

# Converting Colors

XYZ(47.7897, 24.3952, 76.9581)

Have a look what the booklet for  
XYZ(47.7897, 24.3952, 76.9581)  
contains.

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# Color

**XYZ(47.8544, 24.4129,  
77.0529)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E62DE6
RGB	230, 45, 230
RGB Percent	90%, 18%, 90%
CMY	0.0980, 0.8235, 0.0980
CMYK	0.00, 0.80, 0.00, 0.10
HSL	300°, 79%, 54%
HSV	300°, 80%, 90%
XYZ	47.8544, 24.4129, 77.0529
YIQ	121.4050, 50.8750, 96.7550

# Conversions

## Conversions Part 2

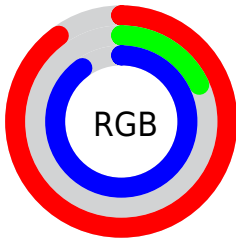
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	230, 45, 230
Decimal	15085030
CIE <sub>Lab</sub>	56.50, 85.27, -53.23
CIE <sub>LCh</sub>	56, 100.524, 328.027
Yxy	24.4129, 0.3205, 0.1635
Android (android.graphics.Color)	4293275110 (0xFFE62DE6)
YUV	121.4050, 53.5373, 95.2378
Hunter-Lab	49.4094, 86.4158, -57.8749

# Details

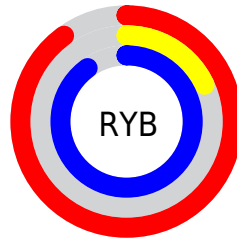
The XYZ color **47.8544, 24.4129, 77.0529** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **29.8538, 57.3421, 11.9785**, and the grayscale version is **18.1275, 19.0716, 20.7689**.

A 20% lighter version of the original color is **65.4207, 40.7415, 99.0236**, and **24.2175, 11.6020, 41.0074** is the 20% darker color. If you saturate the color by 10%, you get **47.2037, 23.1106, 76.8361**, and if you desaturate by 10%, it is **48.9844, 26.6720, 77.4298**.

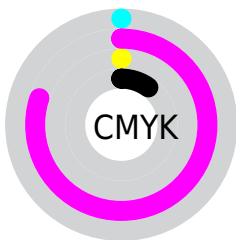
# Distribution



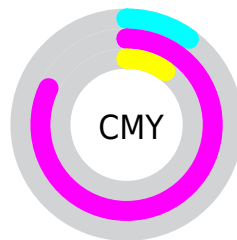
- Red (90%)
- Green (18%)
- Blue (90%)



- Red (90%)
- Yellow (18%)
- Blue (90%)



- Cyan (0%)
- Magenta (80%)
- Yellow (0%)
- Black (10%)




- Cyan (10%)
- Magenta (82%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8544, 24.4129, 77.0529 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 47.8544, 24.4129, 77.0529 by changing the saturation by 10% instead.




