

# Converting Colors

XYZ(51.0784, 24.6714, 77.4134)

Have a look what the booklet for  
XYZ(51.0784, 24.6714, 77.4134)  
contains.

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# Color

**XYZ(51.0418, 24.6468,  
77.6684)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F200E7
RGB	242, 0, 231
RGB Percent	95%, 0%, 91%
CMY	0.0510, 0.9998, 0.0941
CMYK	0.00, 1.00, 0.05, 0.05
HSL	303°, 100%, 47%
HSV	303°, 100%, 95%
XYZ	51.0418, 24.6468, 77.6684
YIQ	98.6920, 70.0810, 123.1450

# Conversions

## Conversions Part 2

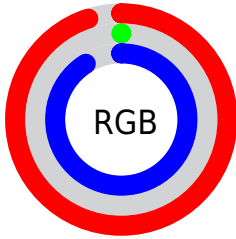
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 0, 231
Decimal	15859943
CIE <sub>Lab</sub>	56.73, 92.92, -53.30
CIE <sub>LCh</sub>	57, 107.125, 330.159
Yxy	24.6468, 0.3328, 0.1607
Android (android.graphics.Color)	4294050023 (0xFFFF200E7)
YUV	98.6920, 65.2278, 125.6811
Hunter-Lab	49.6455, 96.6405, -58.0049

# Details

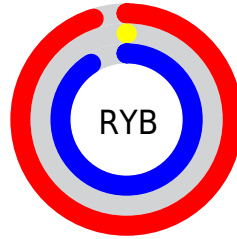
The XYZ color **51.0418, 24.6468, 77.6684** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **31.8138, 63.5297, 10.9036**, and the grayscale version is **11.6182, 12.2233, 13.3111**.

A 20% lighter version of the original color is **64.0414, 37.9827, 98.5638**, and **26.7939, 12.9189, 41.6388** is the 20% darker color. If you saturate the color by 10%, you get **51.0420, 24.6469, 77.6673**, and if you desaturate by 10%, it is **51.5299, 25.3728, 78.6004**.

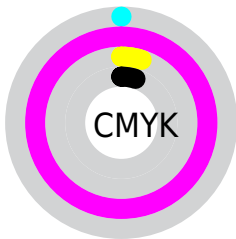
# Distribution



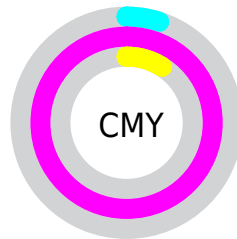
- Red (95%)
- Green (0%)
- Blue (91%)



- Red (95%)
- Yellow (0%)
- Blue (91%)



- Cyan (0%)
- Magenta (100%)
- Yellow (5%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.0418, 24.6468, 77.6684 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 51.0418, 24.6468, 77.6684 by changing the saturation by 10% instead.




