

# Converting Colors

XYZ(48.8111, 24.2884, 41.7987)

Have a look what the booklet for  
XYZ(48.8111, 24.2884, 41.7987)  
contains.

<b>XYZ(48.7828, 24.2771, 41.6500)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.7828, 24.2771,  
41.6500)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF00AD
RGB	255, 0, 173
RGB Percent	100%, 0%, 68%
CMY	0.0000, 0.9998, 0.3216
CMYK	0.00, 1.00, 0.32, 0.00
HSL	319°, 100%, 50%
HSV	319°, 100%, 100%
XYZ	48.7828, 24.2771, 41.6500
YIQ	95.9670, 96.4470, 107.8630

# Conversions

## Conversions Part 2

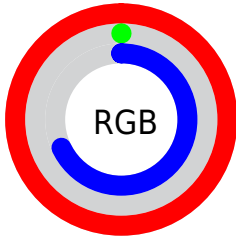
Format	Color
<b>RYB</b>	255, 0, 173
Decimal	16711853
CIELab	56.36, 88.41, -20.42
CIELCh	56, 90.737, 346.996
Yxy	24.2771, 0.4253, 0.2116
Android (android.graphics.Color)	4294901933 (0xFFFF00AD)
YUV	95.9670, 37.9773, 139.4719
Hunter-Lab	49.2718, 90.5028, -15.6282

# Details

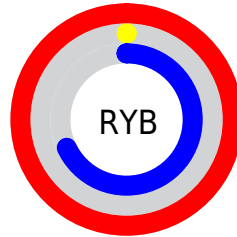
The XYZ color **48.7828, 24.2771, 41.6500** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **37.2860, 72.1305, 19.9518**, and the grayscale version is **11.0129, 11.5864, 12.6176**.

A 20% lighter version of the original color is **60.0365, 36.2245, 77.9565**, and **25.4435, 12.7179, 19.2029** is the 20% darker color. If you saturate the color by 10%, you get **48.7810, 24.2764, 41.6404**, and if you desaturate by 10%, it is **49.9610, 25.3239, 46.0797**.

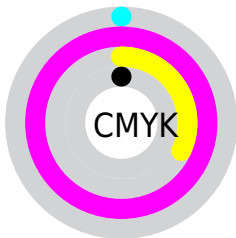
# Distribution



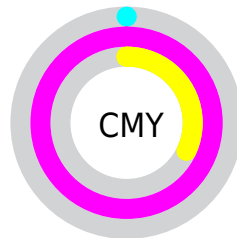
- Red (100%)
- Green (0%)
- Blue (68%)



- Red (100%)
- Yellow (0%)
- Blue (68%)



- Cyan (0%)
- Magenta (100%)
- Yellow (32%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.7828, 24.2771, 41.6500 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 48.7828, 24.2771, 41.6500 by changing the saturation by 10% instead.




 48.7828, 24.2771,  
41.6500


 48.7828, 24.2771,  
41.6500


372.4178,  
274.2184, 368.7868

 34.6610, 15.5393,  
28.5038


 87.5714, 50.4820,  
78.9340


 23.5672, 9.1987,  
18.4634


 112.9690, 68.7179,  
103.9089


 15.1359, 4.8710,  
11.1104


 142.8559, 90.8886,  
133.6638

 9.0017, 2.1718,  
6.0260

 177.5975,  
117.3786, 168.6172

 4.7994, 0.7046,  
2.7919

 217.5592,  
148.5721, 209.1876

 2.1636, 0.0000,  
0.9894

263.1062,

 0.7235, 0.0000,

184.8537, 255.7937

0.0000

314.6039,  
226.6077, 308.8539

■ 0.0000, 0.0000,  
0.0000

■ 48.7828, 24.2771,  
41.6500

■ 48.7828, 24.2771,  
41.6500

■ 48.7810, 24.2764,  
41.6404

■ 49.9610, 25.3239,  
46.0797

■ 51.6557, 27.3246,  
50.9261

■ 54.0108, 30.5654,  
56.2411

■ 57.1145, 35.2213,  
62.0584

■ 61.0407, 41.4392,  
68.4062

65.8542, 49.3472,  
75.3101

71.6130, 59.0603,  
82.7931

78.3702, 70.6833,  
90.8764

86.1747, 84.3128,  
99.5800

# Harmonies

## Analogous

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



41.1567, 24.2771, 88.5060



48.7828, 24.2771, 41.6500



48.1871, 24.2771, 12.9052

# Triad

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



48.7828, 24.2771, 41.6500



17.6746, 24.2771, 0.7275



11.8848, 24.2771, 95.0188

# Complementary

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



48.7828, 24.2771, 41.6500



37.2860, 72.1305, 19.9518

# 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.



8.6774, 24.2771, 47.1299



48.7828, 24.2771, 41.6500



11.2587, 24.2771, 3.3837

# Square

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



48.7828, 24.2771, 41.6500



27.9089, 24.2771, 0.6131



8.4895, 24.2771, 15.4644



18.8336, 24.2771, 131.8521



# Rectangle

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



48.7828, 24.2771, 41.6500



43.1841, 24.2771, 4.7011



8.4895, 24.2771, 15.4644



10.4387, 24.2771, 78.5432

# Sweetspot

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



48.7835, 24.2784, 41.6504



71.5985, 59.0355, 82.7750



21.4261, 8.9614, 95.2082



14.7801, 11.7113, 17.0267



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.



48.7835, 24.2784, 41.6504



48.7810, 24.2764, 41.6404



41.7497, 21.4649, 4.6108



18.5295, 18.1951, 21.4055



25.5603, 12.7134, 22.1330



2.5387, 1.2578, 2.4182



# Inverse Universe

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



48.7835, 24.2784, 41.6504



48.7810, 24.2764, 41.6404



47.1780, 76.0873, 72.0427



18.5295, 18.1951, 21.4055



25.5603, 12.7134, 22.1330



2.5387, 1.2578, 2.4182



# Previews

## White Background



This preview shows how the XYZ color 48.7828, 24.2771, 41.6500 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

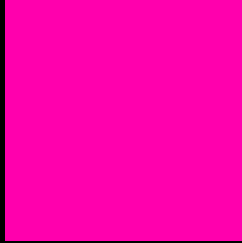
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.7828, 24.2771, 41.6500 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 48.7828, 24.2771, 41.6500**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.7828, 24.2771, 41.6500.



This preview shows how white text looks on a background with the XYZ color 48.7828, 24.2771,

41.6500.

# 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

48.7828, 24.2771, 41.6500

### Protanopia

28.5694, 25.2398, 91.3617

### Deuteranopia

25.1371, 24.6666, 37.1545



## Tritanopia

41.9159, 24.5456, 8.4898

# Trichromacy



## Original Color

48.7828, 24.2771, 41.6500



## Protanomaly

27.6684, 17.5936, 69.6478



## Deuteranomaly

28.8624, 18.9169, 37.7274



## Tritanomaly

43.3543, 23.3197, 16.4035

# Monochromacy



## Original Color

48.7828, 24.2771, 41.6500



## Achromatopsia

11.1181, 11.6971, 12.7381



## Achromatomaly

18.6333, 11.6627, 20.3378

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.7828, 24.2771, 41.6500 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(255, 0, 173)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 173)  
}
```

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(255, 0, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 173) }
```

## Border

The CSS property to change the border of an element to XYZ 48.7828, 24.2771, 41.6500 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(255, 0, 173) }
```



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

```
.border{ border-color:rgb(255, 0, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 173);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
173) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.7828, 24.2771, 41.6500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 173) }
```

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

```
.background{ background-color: rgb(255, 0,  
173) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**