

# Converting Colors

XYZ(48.4984, 23.3419, 77.2652)

Have a look what the booklet for  
XYZ(48.4984, 23.3419, 77.2652)  
contains.

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# Color

**XYZ(48.6848, 23.4317,  
77.5581)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EB00E7
RGB	235, 0, 231
RGB Percent	92%, 0%, 91%
CMY	0.0784, 0.9999, 0.0941
CMYK	0.00, 1.00, 0.02, 0.08
HSL	301°, 100%, 46%
HSV	301°, 100%, 92%
XYZ	48.6848, 23.4317, 77.5581
YIQ	96.5990, 65.9090, 121.6610

# Conversions

## Conversions Part 2

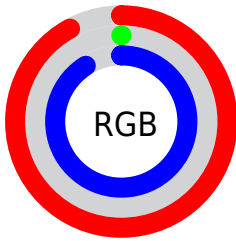
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	235, 0, 231
Decimal	15401191
CIE <sub>Lab</sub>	55.51, 91.81, -55.32
CIE <sub>LCh</sub>	56, 107.182, 328.930
Yxy	23.4317, 0.3253, 0.1566
Android (android.graphics.Color)	4293591271 (0xFFEB00E7)
YUV	96.5990, 66.2597, 121.3777
Hunter-Lab	48.4063, 94.8159, -61.1119

# Details

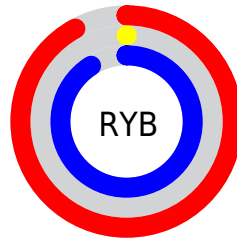
The XYZ color **48.6848, 23.4317, 77.5581** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **29.7314, 59.4267, 10.0195**, and the grayscale version is **11.1018, 11.6799, 12.7194**.

A 20% lighter version of the original color is **63.8472, 37.5943, 98.4991**, and **25.1934, 12.0938, 41.5639** is the 20% darker color. If you saturate the color by 10%, you get **48.6853, 23.4320, 77.5579**, and if you desaturate by 10%, it is **49.0591, 24.0890, 77.9622**.

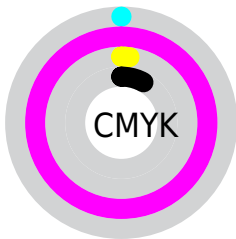
# Distribution



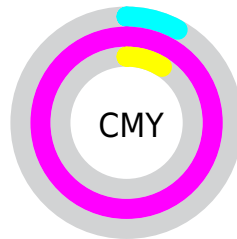
- Red (92%)
- Green (0%)
- Blue (91%)



- Red (92%)
- Yellow (0%)
- Blue (91%)



- Cyan (0%)
- Magenta (100%)
- Yellow (2%)
- Black (8%)




- Cyan (8%)
- Magenta (100%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6848, 23.4317, 77.5581 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 48.6848, 23.4317, 77.5581 by changing the saturation by 10% instead.



