

# Converting Colors

XYZ(48.7857, 23.2501, 88.1430)

Have a look what the booklet for  
XYZ(48.7857, 23.2501, 88.1430)  
contains.

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# Color

**XYZ(48.7945, 23.2506,  
88.3023)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E500F5
RGB	229, 0, 245
RGB Percent	90%, 0%, 96%
CMY	0.1020, 0.9999, 0.0392
CMYK	0.07, 1.00, 0.00, 0.04
HSL	296°, 100%, 48%
HSV	296°, 100%, 96%
XYZ	48.7945, 23.2506, 88.3023
YIQ	96.4010, 57.8390, 124.7430

# Conversions

## Conversions Part 2

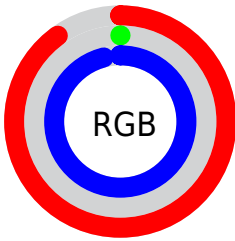
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 0, 245
Decimal	15007989
CIE Lab	55.33, 92.90, -63.53
CIE LCh	55, 112.546, 325.635
Yxy	23.2506, 0.3043, 0.1450
Android (android.graphics.Color)	4293198069 (0xFFE500F5)
YUV	96.4010, 73.2593, 116.2893
Hunter-Lab	48.2189, 96.2479, -74.8234

# Details

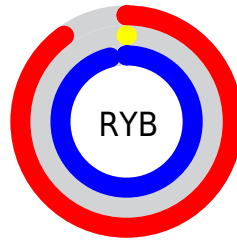
The XYZ color **48.7945, 23.2506, 88.3023** is a light color, and the websafe version is hex **FF00FF**. The color can be described as light saturated magenta. A complement of this color would be **32.8670, 65.4156, 10.8952**, and the grayscale version is **11.0383, 11.6132, 12.6468**.

A 20% lighter version of the original color is **63.8472, 37.5943, 98.4991**, and **25.2255, 11.9557, 48.5551** is the 20% darker color. If you saturate the color by 10%, you get **48.7944, 23.2505, 88.3026**, and if you desaturate by 10%, it is **49.6459, 24.1908, 88.4392**.

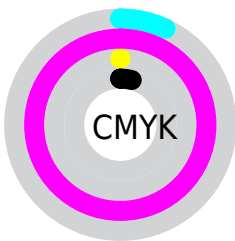
# Distribution



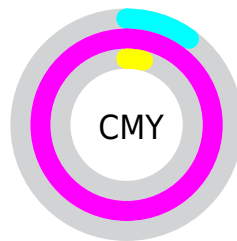
- Red (90%)
- Green (0%)
- Blue (96%)



- Red (90%)
- Yellow (0%)
- Blue (96%)



- Cyan (7%)
- Magenta (100%)
- Yellow (0%)
- Black (4%)



- Cyan (10%)
- Magenta (100%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.7945, 23.2506, 88.3023 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 48.7945, 23.2506, 88.3023 by changing the saturation by 10% instead.