 51.0418, 24.6468,  
77.6684


 51.0418, 24.6468,  
77.6684

381.1112,  
276.0744, 506.5380

 36.4631, 15.8141,  
57.2868

 90.8992, 51.0836,  
131.8642


 24.9638, 9.3927,  
40.8246


 116.9085, 69.4566,  
166.5154

 16.1787, 4.9982,  
27.8634

 147.4588, 91.7784,  
206.7603

 9.7423, 2.2462,  
17.9846

 182.9153,  
118.4335, 253.0173

 5.2894, 0.7450,  
10.7696

 223.6434,  
149.8062, 305.7051

 2.4545, 0.0000,  
5.7999

270.0086,

 0.8724, 0.0000,

186.2810, 365.2421

2.6570

322.3760,  
228.2423, 432.0469

■ 0.0000, 0.0000,  
0.9217

■ 0.0000, 0.0000,  
0.0000

■ 51.0418, 24.6468,  
77.6684

■ 51.0418, 24.6468,  
77.6684

■ 51.0420, 24.6469,  
77.6673

■ 51.5299, 25.3728,  
78.6004

■ 52.4303, 26.9225,  
79.6746

■ 53.8723, 29.5537,  
80.9341

■ 55.9322, 33.4194,  
82.4045

■ 58.6745, 38.6482,  
84.1071

■ 62.1554, 45.3526,  
86.0608

■ 66.4252, 53.6334,  
88.2824

■ 71.5300, 63.5824,  
90.7872

■ 77.5122, 75.2847,  
93.5893

# Harmonies

## Analogous

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



37.6814, 24.6468, 141.0444



51.0418, 24.6468, 77.6684



56.5823, 24.6468, 26.6453

# Triad

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



51.0418, 24.6468, 77.6684



23.3593, 24.6468, 0.0000



8.1925, 24.6468, 78.3434

# Complementary

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



51.0418, 24.6468, 77.6684



31.8138, 63.5297, 10.9036

# 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.



6.6825, 24.6468, 27.0280



51.0418, 24.6468, 77.6684



13.3135, 24.6468, 0.3626

# Square

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



51.0418, 24.6468, 77.6684



37.5228, 24.6468, 0.3418



8.1594, 24.6468, 5.0995



13.3930, 24.6468, 141.6235



# Rectangle

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



51.0418, 24.6468, 77.6684



53.9751, 24.6468, 9.4268



8.1594, 24.6468, 5.0995



7.3405, 24.6468, 58.2028

# Sweetspot

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



51.0428, 24.6480, 77.6689



74.7550, 60.2981, 99.3973



16.1292, 6.4641, 84.4032



15.5424, 12.0162, 21.0409



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.



51.0428, 24.6480, 77.6689



57.4791, 27.7556, 87.4437



39.5971, 20.0697, 17.3969



16.4214, 16.0183, 19.7753



27.4341, 13.2461, 41.7983



2.2918, 1.1058, 3.5274



# Inverse Universe

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



51.0428, 24.6480, 77.6689



57.4791, 27.7556, 87.4437



35.7214, 65.0927, 31.4808



16.4214, 16.0183, 19.7753



27.4341, 13.2461, 41.7983



2.2918, 1.1058, 3.5274



# Previews

## White Background



This preview shows how the XYZ color 51.0418, 24.6468, 77.6684 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

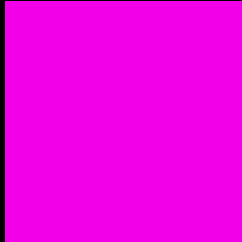
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.0418, 24.6468, 77.6684 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

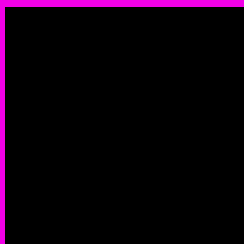
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 51.0418, 24.6468, 77.6684**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.0418, 24.6468, 77.6684.



This preview shows how white text looks on a background with the XYZ color 51.0418, 24.6468,



# 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

51.0418, 24.6468, 77.6684

### Protanopia

29.1736, 25.6098, 98.0133

### Deuteranopia

25.9842, 25.2282, 69.1457



## Tritanopia

37.8937, 24.8392, 14.1065

# Trichromacy



## Original Color

51.0418, 24.6468, 77.6684



## Protanomaly

29.5559, 18.1374, 89.1319



## Deuteranomaly

28.6256, 18.2934, 71.1295



## Tritanomaly

40.3056, 22.4251, 29.3983

# Monochromacy



## Original Color

51.0418, 24.6468, 77.6684



## Achromatopsia

11.8596, 12.4772, 13.5877



## Achromatomaly

19.8065, 12.2409, 28.9226

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.0418, 24.6468, 77.6684 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(242, 0, 231)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 231)  
}
```

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(242, 0, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 51.0418, 24.6468, 77.6684 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(242, 0, 231) }
```



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

```
.border{ border-color:rgb(242, 0, 231) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 231);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.0418, 24.6468, 77.6684 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 231) }
```

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

```
.background{ background-color: rgb(242, 0,  
231) }
```

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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