

# Converting Colors

XYZ(34.6486, 24.8276, 4.7853)

Have a look what the booklet for  
XYZ(34.6486, 24.8276, 4.7853)  
contains.

<b>XYZ(34.6164, 24.8583, 4.8074)</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(34.6164, 24.8583,  
4.8074)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC6626
RGB	220, 102, 38
RGB Percent	86%, 40%, 15%
CMY	0.1373, 0.6000, 0.8510
CMYK	0.00, 0.54, 0.83, 0.14
HSL	21°, 72%, 51%
HSV	21°, 83%, 86%
XYZ	34.6164, 24.8583, 4.8074
YIQ	129.9860, 90.8720, 5.1120

# Conversions

## Conversions Part 2

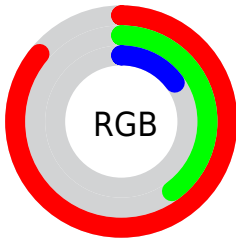
Format	Color
R <sub>Y</sub> B	220, 137, 38
Decimal	14444070
CIE Lab	56.94, 42.68, 55.07
CIE LCh	57, 69.672, 52.219
Yxy	24.8583, 0.5385, 0.3867
Android (android.graphics.Color)	4292634150 (0xFFDC6626)
YUV	129.9860, -45.3491, 78.9423
Hunter-Lab	49.8581, 36.6806, 29.1838

# Details

The XYZ color **34.6164, 24.8583, 4.8074** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **25.6051, 29.3544, 72.0260**, and the grayscale version is **21.3469, 22.4586, 24.4574**.

A 20% lighter version of the original color is **54.7645, 45.4240, 15.3325**, and **15.2412, 9.5503, 1.0401** is the 20% darker color. If you saturate the color by 10%, you get **33.0773, 22.1905, 3.0301**, and if you desaturate by 10%, it is **36.6072, 28.0950, 7.7688**.

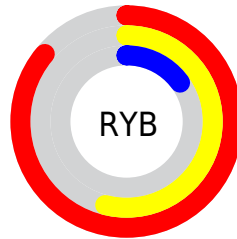
# Distribution



Red (86%)

Green (40%)

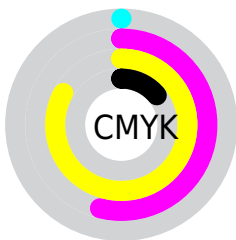
Blue (15%)



Red (86%)

Yellow (54%)

Blue (15%)

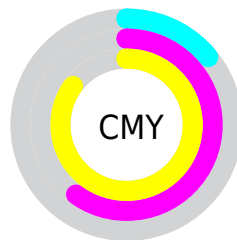


Cyan (0%)

Magenta (54%)

Yellow (83%)

Black (14%)



Cyan (14%)

Magenta (60%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.6164, 24.8583, 4.8074 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 34.6164, 24.8583, 4.8074 by changing the saturation by 10% instead.





