

# Converting Colors

XYZ(42.6291, 46.9882, 9.8482)

Have a look what the booklet for  
XYZ(42.6291, 46.9882, 9.8482)  
contains.

<b>XYZ(42.6860, 47.0764, 9.8545)</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(42.6860, 47.0764,  
9.8545)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDB732
RGB	205, 183, 50
RGB Percent	80%, 72%, 20%
CMY	0.1961, 0.2823, 0.8039
CMYK	0.00, 0.11, 0.76, 0.20
HSL	51°, 61%, 50%
HSV	51°, 76%, 80%
XYZ	42.6860, 47.0764, 9.8545
YIQ	174.4160, 55.8050, -36.6990

# Conversions

## Conversions Part 2

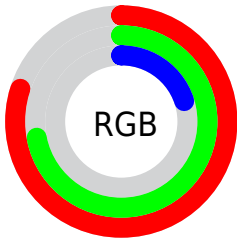
Format	Color
<b>RYB</b>	76, 205, 50
Decimal	13481778
CIELab	74.24, -6.06, 65.79
CIELCh	74, 66.067, 95.262
Yxy	47.0764, 0.4285, 0.4726
Android (android.graphics.Color)	4291671858 (0xFFCDB732)
YUV	174.4160, -61.3371, 26.8222
Hunter-Lab	68.6122, -9.0205, 39.5130

# Details

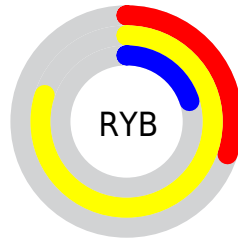
The XYZ color **42.6860, 47.0764, 9.8545** is a dark color, and the websafe version is hex **CCCC33**. The color can be described as middle muted orange. A complement of this color would be **14.6523, 9.7205, 58.8610**, and the grayscale version is **40.7334, 42.8547, 46.6688**.

A 20% lighter version of the original color is **74.7080, 84.0336, 25.9182**, and **20.0153, 22.1683, 3.2240** is the 20% darker color. If you saturate the color by 10%, you get **41.7455, 45.7518, 7.8262**, and if you desaturate by 10%, it is **43.8390, 48.5094, 12.9310**.

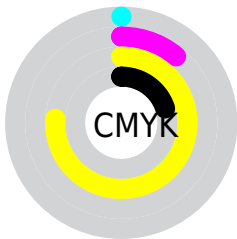
# Distribution



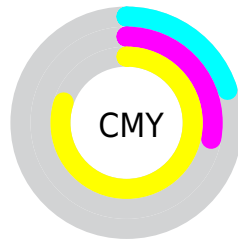
- Red (80%)
- Green (72%)
- Blue (20%)



- Red (30%)
- Yellow (80%)
- Blue (20%)



- Cyan (0%)
- Magenta (11%)
- Yellow (76%)
- Black (20%)




- Cyan (20%)
- Magenta (28%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6860, 47.0764, 9.8545 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 42.6860, 47.0764, 9.8545 by changing the saturation by 10% instead.





