

# Converting Colors

XYZ(48.4028, 23.6075, 63.0325)

Have a look what the booklet for  
XYZ(48.4028, 23.6075, 63.0325)  
contains.

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# Color

**XYZ(48.2508, 23.5304,  
62.9715)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F200D2
RGB	242, 0, 210
RGB Percent	95%, 0%, 82%
CMY	0.0510, 0.9998, 0.1765
CMYK	0.00, 1.00, 0.13, 0.05
HSL	308°, 100%, 47%
HSV	308°, 100%, 95%
XYZ	48.2508, 23.5304, 62.9715
YIQ	96.2980, 76.8220, 116.6140

# Conversions

## Conversions Part 2

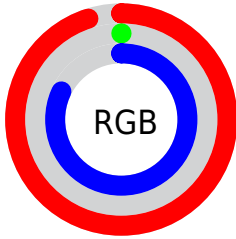
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 0, 210
Decimal	15859922
CIE Lab	55.61, 90.18, -43.16
CIE LCh	56, 99.977, 334.425
Yxy	23.5304, 0.3581, 0.1746
Android (android.graphics.Color)	4294050002 (0xFFFF200D2)
YUV	96.2980, 56.0551, 127.7807
Hunter-Lab	48.5081, 92.6638, -43.0124

# Details

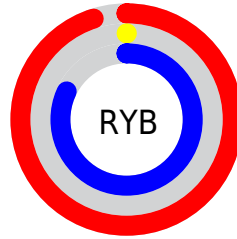
The XYZ color **48.2508, 23.5304, 62.9715** is a light color, and the websafe version is hex **FF00CC**. The color can be described as light saturated magenta. A complement of this color would be **32.0143, 63.6096, 11.9605**, and the grayscale version is **11.0523, 11.6279, 12.6627**.

A 20% lighter version of the original color is **63.9437, 37.7874, 98.5312**, and **24.9725, 12.1903, 32.0471** is the 20% darker color. If you saturate the color by 10%, you get **48.2504, 23.5302, 62.9676**, and if you desaturate by 10%, it is **48.9858, 24.3552, 65.2039**.

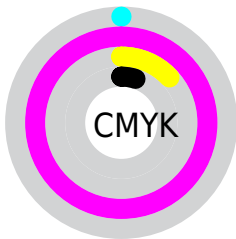
# Distribution



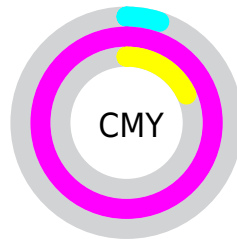
- Red (95%)
- Green (0%)
- Blue (82%)



- Red (95%)
- Yellow (0%)
- Blue (82%)



- Cyan (0%)
- Magenta (100%)
- Yellow (13%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.2508, 23.5304, 62.9715 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 48.2508, 23.5304, 62.9715 by changing the saturation by 10% instead.




