

# Converting Colors

XYZ(33.7904, 25.9232, 16.9770)

Have a look what the booklet for  
XYZ(33.7904, 25.9232, 16.9770)  
contains.

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# Color

**XYZ(33.6835, 25.8300,  
16.8460)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD716A
RGB	205, 113, 106
RGB Percent	80%, 44%, 42%
CMY	0.1961, 0.5568, 0.5843
CMYK	0.00, 0.45, 0.48, 0.20
HSL	4°, 50%, 61%
HSV	4°, 48%, 80%
XYZ	33.6835, 25.8300, 16.8460
YIQ	139.7100, 57.0790, 17.3270

# Conversions

## Conversions Part 2

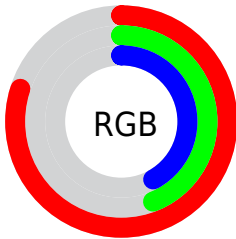
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	205, 114, 106
Decimal	13463914
CIE Lab	57.88, 35.40, 20.00
CIE LCh	58, 40.663, 29.467
Yxy	25.8300, 0.4411, 0.3383
Android (android.graphics.Color)	4291653994 (0xFFCD716A)
YUV	139.7100, -16.6190, 57.2593
Hunter-Lab	50.8232, 29.3617, 15.9238

# Details

The XYZ color **33.6835, 25.8300, 16.8460** is a dark color, and the websafe version is hex **CC6666**. A complement of this color would be **37.1562, 47.8577, 65.0366**, and the grayscale version is **24.8623, 26.1571, 28.4851**.

A 20% lighter version of the original color is **60.9620, 50.9668, 38.5228**, and **14.5447, 9.9641, 5.2943** is the 20% darker color. If you saturate the color by 10%, you get **30.8353, 21.6407, 11.2509**, and if you desaturate by 10%, it is **37.2339, 31.0160, 23.9328**.

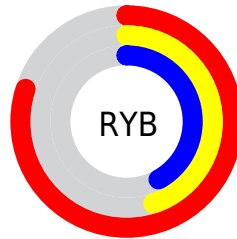
# Distribution



Red (80%)

Green (44%)

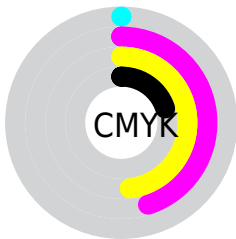
Blue (42%)



Red (80%)

Yellow (45%)

Blue (42%)

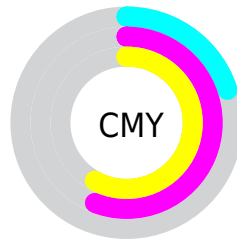


Cyan (0%)

Magenta (45%)

Yellow (48%)

Black (20%)



Cyan (20%)

Magenta (56%)

Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.6835, 25.8300, 16.8460 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 33.6835, 25.8300, 16.8460 by changing the saturation by 10% instead.