 48.7945, 23.2506,  
88.3023


 48.7945, 23.2506,  
88.3023


372.4631,  
269.0095, 542.9196


 34.6704, 14.7787,  
66.0077


 87.5887, 48.8045,  
146.8928


 23.5744, 8.6642,  
47.8221


 112.9895, 66.6552,  
184.0257

 15.1412, 4.5228,  
33.3271


 142.8799, 88.4010,  
226.9419

 9.0055, 1.9701,  
22.1039

 177.6252,  
114.4262, 276.0598

 4.8019, 0.5900,  
13.7342

 217.5909,  
145.1153, 331.7980

 2.1651, 0.0000,  
7.7994

263.1422,

 0.7242, 0.0000,

180.8526, 394.5750

3.8809

314.6445,  
222.0226, 464.8094

■ 0.0000, 0.0000,  
1.5603

■ 0.0000, 0.0000,  
0.2622

■ 48.7945, 23.2506,  
88.3023

■ 48.7945, 23.2506,  
88.3023

■ 48.7944, 23.2505,  
88.3026

■ 49.6459, 24.1908,  
88.4392

■ 50.9255, 25.9817,  
88.7175

■ 52.7660, 28.8871,  
89.1813

■ 55.2462, 33.0650,  
89.8570

■ 58.4326, 38.6481,  
90.7667

■ 62.3830, 45.7523,  
91.9297

■ 67.1495, 54.4814,  
93.3634

■ 72.7794, 64.9302,  
95.0835

■ 79.3164, 77.1863,  
97.1046

# Harmonies

## Analogous

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



34.3491, 23.2506, 153.8953



48.7945, 23.2506, 88.3023



56.2038, 23.2506, 30.9824

# Triad

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



48.7945, 23.2506, 88.3023



23.9979, 23.2506, 0.0000



6.6459, 23.2506, 68.8625

# Complementary

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



48.7945, 23.2506, 88.3023



32.8670, 65.4156, 10.8952

# 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.



5.6585, 23.2506, 20.3863



48.7945, 23.2506, 88.3023



13.1745, 23.2506, 0.0000

# Square

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



48.7945, 23.2506, 88.3023



38.8229, 23.2506, 0.1743



7.5098, 23.2506, 2.8604



11.0360, 23.2506, 136.9406



# Rectangle

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



48.7945, 23.2506, 88.3023



54.6758, 23.2506, 10.8242



7.5098, 23.2506, 2.8604



5.9989, 23.2506, 49.0478

# Sweetspot

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



48.7955, 23.2516, 88.3028



73.4958, 59.5848, 102.2351



16.6727, 6.9743, 86.8540



15.2356, 11.8424, 21.7328



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.



48.7955, 23.2516, 88.3028



53.4262, 25.4571, 96.7056



42.3058, 21.2729, 26.2443



17.1005, 16.7100, 20.8666



26.3328, 12.5494, 47.5724



2.3460, 1.1193, 4.1826



# Inverse Universe

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



37.7505, 19.4508, 2.2562



41.3385, 21.2994, 2.4486



35.2642, 66.3498, 24.6346



16.5430, 16.5001, 17.3401



20.3535, 10.4848, 1.3039



1.8039, 0.9275, 0.1939



# Previews

## White Background



This preview shows how the XYZ color 48.7945, 23.2506, 88.3023 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

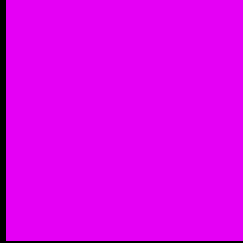
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.7945, 23.2506, 88.3023 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 48.7945, 23.2506, 88.3023**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.7945, 23.2506, 88.3023.



This preview shows how white text looks on a background with the XYZ color 48.7945, 23.2506,



# 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

48.7945, 23.2506, 88.3023

### Protanopia

27.8961, 24.1459, 97.7981

### Deuteranopia

24.7505, 23.9709, 78.1853



## Tritanopia

33.7824, 23.3421, 15.5569

# Trichromacy



## Original Color

48.7945, 23.2506, 88.3023



## Protanomaly

28.3910, 17.2165, 93.0935



## Deuteranomaly

26.2083, 16.7187, 80.4430



## Tritanomaly

36.4986, 20.6095, 33.0647

# Monochromacy



## Original Color

48.7945, 23.2506, 88.3023



## Achromatopsia

11.1181, 11.6971, 12.7381



## Achromatomaly

18.6754, 11.4688, 30.0836

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.7945, 23.2506, 88.3023 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(229, 0, 245)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 245)  
}
```

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(229, 0, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 48.7945, 23.2506, 88.3023 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(229, 0, 245) }
```



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

```
.border{ border-color:rgb(229, 0, 245) }
```

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

Here you see how a box with a 4 pixel rgb(229, 0, 245) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 245);  
box-shadow:4px 4px 4px 4px rgb(229, 0,  
245) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.7945, 23.2506, 88.3023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 245) }
```

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

```
.background{ background-color: rgb(229, 0,  
245) }
```

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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