

# Converting Colors

XYZ(50.2691, 24.1029, 84.2075)

Have a look what the booklet for  
XYZ(50.2691, 24.1029, 84.2075)  
contains.

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# Color

**XYZ(50.3202, 24.1241,  
84.4423)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC00F0
RGB	236, 0, 240
RGB Percent	93%, 0%, 94%
CMY	0.0745, 0.9999, 0.0588
CMYK	0.02, 1.00, 0.00, 0.06
HSL	299°, 100%, 47%
HSV	299°, 100%, 94%
XYZ	50.3202, 24.1241, 84.4423
YIQ	97.9240, 63.6160, 124.6720

# Conversions

## Conversions Part 2

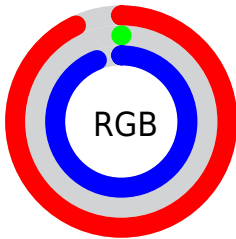
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 0, 240
Decimal	15466736
CIE Lab	56.21, 93.23, -59.25
CIE LCh	56, 110.463, 327.564
Yxy	24.1241, 0.3167, 0.1518
Android (android.graphics.Color)	4293656816 (0xFFEC00F0)
YUV	97.9240, 70.0435, 121.0927
Hunter-Lab	49.1163, 96.9218, -67.5519

# Details

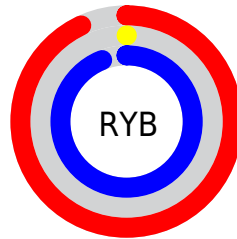
The XYZ color **50.3202, 24.1241, 84.4423** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **31.2109, 62.3465, 10.3901**, and the grayscale version is **11.4167, 12.0113, 13.0803**.

A 20% lighter version of the original color is **63.9437, 37.7874, 98.5312**, and **26.2264, 12.5329, 45.8365** is the 20% darker color. If you saturate the color by 10%, you get **50.3206, 24.1243, 84.4426**, and if you desaturate by 10%, it is **50.7812, 24.8477, 84.5580**.

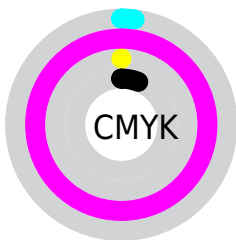
# Distribution



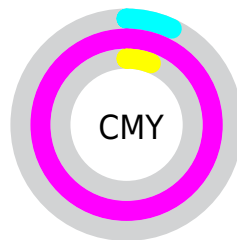
- Red (93%)
- Green (0%)
- Blue (94%)



- Red (93%)
- Yellow (0%)
- Blue (94%)



- Cyan (2%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)




- Cyan (7%)
- Magenta (100%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.3202, 24.1241, 84.4423 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 50.3202, 24.1241, 84.4423 by changing the saturation by 10% instead.