 33.6835, 25.8300,  
16.8460


 33.6835, 25.8300,  
16.8460


310.3293,  
281.9466, 246.2972


 22.8123, 16.6965,  
9.9640


 64.7887, 53.0006,  
38.8478


 14.5749, 10.0183,  
5.2698


 85.7535, 71.8064,  
54.8047

 8.6060, 5.4111,  
2.3449


 110.8135, 94.6052,  
74.6236

 4.5401, 2.4904,  
0.7562

 140.3341,  
121.7813, 98.7230

 2.0120, 0.8718,  
0.0000

174.6806,  
153.7191, 127.5215

 0.6407, 0.0000,  
0.0000

214.2184,

 0.0000, 0.0000,

190.8029, 161.4377

0.0000

259.3128,  
233.4173, 200.8901

■ 33.6835, 25.8300,  
16.8460

■ 33.6835, 25.8300,  
16.8460

■ 30.8353, 21.6407,  
11.2509

■ 37.2339, 31.0160,  
23.9328

■ 28.6407, 18.3803,  
7.0394

■ 41.5268, 37.2527,  
32.6059

■ 27.0482, 15.9793,  
4.0913


■ 46.6019, 44.5950,  
42.9539


■ 25.9973, 14.3563,  
2.2650


■ 52.4954, 53.0928,  
55.0585


■ 25.4084, 13.4116,  
1.3501

■ 59.2413, 62.7931,  
68.9959

 25.3407, 13.3070,  
1.2329

 66.8716, 73.7400,  
84.8380

 75.4168, 85.9757,  
102.6526

 78.9868, 91.7191,  
108.1483

# Harmonies

## Analogous

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



35.2077, 25.8300, 28.3759



33.6835, 25.8300, 16.8460



29.6456, 25.8300, 10.7184

# Triad

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



33.6835, 25.8300, 16.8460



17.3079, 25.8300, 16.5394



24.4632, 25.8300, 64.5732

# Complementary

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



33.6835, 25.8300, 16.8460



37.1562, 47.8577, 65.0366

# 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.



20.0757, 25.8300, 58.2903



33.6835, 25.8300, 16.8460



16.2955, 25.8300, 27.8746

# Square

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



33.6835, 25.8300, 16.8460



20.2085, 25.8300, 10.5872



17.2386, 25.8300, 43.5648



29.4740, 25.8300, 58.6987



# Rectangle

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



33.6835, 25.8300, 16.8460



26.3104, 25.8300, 9.0845



17.2386, 25.8300, 43.5648



22.8711, 25.8300, 63.7885

# Sweetspot

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



33.6841, 25.8313, 16.8465



80.1408, 78.5405, 78.1611



40.5702, 27.3830, 56.8154



16.7147, 16.1778, 15.8297



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.



33.6841, 25.8313, 16.8465



50.3265, 35.1784, 18.0751



40.7164, 39.8957, 19.1905



11.2750, 11.3390, 11.6738



15.8017, 8.3364, 0.7762



0.8380, 0.4756, 0.0476



# Inverse Universe

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



37.1562, 47.8577, 65.0366



56.6372, 75.3756, 106.1716



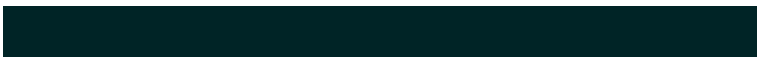
27.6951, 28.9354, 61.8829



11.4727, 12.5858, 14.3950



18.4192, 25.8623, 39.9774



0.9710, 1.3759, 2.0693



# Previews

## White Background



This preview shows how the XYZ color 33.6835, 25.8300, 16.8460 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

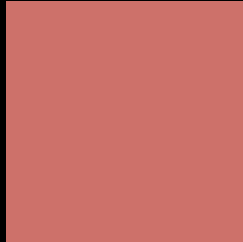
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.6835, 25.8300, 16.8460 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

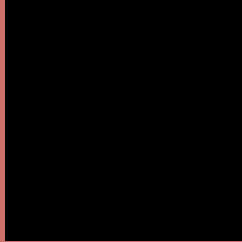
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.6835, 25.8300, 16.8460**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.6835, 25.8300, 16.8460.



This preview shows how white text looks on a background with the XYZ color 33.6835, 25.8300,



# 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

33.6835, 25.8300, 16.8460

### Protanopia

24.5353, 25.9763, 20.8603

### Deuteranopia

26.4404, 26.0088, 16.1970



## Tritanopia

34.4678, 25.8226, 20.6204

# Trichromacy



## Original Color

33.6835, 25.8300, 16.8460

## Protanomaly

27.1683, 25.5050, 19.4106

## Deuteranomaly

28.7314, 25.6043, 16.2598

## Tritanomaly

34.2850, 25.9251, 19.1166

# Monochromacy



## Original Color

33.6835, 25.8300, 16.8460

## Achromatopsia

24.9269, 26.2251, 28.5591

## Achromatomaly

27.1888, 25.4163, 23.8949

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.6835, 25.8300, 16.8460 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, 113, 106)` looks like.

```
.text, #text, p{  
    color:rgb(205, 113, 106)  
}
```

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, 113, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 113, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 33.6835, 25.8300, 16.8460 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, 113, 106) }
```



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

```
.border{ border-color:rgb(205, 113, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 113, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 113, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 113, 106);  
box-shadow:4px 4px 4px 4px rgb(205, 113,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.6835, 25.8300, 16.8460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 113, 106) }
```

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

```
.background{ background-color: rgb(205,  
113, 106) }
```

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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