

1 The Module resistor_color_duo.pl

color_code(+Color:string, -Code:int)

resistor_color_duo.pl

True if Code is the encoding of Color.

```
:- module(resistor_color_duo, [value/2]).
%! color_code(+Color:string, -Code:int) is semidet.
%
% True if =Code= is the encoding of =Color=.
color_code("black", 0).
color_code("brown", 1).
color_code("red", 2).
color_code("orange", 3).
color_code("yellow", 4).
color_code("green", 5).
color_code("blue", 6).
color_code("violet", 7).
color_code("grey", 8).
color_code("white", 9).
```

value(+Bands:list(string), -Value:int)
--

resistor_color_duo.pl

The encoded Value of the first two Bands of a resistor.

```
%! value(+Bands:list(string), -Value:int) is semidet.
%
% The encoded =Value= of the first two =Bands= of a resistor.
value([Color1, Color2], Value) :-
    color_code(Color1, Code1),
    color_code(Color2, Code2),
    Value is 10 * Code1 + Code2,
    !.
value([Color1, Color2|_], Value) :-
    value([Color1, Color2], Value).
```