

# Converting Colors

XYZ(20.4908, 8.5719, 90.9348)

Have a look what the booklet for  
XYZ(20.4908, 8.5719, 90.9348)  
contains.

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# Color

**XYZ(20.4798, 8.5644,  
91.0162)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4F00FA
RGB	79, 0, 250
RGB Percent	31%, 0%, 98%
CMY	0.6902, 1.0000, 0.0196
CMYK	0.68, 1.00, 0.00, 0.02
HSL	259°, 100%, 49%
HSV	259°, 100%, 98%
XYZ	20.4798, 8.5644, 91.0162
YIQ	52.1210, -33.1660, 94.4980

# Conversions

## Conversions Part 2

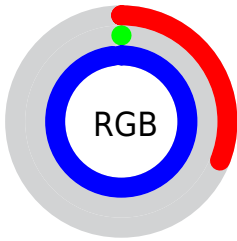
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 0, 250
Decimal	5177594
CIELab	35.13, 79.36, -100.24
CIELCh	35, 127.853, 308.368
Yxy	8.5644, 0.1706, 0.0713
Android (android.graphics.Color)	4283367674 (0xFF4F00FA)
YUV	52.1210, 97.5543, 23.5729
Hunter-Lab	29.2650, 73.7015, -163.9106

# Details

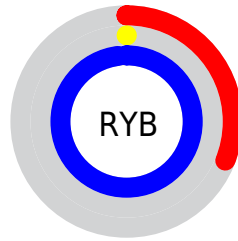
The XYZ color **20.4798, 8.5644, 91.0162** is a dark color, and the websafe version is hex **6600FF**. The color can be described as dark saturated blue. A complement of this color would be **50.9780, 77.0282, 12.1811**, and the grayscale version is **3.1703, 3.3354, 3.6322**.

A 20% lighter version of the original color is **33.3969, 18.9682, 96.5088**, and **9.5144, 3.8058, 50.1023** is the 20% darker color. If you saturate the color by 10%, you get **20.4808, 8.5649, 91.0166**, and if you desaturate by 10%, it is **22.4385, 10.0902, 91.2078**.

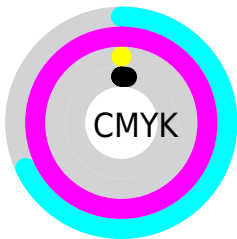
# Distribution



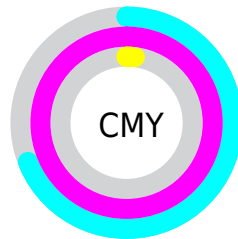
- Red (31%)
- Green (0%)
- Blue (98%)



- Red (31%)
- Yellow (0%)
- Blue (98%)



- Cyan (68%)
- Magenta (100%)
- Yellow (0%)
- Black (2%)




- Cyan (69%)
- Magenta (100%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4798, 8.5644, 91.0162 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 XYZ color 20.4798, 8.5644, 91.0162 by changing the saturation by 10% instead.





