

# Converting Colors

XYZ(46.8834, 22.7936, 64.3447)

Have a look what the booklet for  
XYZ(46.8834, 22.7936, 64.3447)  
contains.

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# Color

**XYZ(46.8087, 22.7580,  
64.2130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED00D4
RGB	237, 0, 212
RGB Percent	93%, 0%, 83%
CMY	0.0706, 0.9998, 0.1686
CMYK	0.00, 1.00, 0.11, 0.07
HSL	306°, 100%, 46%
HSV	306°, 100%, 93%
XYZ	46.8087, 22.7580, 64.2130
YIQ	95.0310, 73.2000, 116.1760

# Conversions

## Conversions Part 2

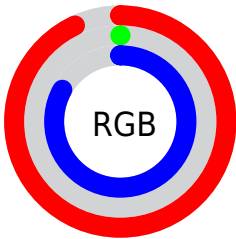
Format	Color
R <sub>Y</sub> B	237, 0, 212
Decimal	15532244
CIE Lab	54.82, 89.58, -45.61
CIE LCh	55, 100.526, 333.016
Yxy	22.7580, 0.3499, 0.1701
Android (android.graphics.Color)	4293722324 (0xFFED00D4)
YUV	95.0310, 57.6657, 124.5068
Hunter-Lab	47.7053, 91.6606, -46.4126

# Details

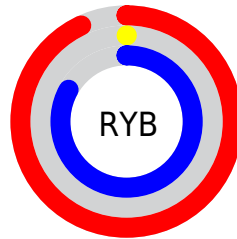
The XYZ color **46.8087, 22.7580, 64.2130** is a light color, and the websafe version is hex **FF00CC**. The color can be described as light washed magenta. A complement of this color would be **30.4610, 60.6396, 11.0214**, and the grayscale version is **10.7450, 11.3046, 12.3107**.

A 20% lighter version of the original color is **63.8472, 37.5943, 98.4991**, and **23.9903, 11.6644, 32.8853** is the 20% darker color. If you saturate the color by 10%, you get **46.8085, 22.7579, 64.2102**, and if you desaturate by 10%, it is **47.4484, 23.5281, 65.9948**.

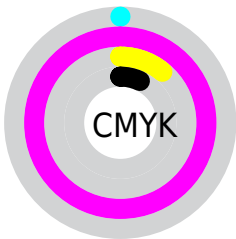
# Distribution



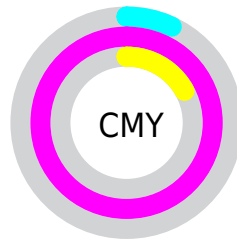
- Red (93%)
- Green (0%)
- Blue (83%)



- Red (93%)
- Yellow (0%)
- Blue (83%)



- Cyan (0%)
- Magenta (100%)
- Yellow (11%)
- Black (7%)




- Cyan (7%)
- Magenta (100%)
- Yellow (17%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8087, 22.7580, 64.2130 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 46.8087, 22.7580, 64.2130 by changing the saturation by 10% instead.





