

# Converting Colors

XYZ(46.8282, 50.6231, 9.6172)

Have a look what the booklet for  
XYZ(46.8282, 50.6231, 9.6172)  
contains.

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# Color

**XYZ(46.8216, 50.4668,  
9.5588)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D9BB2B
RGB	217, 187, 43
RGB Percent	85%, 73%, 17%
CMY	0.1490, 0.2666, 0.8313
CMYK	0.00, 0.14, 0.80, 0.15
HSL	50°, 70%, 51%
HSV	50°, 80%, 85%
XYZ	46.8216, 50.4668, 9.5588
YIQ	179.5540, 64.1040, -38.4240

# Conversions

## Conversions Part 2

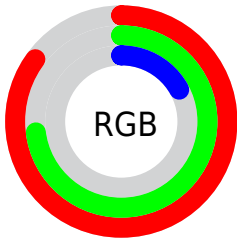
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 217, 43
Decimal	14269227
CIELab	76.35, -3.19, 70.34
CIELCh	76, 70.417, 92.600
Yxy	50.4668, 0.4382, 0.4723
Android (android.graphics.Color)	4292459307 (0xFFD9BB2B)
YUV	179.5540, -67.3211, 32.8401
Hunter-Lab	71.0400, -6.6728, 41.7502

# Details

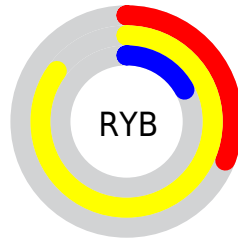
The XYZ color **46.8216, 50.4668, 9.5588** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **15.9033, 10.2884, 66.7927**, and the grayscale version is **43.4699, 45.7337, 49.8040**.

A 20% lighter version of the original color is **75.6889, 86.3205, 25.2427**, and **22.6256, 24.3193, 3.5016** is the 20% darker color. If you saturate the color by 10%, you get **45.7415, 48.7834, 7.7297**, and if you desaturate by 10%, it is **48.1362, 52.2810, 12.5107**.

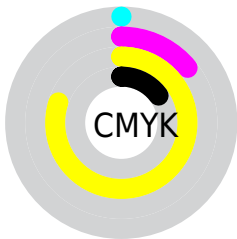
# Distribution



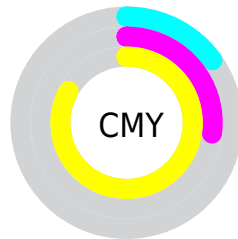
- Red (85%)
- Green (73%)
- Blue (17%)



- Red (31%)
- Yellow (85%)
- Blue (17%)



- Cyan (0%)
- Magenta (14%)
- Yellow (80%)
- Black (15%)




- Cyan (15%)
- Magenta (27%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8216, 50.4668, 9.5588 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 46.8216, 50.4668, 9.5588 by changing the saturation by 10% instead.





