

# Converting Colors

$Y_{xy}(91.0000, 0.4126, 0.5106)$

Have a look what the booklet for  
Yxy(91.0000, 0.4126, 0.5106)  
contains.

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# **Color**

**Yxy(90.9325, 0.4124, 0.5108)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | F5FF00                      |
| RGB         | 245, 255, 0                 |
| RGB Percent | 96%, 100%, 0%               |
| CMY         | 0.0392, 0.0000, 1.0000      |
| CMYK        | 0.04, 0.00, 1.00, 0.00      |
| HSL         | 62°, 100%, 50%              |
| HSV         | 62°, 100%, 100%             |
| XYZ         | 73.4154, 90.9325, 13.6719   |
| YIQ         | 222.9400, 75.8950, -81.4250 |

# Conversions

## Conversions Part 2

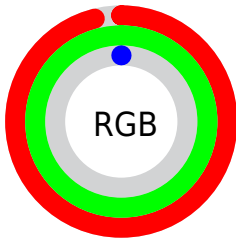
| Format                              | Color                           |
|-------------------------------------|---------------------------------|
| <a href="#">RYB</a>                 | 0, 255, 10                      |
| Decimal                             | 16121600                        |
| CIELab                              | 96.38, -25.65, 93.61            |
| CIElCh                              | 96, 97.061, 105.321             |
| Yxy                                 | 90.9325, 0.4124,<br>0.5108      |
| Android<br>(android.graphics.Color) | 4294311680<br>(0xFFFF5FF0)      |
| YUV                                 | 222.9400, -109.9094,<br>19.3466 |
| Hunter-Lab                          | 95.3585, -29.4525,<br>58.2503   |

# Details

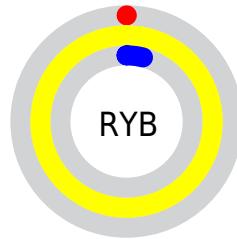
The Yxy color **90.9325, 0.4124, 0.5108** is a light color, and the websafe version is hex **FFFF00**. The color can be described as light saturated yellow. A complement of this color would be **7.2845, 0.1508, 0.0604**, and the grayscale version is **74.5033, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.6245, 0.4002, 0.4736**, and **51.0372, 0.4061, 0.5157** is the 20% darker color. If you saturate the color by 10%, you get **90.9328, 0.4124, 0.5108**, and if you desaturate by 10%, it is **91.1855, 0.4113, 0.5072**.

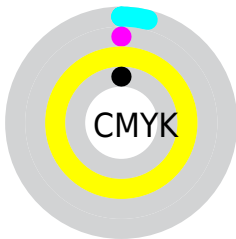
# Distribution



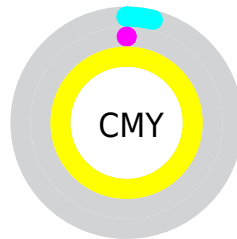
- Red (96%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (4%)



- Cyan (4%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (4%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.9325, 0.4124, 0.5108 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 90.9325, 0.4124, 0.5108 by changing the saturation by 10% instead.