 46.8087, 22.7580,  
64.2130


 46.8087, 22.7580,  
64.2130


364.7121,  
266.4796, 458.1870

 33.0918, 14.4149,  
46.3759

 84.6485, 47.9957,  
112.5201

 22.3563, 8.4098,  
32.1918


 109.5020, 65.6590,  
143.8271


 14.2370, 4.3583,  
21.2420


 138.7985, 87.1979,  
180.4612

 8.3685, 1.8759,  
13.1080

 172.9033,  
112.9968, 222.8410

 4.3854, 0.5338,  
7.3714

 212.1816,  
143.4400, 271.3849

 1.9224, 0.0000,  
3.6135

256.9990,

 0.5898, 0.0000,

178.9119, 326.5115

1.4158

307.7207,  
219.7970, 388.6394

■ 0.0000, 0.0000,  
0.1540

■ 0.0000, 0.0000,  
0.0000

■ 46.8087, 22.7580,  
64.2130

■ 46.8087, 22.7580,  
64.2130

■ 46.8085, 22.7579,  
64.2102

■ 47.4484, 23.5281,  
65.9948

■ 48.4843, 25.0833,  
67.9328

■ 50.0402, 27.6705,  
70.0684

■ 52.1887, 31.4352,  
72.4259

■ 54.9910, 36.4994,  
75.0259

■ 58.5005, 42.9699,  
77.8863

■ 62.7649, 50.9425,  
81.0231

■ 67.8282, 60.5045,  
84.4509

■ 73.7305, 71.7366,  
88.1834

# Harmonies

## Analogous

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



35.4887, 22.7580, 119.6740



46.8087, 22.7580, 64.2130



50.7574, 22.7580, 21.6968

# Triad

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



46.8087, 22.7580, 64.2130



20.5257, 22.7580, 0.0000



8.2046, 22.7580, 75.3214

# Complementary

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



46.8087, 22.7580, 64.2130



30.4610, 60.6396, 11.0214

# 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.



6.5393, 22.7580, 28.1414



46.8087, 22.7580, 64.2130



11.9514, 22.7580, 0.7151

# Square

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



46.8087, 22.7580, 64.2130



32.8478, 22.7580, 0.3453



7.6294, 22.7580, 6.0921



13.3113, 22.7580, 129.1128



# Rectangle

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



46.8087, 22.7580, 64.2130



47.8626, 22.7580, 7.7267



7.6294, 22.7580, 6.0921



7.3215, 22.7580, 57.2373

# Sweetspot

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



46.8096, 22.7591, 64.2134



74.0376, 60.0111, 95.6191



15.6572, 6.3065, 80.5135



15.3680, 11.9464, 20.1225



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.



46.8096, 22.7591, 64.2134



55.2569, 26.8668, 75.7419



36.9835, 18.8287, 12.4703



15.6423, 15.2848, 18.6679



25.5847, 12.4366, 35.2102



2.0287, 0.9845, 2.8686



# Inverse Universe

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



46.8096, 22.7591, 64.2134



55.2569, 26.8668, 75.7419



35.1839, 62.5288, 35.8921



15.6423, 15.2848, 18.6679



25.5847, 12.4366, 35.2102



2.0287, 0.9845, 2.8686



# Previews

## White Background



This preview shows how the XYZ color 46.8087, 22.7580, 64.2130 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

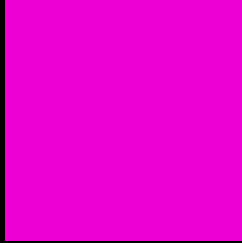
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8087, 22.7580, 64.2130 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

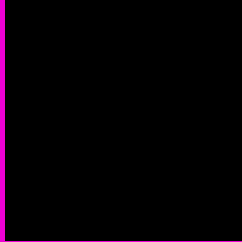
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 46.8087, 22.7580, 64.2130**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8087, 22.7580, 64.2130.



This preview shows how white text looks on a background with the XYZ color 46.8087, 22.7580,



# 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

46.8087, 22.7580, 64.2130

### Protanopia

27.6452, 23.8201, 97.7484

### Deuteranopia

24.0396, 23.4508, 57.2923



## Tritanopia

35.9060, 22.8986, 11.7599

# Trichromacy



## Original Color

46.8087, 22.7580, 64.2130



## Protanomaly

26.7657, 16.4775, 83.4311



## Deuteranomaly

26.8319, 17.2796, 59.0478



## Tritanomaly

37.8198, 20.8977, 24.2306

# Monochromacy



## Original Color

46.8087, 22.7580, 64.2130



## Achromatopsia

10.8771, 11.4435, 12.4620



## Achromatomaly

18.2359, 11.2697, 25.2589

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8087, 22.7580, 64.2130 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(237, 0, 212)` looks like.

```
.text, #text, p{  
    color:rgb(237, 0, 212)  
}
```

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(237, 0, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 0, 212) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8087, 22.7580, 64.2130 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(237, 0, 212) }
```



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

```
.border{ border-color:rgb(237, 0, 212) }
```

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

Here you see how a box with a 4 pixel rgb(237, 0, 212) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 0, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 0, 212);  
box-shadow:4px 4px 4px 4px rgb(237, 0,  
212) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8087, 22.7580, 64.2130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 0, 212) }
```

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

```
.background{ background-color: rgb(237, 0,  
212) }
```

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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