 47.8544, 24.4129,  
77.0529


 47.8544, 24.4129,  
77.0529

368.8069,  
274.9014, 504.3868


 33.9224, 15.6402,  
56.7845


 86.1986, 50.7032,  
130.9878


 22.9966, 9.2699,  
40.4240


 111.3415, 68.9895,  
165.4914


 14.7117, 4.9176,  
27.5530


 140.9520, 91.2158,  
205.5772

 8.7023, 2.1990,  
17.7529


 175.3955,  
117.7666, 251.6636

 4.6030, 0.7195,  
10.6051

 215.0374,  
149.0261, 304.1692

 2.0486, 0.0000,  
5.6912

260.2431,

 0.6611, 0.0000,

185.3788, 363.5126

2.5925

311.3778,  
227.2091, 430.1123

■ 0.0000, 0.0000,  
0.8886

■ 0.0000, 0.0000,  
0.0000

■ 47.8544, 24.4129,  
77.0529

■ 47.8544, 24.4129,  
77.0529

■ 47.2037, 23.1106,  
76.8361

■ 48.9844, 26.6720,  
77.4298

■ 46.9165, 22.5364,  
76.7403

■ 50.6586, 30.0205,  
77.9880

■ 52.9352, 34.5736,  
78.7469

■ 55.8639, 40.4310,  
79.7232

■ 59.4895, 47.6821,  
80.9318

■ 63.8526, 56.4083,  
82.3863

■ 68.9908, 66.6848,  
84.0991

■ 74.9393, 78.5817,  
86.0820

■ 81.7309, 92.1649,  
88.3460

# Harmonies

## Analogous

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



35.3964, 24.4129, 132.8869



47.8544, 24.4129, 77.0529



53.5487, 24.4129, 28.8508

# Triad

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



47.8544, 24.4129, 77.0529



23.9831, 24.4129, 0.0000



8.5188, 24.4129, 69.5378

# Complementary

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



47.8544, 24.4129, 77.0529



29.8538, 57.3421, 11.9785

# 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.



7.2481, 24.4129, 24.4344



47.8544, 24.4129, 77.0529



14.1920, 24.4129, 0.6067

# Square

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



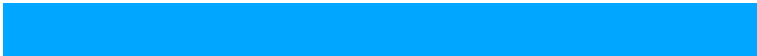
47.8544, 24.4129, 77.0529



37.1953, 24.4129, 0.8486



8.9202, 24.4129, 5.0314



13.2515, 24.4129, 126.5364



# Rectangle

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



47.8544, 24.4129, 77.0529



51.6745, 24.4129, 11.2646



8.9202, 24.4129, 5.0314



7.7597, 24.4129, 51.7771

# Sweetspot

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



47.8554, 24.4140, 77.0534



78.5373, 66.9746, 103.3955



16.3046, 8.1490, 75.5775



16.3911, 13.4971, 21.9912



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.



47.8554, 24.4140, 77.0534



59.3728, 28.6460, 97.0066



38.1241, 20.5215, 25.8094



14.9952, 14.6153, 18.1750



26.5611, 12.7587, 43.4454



1.9628, 0.9428, 3.2105



# Inverse Universe

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



47.8554, 24.4140, 77.0534



59.3728, 28.6460, 97.0066



33.9316, 58.9732, 33.4523



14.9952, 14.6153, 18.1750



26.5611, 12.7587, 43.4454



1.9628, 0.9428, 3.2105



# Previews

## White Background



This preview shows how the XYZ color 47.8544, 24.4129, 77.0529 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

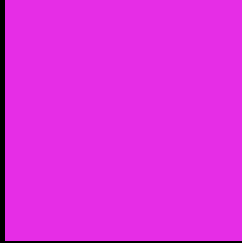
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8544, 24.4129, 77.0529 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

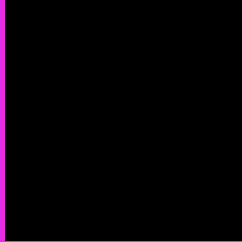
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 47.8544, 24.4129, 77.0529**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8544, 24.4129, 77.0529.



This preview shows how white text looks on a background with the XYZ color 47.8544, 24.4129,



# 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

47.8544, 24.4129, 77.0529

### Protanopia

28.6852, 24.9515, 97.9120

### Deuteranopia

25.4484, 24.7419, 69.0800



## Tritanopia

35.0923, 24.1478, 15.9081

# Trichromacy



## Original Color

47.8544, 24.4129, 77.0529



## Protanomaly

29.9441, 20.2802, 89.5250



## Deuteranomaly

28.8503, 20.5499, 71.5532



## Tritanomaly

38.0482, 23.0229, 31.2927

# Monochromacy



## Original Color

47.8544, 24.4129, 77.0529



## Achromatopsia

18.1737, 19.1202, 20.8219



## Achromatomaly

25.0453, 17.9790, 35.8685

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8544, 24.4129, 77.0529 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(230, 45, 230)` looks like.

```
.text, #text, p{  
    color:rgb(230, 45, 230)  
}
```

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(230, 45, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 45, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8544, 24.4129, 77.0529 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(230, 45, 230) }
```



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

```
.border{ border-color:rgb(230, 45, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 45, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 45, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 45, 230);  
box-shadow:4px 4px 4px 4px rgb(230, 45,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8544, 24.4129, 77.0529 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 45, 230) }
```

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

```
.background{ background-color: rgb(230, 45,  
230) }
```

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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