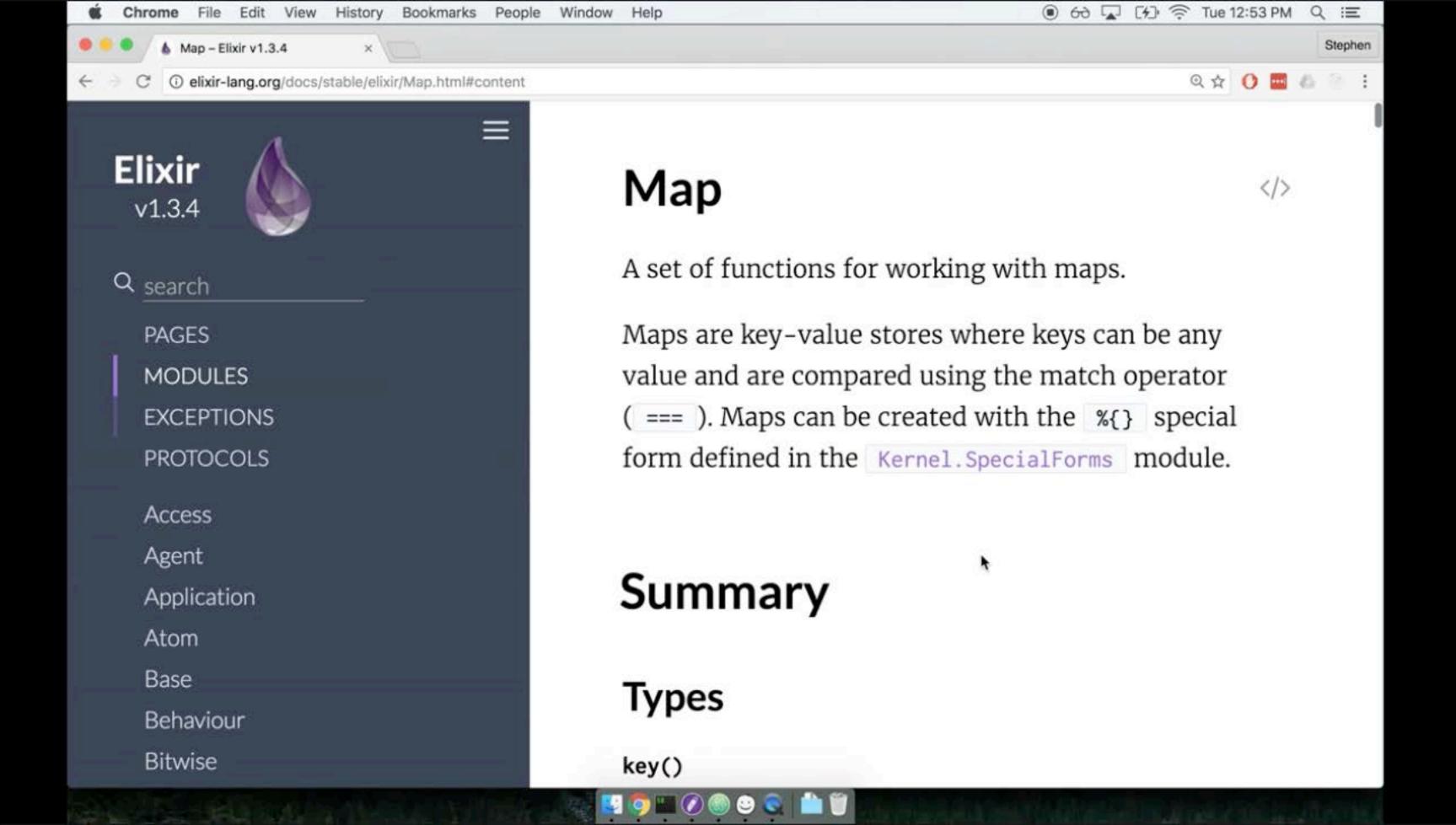
```
iex(12)> colors = %{primary: "red"}
%{primary: "red"}
iex(13)> colors.primary = "blue"
** (CompileError) iex:13: cannot invoke remote function colors.
primary/0 inside match

iex(13)> colors
%{primary: "red"}
iex(14)> Map.put(colors, :primary, "blue")
%{primary: "blue"}
iex(15)> colors
%{primary: "red"}
iex(16)>
```

1. iex (beam.smp)

```
iex(16)> colors
%{primary: "red"}
iex(17)> %{ colors | primary: "blue" }
```

Takes all entries corresponding to the given keys

```
iex(19)> %{ colors | secondary_color: "green" }
** (KeyError) key :secondary_color not found in: %{primary: "re
d"}

    (stdlib) :maps.update(:secondary_color, "green", %{primary:
 "red"})
    (stdlib) erl_eval.erl:255: anonymous fn/2 in :erl_eval.expr
/5
    (stdlib) lists.erl:1263: :lists.foldl/3
iex(19)> Map.put(colors, :secondary_color, "green")
%{primary: "red", secondary_color: "green"}
iex(20)>
```

elixir-lang.org/docs/stable/elixir/Map.html#content

Elixir
v1.3.4

search

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Map

A set of functions for working with maps.

Maps are key-value stores where keys can be any value and are compared using the match operator (`===`). Maps can be created with the `%{}` special form defined in the `Kernel.SpecialForms` module.

Summary

Types

key()

```
iex(21)> colors = [{:primary, "red"}, {:secondary, "green"}]
[primary: "red", secondary: "green"]
iex(22)> colors[:primary]
"red"
iex(23)> colors = [primary: "red", secondary: "blue"]
[primary: "red", secondary: "blue"]
iex(24)> colors = %{ primary: "red", primary: "blue"}
%{primary: "blue"}
iex(25)> colors = [primary: "red", primary: "red"]
[primary: "red", primary: "red"]
iex(26)>
```

```
iex(26)> query = User.find_where([where: user.age > 10, where:
user.subscribed == true])
** (CompileError) iex:26: undefined function user/0
    (stdlib) lists.erl:1354: :lists.mapfoldl/3
    (stdlib) lists.erl:1354: :lists.mapfoldl/3
iex(26)> query = User.find_where(where: user.age > 10, where: u
ser.subscribed == true)
```