 34.6164, 24.8583,  
4.8074


 34.6164, 24.8583,  
4.8074


314.4097,  
277.1315, 156.8164


 23.5327, 15.9715,  
2.0779


 66.2290, 51.4273,  
15.8328


 15.1102, 9.5040,  
0.6026


 87.4886, 69.8782,  
24.9658

 8.9836, 5.0714,  
0.0000


 112.8709, 92.2860,  
37.0704

 4.7875, 2.2892,  
0.0000

 142.7412,  
119.0351, 52.5652

 2.1566, 0.7680,  
0.0000

 177.4648,  
150.5097, 71.8686

 0.7197, 0.0000,  
0.0000

 217.4072,

 0.0000, 0.0000,

187.0944, 95.3992

0.0000

262.9337,  
229.1736, 123.5757

■ 34.6164, 24.8583,  
4.8074

■ 34.6164, 24.8583,  
4.8074

■ 33.0773, 22.1905,  
3.0301

■ 36.6072, 28.0950,  
7.7688

■ 32.1948, 20.5752,  
2.2746

■ 39.0918, 31.9323,  
12.0863

■ 42.1081, 36.4036,  
17.9046

■ 45.6893, 41.5386,  
25.3491

■ 49.8658, 47.3646,  
34.5319

■ 54.6656, 53.9073,  
45.5552

■ 60.1145, 61.1912,  
58.5130

■ 66.2371, 69.2393,  
73.4930

■ 73.0565, 78.0738,  
90.5775

# Harmonies

## Analogous

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



41.3563, 24.8583, 13.3699



34.6164, 24.8583, 4.8074



25.8183, 24.8583, 2.4840

# Triad

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



34.6164, 24.8583, 4.8074



11.2307, 24.8583, 21.4211



30.0787, 24.8583, 93.7254

# Complementary

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



34.6164, 24.8583, 4.8074



25.6051, 29.3544, 72.0260

# 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.



21.5635, 24.8583, 100.5839



34.6164, 24.8583, 4.8074



11.8646, 24.8583, 47.8911

# Square

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



34.6164, 24.8583, 4.8074



13.2596, 24.8583, 7.8018



15.2509, 24.8583, 80.4642



38.3437, 24.8583, 65.0412



# Rectangle

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



34.6164, 24.8583, 4.8074



20.4560, 24.8583, 2.6092



15.2509, 24.8583, 80.4642



27.1100, 24.8583, 99.1396

# Sweetspot

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



34.6170, 24.8597, 4.8078



74.6346, 72.9587, 59.5834



36.2344, 19.0124, 33.3460



15.4614, 14.9173, 11.5707



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.



34.6170, 24.8597, 4.8078



45.0235, 28.8047, 3.2601



48.8685, 53.3628, 9.5583



13.4288, 13.7969, 13.6809



18.9899, 12.2654, 1.3666



1.3096, 0.9533, 0.1150

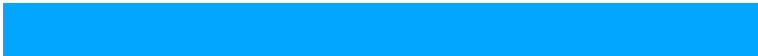


# Inverse Universe

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



25.6051, 29.3544, 72.0260



31.7578, 34.5882, 99.6101



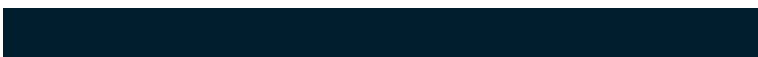
15.6253, 9.3947, 68.6994



13.0395, 14.0187, 16.6708



13.4220, 14.7135, 41.8710



0.9493, 1.1128, 2.7392



# Previews

## White Background



This preview shows how the XYZ color 34.6164, 24.8583, 4.8074 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 34.6164, 24.8583, 4.8074 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 34.6164, 24.8583, 4.8074**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.6164, 24.8583, 4.8074.



This preview shows how white text looks on a background with the XYZ color 34.6164, 24.8583,



# 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

34.6164, 24.8583, 4.8074

### Protanopia

22.5956, 24.8689, 6.2986

### Deuteranopia

25.4027, 24.9241, 4.4492



## Tritanopia

37.0126, 25.0130, 15.4476

# Trichromacy



## Original Color

34.6164, 24.8583, 4.8074

## Protanomaly

25.7937, 23.9443, 5.6451

## Deuteranomaly

28.1860, 24.4738, 4.4667

## Tritanomaly

35.9032, 24.8295, 10.2974

# Monochromacy



## Original Color

34.6164, 24.8583, 4.8074

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

23.9784, 22.0825, 14.3078

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.6164, 24.8583, 4.8074 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(220, 102, 38)` looks like.

```
.text, #text, p{  
    color:rgb(220, 102, 38)  
}
```

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(220, 102, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 102, 38) }
```

## Border

The CSS property to change the border of an element to XYZ 34.6164, 24.8583, 4.8074 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(220, 102, 38) }
```



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

```
.border{ border-color:rgb(220, 102, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 102, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 102, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 102, 38);  
box-shadow:4px 4px 4px 4px rgb(220, 102,  
38) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.6164, 24.8583, 4.8074 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 102, 38) }
```

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

```
.background{ background-color: rgb(220,  
102, 38) }
```

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