 48.6848, 23.4317,  
77.5581

 48.6848, 23.4317,  
77.5581


372.0377,  
269.9346, 506.1529


 34.5830, 14.9126,  
57.1968


 87.4267, 49.1012,  
131.7072

 23.5068, 8.7581,  
40.7528


 112.7975, 67.0204,  
166.3320


 15.0910, 4.5837,  
27.8077


 142.6553, 88.8418,  
206.5484

 8.9700, 2.0052,  
17.9430

 177.3656,  
114.9497, 252.7749

 4.7786, 0.6105,  
10.7401

 217.2936,  
145.7285, 305.4301

 2.1513, 0.0000,  
5.7804

262.8047,

 0.7169, 0.0000,

181.5627, 364.9324

2.6454

314.2643,  
222.8366, 431.7005

■ 0.0000, 0.0000,  
0.9157

■ 0.0000, 0.0000,  
0.0000

■ 48.6848, 23.4317,  
77.5581

■ 48.6848, 23.4317,  
77.5581

■ 48.6853, 23.4320,  
77.5579

■ 49.0591, 24.0890,  
77.9622

■ 49.8167, 25.5134,  
78.4946

■ 51.0795, 27.9480,  
79.1960

■ 52.9186, 31.5351,  
80.0902

■ 55.3939, 36.3941,  
81.1970

■ 58.5575, 42.6297,  
82.5339

■ 62.4564, 50.3357,  
84.1166

■ 67.1333, 59.5976,  
85.9592

■ 72.6279, 70.4945,  
88.0751

# Harmonies

## Analogous

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



35.5056, 23.4317, 139.2819



48.6848, 23.4317, 77.5581



54.5097, 23.4317, 26.7758

# Triad

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



48.6848, 23.4317, 77.5581



22.7077, 23.4317, 0.0000



7.4984, 23.4317, 73.1296

# Complementary

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



48.6848, 23.4317, 77.5581



29.7314, 59.4267, 10.0195

# 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.



6.1828, 23.4317, 24.2908



48.6848, 23.4317, 77.5581



12.8173, 23.4317, 0.1333

# Square

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



48.6848, 23.4317, 77.5581



36.5408, 23.4317, 0.2733



7.7103, 23.4317, 4.2768



12.3044, 23.4317, 135.4655



# Rectangle

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



48.6848, 23.4317, 77.5581



52.2666, 23.4317, 9.4434



7.7103, 23.4317, 4.2768



6.7312, 23.4317, 53.7569

# Sweetspot

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



48.6858, 23.4328, 77.5586



75.1010, 60.4365, 101.2191



15.0455, 6.0246, 78.9684



15.6267, 12.0499, 21.4848



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.



48.6858, 23.4328, 77.5586



58.5986, 28.2035, 93.3394



37.2766, 18.8692, 17.4789



15.7031, 15.3091, 18.9878



27.1003, 13.0428, 43.1912



2.1316, 1.0256, 3.4103



# Inverse Universe

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



48.6858, 23.4328, 77.5586



58.5986, 28.2035, 93.3394



33.1872, 60.8090, 28.2177



15.7031, 15.3091, 18.9878



27.1003, 13.0428, 43.1912



2.1316, 1.0256, 3.4103



# Previews

## White Background



This preview shows how the XYZ color 48.6848, 23.4317, 77.5581 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

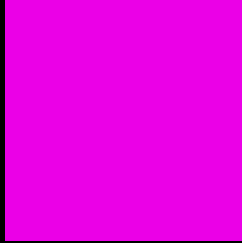
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 48.6848, 23.4317, 77.5581 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

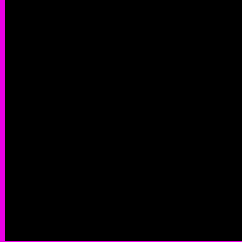
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 48.6848, 23.4317, 77.5581**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6848, 23.4317, 77.5581.



This preview shows how white text looks on a background with the XYZ color 48.6848, 23.4317,



# 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

48.6848, 23.4317, 77.5581

### Protanopia

28.0192, 24.2094, 97.8038

### Deuteranopia

24.8445, 24.2225, 69.0116



## Tritanopia

35.7175, 23.7174, 14.0047

# Trichromacy



## Original Color

48.6848, 23.4317, 77.5581



## Protanomaly

28.1853, 17.2003, 89.0232



## Deuteranomaly

27.1601, 17.4185, 71.0378



## Tritanomaly

38.0654, 21.2702, 29.2934

# Monochromacy



## Original Color

48.6848, 23.4317, 77.5581



## Achromatopsia

11.3621, 11.9538, 13.0177



## Achromatomaly

18.9436, 11.7236, 28.4586

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6848, 23.4317, 77.5581 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(235, 0, 231)` looks like.

```
.text, #text, p{  
    color:rgb(235, 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(235, 0, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 0, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6848, 23.4317, 77.5581 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(235, 0, 231) }
```



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

```
.border{ border-color:rgb(235, 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(235, 0, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 0, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 0, 231);  
box-shadow:4px 4px 4px 4px rgb(235, 0,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6848, 23.4317, 77.5581 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 0, 231) }
```

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

```
.background{ background-color: rgb(235, 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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