 48.2508, 23.5304,  
62.9715


 48.2508, 23.5304,  
62.9715

370.3514,  
270.4377, 453.5711


 34.2376, 14.9856,  
45.3773


 86.7851, 49.2628,  
110.7136


 23.2400, 8.8093,  
31.4096


 112.0370, 67.2192,  
141.6985


 14.8925, 4.6170,  
20.6499


 141.7658, 89.0816,  
177.9841

 8.8298, 2.0244,  
12.6796

 176.3369,  
115.2345, 219.9890

 4.6865, 0.6216,  
7.0801

 216.1157,  
146.0621, 268.1315

 2.0974, 0.0000,  
3.4331

261.4675,

 0.6878, 0.0000,

181.9489, 322.8304

1.3198

312.7576,  
223.2793, 384.5041

■ 0.0000, 0.0000,  
0.0779

■ 0.0000, 0.0000,  
0.0000

■ 48.2508, 23.5304,  
62.9715

■ 48.2508, 23.5304,  
62.9715

■ 48.2504, 23.5302,  
62.9676

■ 48.9858, 24.3552,  
65.2039

■ 50.1403, 26.0068,  
67.6155

■ 51.8434, 28.7426,  
70.2498

■ 54.1716, 32.7158,  
73.1325

■ 57.1894, 38.0550,  
76.2853

■ 60.9530, 44.8726,  
79.7272

■ 65.5128, 53.2696,  
83.4751

■ 70.9149, 63.3378,  
87.5447

■ 77.2017, 75.1621,  
91.9503

# Harmonies

## Analogous

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



37.0367, 23.5304, 118.8760



48.2508, 23.5304, 62.9715



51.7802, 23.5304, 21.1123

# Triad

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



48.2508, 23.5304, 62.9715



20.7297, 23.5304, 0.0000



8.8024, 23.5304, 79.3668

# Complementary

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



48.2508, 23.5304, 62.9715



32.0143, 63.6096, 11.9605

# 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.



6.9422, 23.5304, 30.7290



48.2508, 23.5304, 62.9715



12.1920, 23.5304, 0.9382

# Square

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



48.2508, 23.5304, 62.9715



33.1185, 23.5304, 0.3989



7.9322, 23.5304, 7.0511



14.2345, 23.5304, 132.7414



# Rectangle

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



48.2508, 23.5304, 62.9715



48.5590, 23.5304, 7.5407



7.9322, 23.5304, 7.0511



7.8403, 23.5304, 60.9334

# Sweetspot

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



48.2517, 23.5316, 62.9719



73.7235, 59.8855, 93.9654



16.5141, 6.6627, 84.4207



15.2919, 11.9160, 19.7216



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.



48.2517, 23.5316, 62.9719



54.3277, 26.4951, 70.8489



38.5855, 19.6651, 12.0707



16.3591, 15.9933, 19.4470



25.9571, 12.6552, 34.0201



2.1841, 1.0627, 2.9605



# Inverse Universe

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



48.2517, 23.5316, 62.9719



54.3277, 26.4951, 70.8489



37.1979, 65.6831, 39.2570



16.3591, 15.9933, 19.4470



25.9571, 12.6552, 34.0201



2.1841, 1.0627, 2.9605



# Previews

## White Background



This preview shows how the XYZ color 48.2508, 23.5304, 62.9715 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

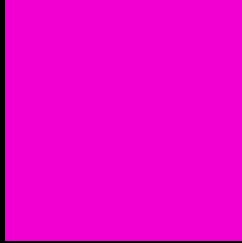
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.2508, 23.5304, 62.9715 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 48.2508, 23.5304, 62.9715**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.2508, 23.5304, 62.9715.



This preview shows how white text looks on a background with the XYZ color 48.2508, 23.5304,



# 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

48.2508, 23.5304, 62.9715

### Protanopia

28.2807, 24.5426, 97.8544

### Deuteranopia

24.7875, 24.2696, 56.2014



## Tritanopia

37.7686, 23.8636, 11.6323

# Trichromacy



## Original Color

48.2508, 23.5304, 62.9715



## Protanomaly

27.7265, 17.0856, 83.4979



## Deuteranomaly

27.8138, 17.9294, 57.8719



## Tritanomaly

39.6989, 21.8743, 23.9596

# Monochromacy



## Original Color

48.2508, 23.5304, 62.9715



## Achromatopsia

11.1181, 11.6971, 12.7381



## Achromatomaly

18.5785, 11.5332, 24.9138

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.2508, 23.5304, 62.9715 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(242, 0, 210)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 210)  
}
```

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(242, 0, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 210) }
```

## Border

The CSS property to change the border of an element to XYZ 48.2508, 23.5304, 62.9715 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(242, 0, 210) }
```



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

```
.border{ border-color:rgb(242, 0, 210) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 210) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 210);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
210) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.2508, 23.5304, 62.9715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 210) }
```

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

```
.background{ background-color: rgb(242, 0,  
210) }
```

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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