 46.8216, 50.4668,  
9.5588


 46.8216, 50.4668,  
9.5588


364.7628,  
388.4886, 197.8625

 33.1020, 35.7844,  
5.0057


 84.6676, 90.8661,  
25.5570


 22.3642, 24.2678,  
2.1918


 109.5248,  
117.3519, 37.8391


 14.2429, 15.5324,  
0.6696


 138.8251,  
148.5409, 53.5347

 8.3726, 9.1939,  
0.0000

 172.9341,  
184.8176, 73.0622

 4.3881, 4.8678,  
0.0000

 212.2170,  
226.5663, 96.8402

 1.9239, 2.1699,  
0.0000

 257.0391,

 0.5907, 0.7035,

274.1714, 125.2872

0.0000

307.7660,  
328.0174, 158.8218

■ 0.0000, 0.0000,  
0.0000

■ 46.8216, 50.4668,  
9.5588

■ 46.8216, 50.4668,  
9.5588

■ 45.7415, 48.7834,  
7.7297

■ 48.1362, 52.2810,  
12.5107

■ 44.8541, 47.2298,  
6.7522

■ 49.7115, 54.2309,  
16.7376

■ 51.5736, 56.3290,  
22.3713

■ 53.7444, 58.5844,  
29.5261

■ 56.2434, 61.0051,  
38.3048

■ 59.0887, 63.5987,  
48.8010

■ 62.2968, 66.3718,  
61.1014

■ 65.8832, 69.3311,  
75.2867

■ 69.8624, 72.4824,  
91.4326

# Harmonies

## Analogous

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



60.6608, 50.4668, 12.3128



46.8216, 50.4668, 9.5588



35.5183, 50.4668, 13.5736

# Triad

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



46.8216, 50.4668, 9.5588



29.5597, 50.4668, 104.3282



74.3013, 50.4668, 95.7890

# Complementary

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



46.8216, 50.4668, 9.5588



15.9033, 10.2884, 66.7927

# Split Complementary

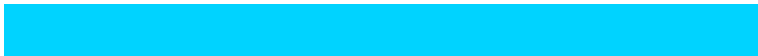
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



63.0301, 50.4668, 142.0868



46.8216, 50.4668, 9.5588



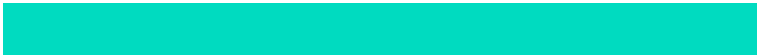
37.1807, 50.4668, 148.4090

# Square

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



46.8216, 50.4668, 9.5588



26.7673, 50.4668, 58.3239



49.1313, 50.4668, 164.6852



78.1539, 50.4668, 51.7084



# Rectangle

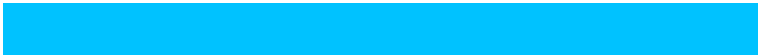
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.8216, 50.4668, 9.5588



30.4540, 50.4668, 21.5000



49.1313, 50.4668, 164.6852



71.1637, 50.4668, 112.1852

# Sweetspot

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



46.8227, 50.4692, 9.5598



83.4415, 90.1188, 63.9181



30.7458, 16.9865, 8.2978



17.5477, 19.0031, 12.5335



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.



46.8227, 50.4692, 9.5598



65.0401, 68.7709, 10.1390



40.1290, 57.4707, 11.2640



13.9613, 14.8620, 13.8584



27.2212, 28.7281, 4.1104



1.8149, 1.9640, 0.2834



# Inverse Universe

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



15.9033, 10.2884, 66.7927



19.4235, 9.7776, 95.4713



18.4366, 9.3404, 66.4761



12.5192, 12.9782, 16.4973



8.0431, 3.9557, 40.0780

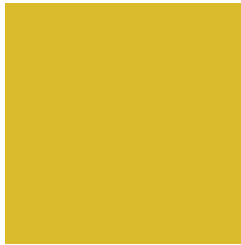


0.5771, 0.3682, 2.6151



# Previews

## White Background



This preview shows how the XYZ color 46.8216, 50.4668, 9.5588 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 46.8216, 50.4668, 9.5588 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 ✓ Pass

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

**XYZ 46.8216, 50.4668, 9.5588**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8216, 50.4668, 9.5588.



This preview shows how white text looks on a background with the XYZ color 46.8216, 50.4668,



# 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

46.8216, 50.4668, 9.5588

### Protanopia

45.7850, 50.5667, 9.6327

### Deuteranopia

51.5582, 50.4500, 9.7097



## Tritanopia

55.8917, 50.2338, 54.3272

# Trichromacy



## Original Color

46.8216, 50.4668, 9.5588

## Protanomaly

46.1508, 50.4370, 9.5884

## Deuteranomaly

49.8542, 50.4761, 9.7000

## Tritanomaly

50.9247, 49.6774, 29.8264

# Monochromacy



## Original Color

46.8216, 50.4668, 9.5588

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

42.9551, 46.8161, 27.8915

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8216, 50.4668, 9.5588 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(217, 187, 43)` looks like.

```
.text, #text, p{  
    color:rgb(217, 187, 43)  
}
```

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(217, 187, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 187, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8216, 50.4668, 9.5588 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(217, 187, 43) }
```



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

```
.border{ border-color:rgb(217, 187, 43) }
```

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

Here you see how a box with a 4 pixel rgb(217, 187, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 187, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 187, 43);  
box-shadow:4px 4px 4px 4px rgb(217, 187,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8216, 50.4668, 9.5588 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 187, 43) }
```

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

```
.background{ background-color: rgb(217,  
187, 43) }
```

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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