 90.9325, 0.4124,  
0.5108


 90.9325, 0.4124,  
0.5108


531.0596, 0.3786,  
0.4356

 68.7543, 0.4165,  
0.5244

 148.6330, 0.4036,  
0.4875


 50.5116, 0.4197,  
0.5392


 184.9241, 0.3993,  
0.4775


 35.8201, 0.4212,  
0.5549


 226.6883, 0.3953,  
0.4686

 24.2953, 0.4211,  
0.5730

 274.3100, 0.3914,  
0.4606

 15.5528, 0.4130,  
0.5870

 328.1736, 0.3879,  
0.4534

 9.2083, 0.3983,  
0.6017


 388.6634, 0.3845,


 4.8773, 0.3765,


0.4469


0.6235


456.1640, 0.3814,  
0.4410


 2.1754, 0.3408,  
0.6592


 0.7066, 0.0605,  
0.9395


 90.9325, 0.4124,  
0.5108


 90.9325, 0.4124,  
0.5108

 90.9328, 0.4124,  
0.5108

 91.1855, 0.4113,  
0.5072

 91.5335, 0.4080,  
0.4999

 92.0055, 0.4021,  
0.4881


 92.6193, 0.3936,  
0.4720

 93.3896, 0.3827,  
0.4521

 94.3293, 0.3701,  
0.4294

 95.4500, 0.3562,  
0.4048

 96.7624, 0.3416,  
0.3793

 98.2760, 0.3270,  
0.3538

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.9325, 0.4897, 0.4441



90.9325, 0.4124, 0.5108



90.9325, 0.3162, 0.5276

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



90.9325, 0.4124, 0.5108



90.9325, 0.1396, 0.2316



90.9325, 0.3873, 0.2395

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



90.9325, 0.4124, 0.5108



7.2845, 0.1508, 0.0604

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.9325, 0.2774, 0.1957



90.9325, 0.4124, 0.5108



90.9325, 0.1512, 0.1860

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



90.9325, 0.4124, 0.5108



90.9325, 0.1620, 0.3247



90.9325, 0.1960, 0.1766



90.9325, 0.4855, 0.3007



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90.9325, 0.4124, 0.5108



90.9325, 0.2526, 0.4858



90.9325, 0.1960, 0.1766



90.9325, 0.3493, 0.2225

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



90.9328, 0.4124, 0.5108



95.4500, 0.3562, 0.4048



21.4445, 0.6385, 0.3313



20.3242, 0.3621, 0.4153



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



90.9328, 0.4124, 0.5108



75.4419, 0.3308, 0.5755



21.0523, 0.3263, 0.3525



47.5304, 0.4125, 0.5107



4.6387, 0.4133, 0.5100

# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



7.2845, 0.1508, 0.0604



12.4542, 0.2071, 0.0915



17.4117, 0.2984, 0.3044



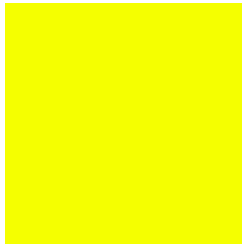
3.8210, 0.1512, 0.0606



0.3835, 0.1539, 0.0621

# Previews

## White Background



This preview shows how the Yxy color 90.9325, 0.4124, 0.5108 looks on a white background.

## Color Contrast Check

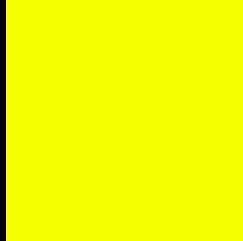
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the Yxy color 90.9325, 0.4124, 0.5108 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 90.9325, 0.4124, 0.5108**

## Background



This preview shows how black text looks on a background with the Yxy color 90.9325, 0.4124, 0.5108.



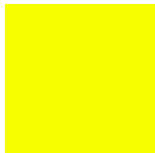
This preview shows how white text looks on a background with the Yxy color 90.9325, 0.4124, 0.5108.



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



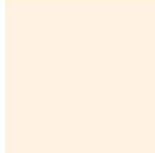
### Original Color

90.9325, 0.4124, 0.5108



### Protanopia

90.3210, 0.3450, 0.3688



### Deuteranopia

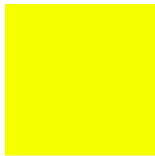
90.3103, 0.3306, 0.3438



## Tritanopia

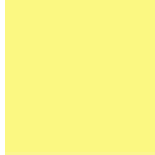
90.5452, 0.3158, 0.3184

# Trichromacy



## Original Color

90.9325, 0.4124, 0.5108



## Protanomaly

89.2557, 0.3852, 0.4443



## Deuteranomaly

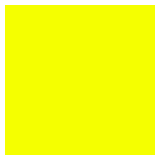
89.0444, 0.3780, 0.4310



## Tritanomaly

88.3521, 0.3694, 0.4142

# Monochromacy



## Original Color

90.9325, 0.4124, 0.5108



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

78.3586, 0.3690, 0.4280

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.9325, 0.4124, 0.5108 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(245, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 255, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(245, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 90.9325, 0.4124, 0.5108 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(245, 255, 0) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(245, 255, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(245, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 90.9325, 0.4124, 0.5108 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 255, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(245,  
255, 0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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