 20.4798, 8.5644,  
91.0162


 20.4798, 8.5644,  
91.0162


247.2852,  
180.0942, 551.9862


 12.8546, 4.4582,  
68.2453


 43.7180, 23.0577,  
150.6970

 7.4048, 1.9330,  
49.6294


 60.0617, 34.2135,  
188.4439

 3.7651, 0.5681,  
34.7499


 80.0422, 48.4880,  
232.0200

 1.5701, 0.0000,  
23.1883

 104.0249, 66.2656,  
281.8438

 0.3728, 0.0000,  
14.5260

 132.3753, 87.9306,  
338.3337

 0.0000, 0.0000,  
8.3445


 165.4585,


 0.0000, 0.0000,


113.8674, 401.9084


4.2252


 203.6400,  
144.4605, 472.9864


 0.0000, 0.0000,  
1.7497


 0.0000, 0.0000,  
0.3945


 20.4798, 8.5644,  
91.0162


 20.4798, 8.5644,  
91.0162

 20.4808, 8.5649,  
91.0166

 22.4385, 10.0902,  
91.2078

 25.2330, 12.7079,  
91.5658

 29.0247, 16.7045,  
92.1374

 33.9183, 22.2573,  
92.9512

■ 40.0035, 29.5159,  
94.0316

■ 47.3599, 38.6119,  
95.3995

■ 56.0600, 49.6638,  
97.0742

■ 66.1703, 62.7797,  
99.0730

■ 77.7528, 78.0599,  
101.4119

# Harmonies

## Analogous

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



10.3807, 8.5644, 134.6064



20.4798, 8.5644, 91.0162



29.6868, 8.5644, 33.7038

# Triad

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



20.4798, 8.5644, 91.0162



14.5592, 8.5644, 0.0000



0.6088, 8.5644, 16.5632

# Complementary

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



20.4798, 8.5644, 91.0162



50.9780, 77.0282, 12.1811

# 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.



0.7954, 8.5644, 0.9395



20.4798, 8.5644, 91.0162



6.2478, 8.5644, 0.0000

# Square

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



20.4798, 8.5644, 91.0162



25.0653, 8.5644, 0.0000



2.1331, 8.5644, 0.0000



1.3189, 8.5644, 63.9808



# Rectangle

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



20.4798, 8.5644, 91.0162



32.0998, 8.5644, 10.5293



2.1331, 8.5644, 0.0000



0.5768, 8.5644, 8.2165

# Sweetspot

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



20.4808, 8.5649, 91.0166



58.6109, 51.9114, 101.5385



32.5854, 37.5622, 95.9756



11.6857, 10.0124, 21.5666



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



20.4808, 8.5649, 91.0166



21.4084, 8.9513, 95.2072



41.0749, 19.1816, 91.9804



16.7993, 16.9091, 21.7637



10.9944, 4.6105, 48.2840



1.1230, 0.4810, 4.4768



# Inverse Universe

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



46.7742, 23.2639, 40.5479



48.9199, 24.3320, 42.3719



35.5011, 69.0496, 11.4568



17.7459, 17.4257, 20.5177



24.8785, 12.3671, 21.8665

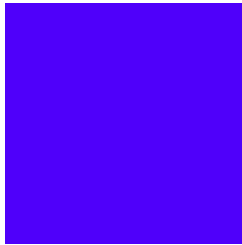


2.3522, 1.1646, 2.2780



# Previews

## White Background



This preview shows how the XYZ color 20.4798, 8.5644, 91.0162 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

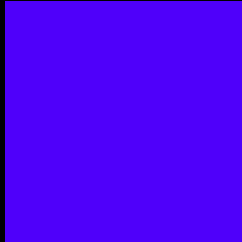
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 20.4798, 8.5644, 91.0162 looks on a black 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

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

**XYZ 20.4798, 8.5644, 91.0162**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.4798, 8.5644, 91.0162.



This preview shows how white text looks on a background with the XYZ color 20.4798, 8.5644,



# 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

20.4798, 8.5644, 91.0162

### Protanopia

10.1039, 8.7494, 38.6924

### Deuteranopia

8.3618, 8.6692, 27.6182



## Tritanopia

6.1190, 8.7105, 12.9141

# Trichromacy



## Original Color

20.4798, 8.5644, 91.0162

## Protanomaly

11.9277, 6.7944, 54.1089

## Deuteranomaly

10.4201, 6.4125, 45.4883

## Tritanomaly

7.8204, 5.6890, 30.8229

# Monochromacy



## Original Color

20.4798, 8.5644, 91.0162

## Achromatopsia

3.2640, 3.4340, 3.7396

## Achromatomaly

6.1686, 3.5671, 19.4322

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.4798, 8.5644, 91.0162 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(79, 0, 250)` looks like.

```
.text, #text, p{  
    color:rgb(79, 0, 250)  
}
```

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(79, 0, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(79, 0, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 20.4798, 8.5644, 91.0162 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(79, 0, 250) }
```



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

```
.border{ border-color:rgb(79, 0, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(79, 0, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(79, 0, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(79, 0, 250);  
box-shadow:4px 4px 4px 4px rgb(79, 0, 250)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 20.4798, 8.5644, 91.0162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(79, 0, 250) }
```

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

```
.background{ background-color: rgb(79, 0,  
250) }
```

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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