 42.6860, 47.0764,  
9.8545


 42.6860, 47.0764,  
9.8545


348.2623,  
375.1194, 200.0774


 29.8323, 33.0961,  
5.1983


 78.4955, 85.8277,  
26.1250


 19.8588, 22.2000,  
2.3033

 102.1819,  
111.3674, 38.5763


 12.4001, 14.0040,  
0.7331


 130.2100,  
141.5290, 54.4631

 7.0909, 8.1234,  
0.0000

 162.9451,  
176.6969, 74.2038

 3.5658, 4.1740,  
0.0000

 200.7525,  
217.2555, 98.2171

 1.4596, 1.7714,  
0.0000

 243.9976,

 0.2981, 0.4692,

263.5892, 126.9214

0.0000

293.0457,  
316.0823, 160.7353

■ 0.0000, 0.0000,  
0.0000

■ 42.6860, 47.0764,  
9.8545

■ 42.6860, 47.0764,  
9.8545

■ 41.7455, 45.7518,  
7.8262

■ 43.8390, 48.5094,  
12.9310

■ 40.9852, 44.5173,  
6.6911

■ 45.2248, 50.0537,  
17.1764

■ 40.6843, 43.9944,  
6.3475

■ 46.8647, 51.7197,  
22.6980

■ 48.7766, 53.5147,  
29.5901

■ 50.9770, 55.4454,  
37.9383

■ 53.4806, 57.5179,  
47.8209

■ 56.3016, 59.7377,  
59.3108

■ 59.4528, 62.1104,  
72.4764

■ 62.9466, 64.6408,  
87.3817

# Harmonies

## Analogous

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



54.9801, 47.0764, 11.8842



42.6860, 47.0764, 9.8545



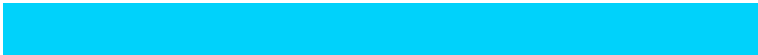
32.8302, 47.0764, 14.2907

# Triad

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



42.6860, 47.0764, 9.8545



28.5904, 47.0764, 98.9532



68.8116, 47.0764, 83.7266

# Complementary

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



42.6860, 47.0764, 9.8545



14.6523, 9.7205, 58.8610

# 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.



59.2408, 47.0764, 125.1986



42.6860, 47.0764, 9.8545



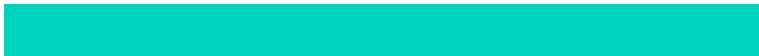
35.8656, 47.0764, 136.3774

# Square

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



42.6860, 47.0764, 9.8545



25.6641, 47.0764, 57.4832



46.8686, 47.0764, 147.6517



71.5056, 47.0764, 45.4996



# Rectangle

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



42.6860, 47.0764, 9.8545



28.5017, 47.0764, 22.3268



46.8686, 47.0764, 147.6517



66.2183, 47.0764, 98.1960

# Sweetspot

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



42.6871, 47.0786, 9.8554



84.4060, 91.5860, 65.6629



27.5285, 15.7451, 7.9358



17.7631, 19.3457, 12.8773



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.



42.6871, 47.0786, 9.8554



67.5347, 73.6027, 11.4553



35.1233, 50.4481, 10.9045



12.0129, 12.8147, 11.9198



25.3808, 27.4946, 3.9693



1.3475, 1.4947, 0.2175



# Inverse Universe

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



14.6523, 9.7205, 58.8610



19.8105, 10.2181, 95.5359



17.8985, 9.6476, 58.6759



10.7281, 11.0965, 14.1468



7.1768, 3.3776, 36.2300

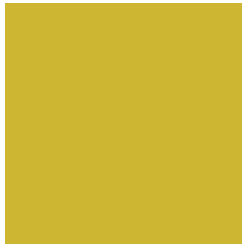


0.4128, 0.2594, 1.8832



# Previews

## White Background



This preview shows how the XYZ color 42.6860, 47.0764, 9.8545 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

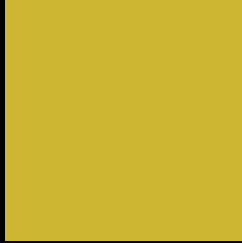
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.6860, 47.0764, 9.8545 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 42.6860, 47.0764, 9.8545**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6860, 47.0764, 9.8545.



This preview shows how white text looks on a background with the XYZ color 42.6860, 47.0764,



# 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

42.6860, 47.0764, 9.8545

### Protanopia

42.6860, 47.0764, 9.8545

### Deuteranopia

47.9225, 46.8115, 9.9998



## Tritanopia

51.2390, 47.0336, 51.7252

# Trichromacy



## Original Color

42.6860, 47.0764, 9.8545

## Protanomaly

42.6860, 47.0764, 9.8545

## Deuteranomaly

45.8799, 46.9170, 10.0059

## Tritanomaly

46.5671, 46.2581, 29.3960

# Monochromacy



## Original Color

42.6860, 47.0764, 9.8545

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

39.6922, 43.3435, 27.0430

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6860, 47.0764, 9.8545 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(205, 183, 50)` looks like.

```
.text, #text, p{  
    color:rgb(205, 183, 50)  
}
```

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(205, 183, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 183, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6860, 47.0764, 9.8545 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(205, 183, 50) }
```



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

```
.border{ border-color:rgb(205, 183, 50) }
```

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

Here you see how a box with a 4 pixel rgb(205, 183, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 183, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 183, 50);  
box-shadow:4px 4px 4px 4px rgb(205, 183,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6860, 47.0764, 9.8545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 183, 50) }
```

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

```
.background{ background-color: rgb(205,  
183, 50) }
```

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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