 50.3202, 24.1241,  
84.4423


 50.3202, 24.1241,  
84.4423

378.3481,  
273.4473, 529.8772


 35.8867, 15.4257,  
62.8332


 89.8381, 50.2326,  
141.4610


 24.5164, 9.1187,  
45.2661


 115.6532, 68.4116,  
177.7076


 15.8440, 4.8187,  
31.3226


 145.9930, 90.5195,  
219.6704

 9.5039, 2.1413,  
20.5841

 181.2227,  
116.9407, 267.7681

 5.1310, 0.6877,  
12.6321

 221.7077,  
148.0597, 322.4190

 2.3599, 0.0000,  
7.0480

267.8134,

 0.8251, 0.0000,

184.2609, 384.0418

3.4132

319.9051,  
225.9286, 453.0551

■ 0.0000, 0.0000,  
1.3093

■ 0.0000, 0.0000,  
0.0694

■ 50.3202, 24.1241,  
84.4423

■ 50.3202, 24.1241,  
84.4423

■ 50.3206, 24.1243,  
84.4426

■ 50.7812, 24.8477,  
84.5580

■ 51.6455, 26.3785,  
84.8079

■ 53.0403, 28.9699,  
85.2346

■ 55.0406, 32.7719,  
85.8630

■ 57.7094, 37.9104,  
86.7142

■ 61.1018, 44.4955,  
87.8065

■ 65.2671, 52.6262,  
89.1563

■ 70.2504, 62.3924,  
90.7787

■ 76.0934, 73.8773,  
92.6876

# Harmonies

## Analogous

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



36.1822, 24.1241, 149.7747



50.3202, 24.1241, 84.4423



56.9894, 24.1241, 29.3525

# Triad

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



50.3202, 24.1241, 84.4423



23.9827, 24.1241, 0.0000



7.3825, 24.1241, 73.7186

# Complementary

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



50.3202, 24.1241, 84.4423



31.2109, 62.3465, 10.3901

# 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.



6.1650, 24.1241, 23.4057



50.3202, 24.1241, 84.4423



13.3864, 24.1241, 0.0000

# Square

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



50.3202, 24.1241, 84.4423



38.6735, 24.1241, 0.2578



7.8808, 24.1241, 3.7819



12.1697, 24.1241, 140.4879



# Rectangle

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



50.3202, 24.1241, 84.4423



54.9662, 24.1241, 10.3137



7.8808, 24.1241, 3.7819



6.6417, 24.1241, 53.5176

# Sweetspot

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



50.3212, 24.1252, 84.4428



74.8426, 60.2791, 102.2981



15.7725, 6.3791, 82.8384



15.5637, 12.0115, 21.7481



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.



50.3212, 24.1252, 84.4428



57.7439, 27.6829, 96.9076



39.5749, 19.9818, 20.8457



16.4267, 16.0172, 19.9475



27.5583, 13.2122, 46.2256



2.3009, 1.1034, 3.8459



# Inverse Universe

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



35.9578, 18.5350, 1.7983



41.2633, 21.2693, 2.0526



34.3141, 63.5820, 26.9928



15.7835, 15.7631, 16.4161



19.6882, 10.1477, 1.0089



1.6416, 0.8457, 0.1036



# Previews

## White Background



This preview shows how the XYZ color 50.3202, 24.1241, 84.4423 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

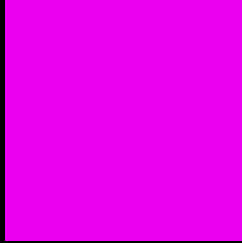
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.3202, 24.1241, 84.4423 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 50.3202, 24.1241, 84.4423**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.3202, 24.1241, 84.4423.



This preview shows how white text looks on a background with the XYZ color 50.3202, 24.1241,

84.4423.

# 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

50.3202, 24.1241, 84.4423

### Protanopia

28.6160, 24.9158, 97.9087

### Deuteranopia

25.7337, 24.9601, 75.4130



## Tritanopia

36.1217, 24.2977, 14.8427

# Trichromacy



## Original Color

50.3202, 24.1241, 84.4423



## Protanomaly

29.3277, 17.8320, 92.3387



## Deuteranomaly

27.8237, 17.7368, 77.5584



## Tritanomaly

38.5658, 21.6348, 31.4215

# Monochromacy



## Original Color

50.3202, 24.1241, 84.4423



## Achromatopsia

11.6093, 12.2139, 13.3009



## Achromatomaly

19.4404, 11.9432, 30.1348

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.3202, 24.1241, 84.4423 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(236, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(236, 0, 240)  
}
```

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(236, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 0, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 50.3202, 24.1241, 84.4423 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(236, 0, 240) }
```



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

```
.border{ border-color:rgb(236, 0, 240) }
```

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

Here you see how a box with a 4 pixel rgb(236, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(236, 0,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.3202, 24.1241, 84.4423 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 0, 240) }
```

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

```
.background{ background-color: rgb(236, 0,  
240) }
```

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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