

# Converting Colors

XYZ(29.0214, 22.4523, 2.9564)

Have a look what the booklet for  
XYZ(29.0214, 22.4523, 2.9564)  
contains.

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# Color

**XYZ(28.8984, 22.3935,  
2.9428)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C86905
RGB	200, 105, 5
RGB Percent	78%, 41%, 2%
CMY	0.2157, 0.5882, 0.9804
CMYK	0.00, 0.47, 0.97, 0.22
HSL	31°, 95%, 40%
HSV	31°, 97%, 78%
XYZ	28.8984, 22.3935, 2.9428
YIQ	122.0050, 88.7200, -10.9600

# Conversions

## Conversions Part 2

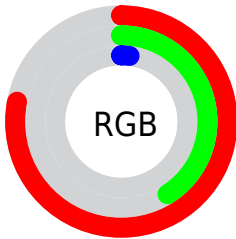
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	190, 200, 5
Decimal	13134085
CIE Lab	54.44, 32.58, 61.43
CIE LCh	54, 69.538, 62.058
Yxy	22.3935, 0.5328, 0.4129
Android (android.graphics.Color)	4291324165 (0xFFC86905)
YUV	122.0050, -57.6835, 68.4016
Hunter-Lab	47.3218, 26.1931, 29.4382

# Details

The XYZ color **28.8984, 22.3935, 2.9428** 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 **15.0448, 13.3162, 56.4205**, and the grayscale version is **18.6634, 19.6354, 21.3829**.

A 20% lighter version of the original color is **54.3101, 45.7792, 11.2840**, and **12.0616, 8.3173, 0.9697** is the 20% darker color. If you saturate the color by 10%, you get **28.6267, 21.8941, 2.7172**, and if you desaturate by 10%, it is **30.0970, 24.5539, 4.0731**.

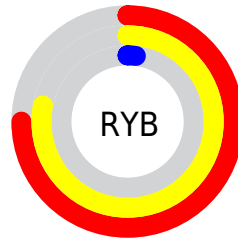
# Distribution



Red (78%)

Green (41%)

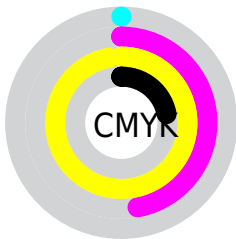
Blue (2%)



Red (75%)

Yellow (78%)

Blue (2%)

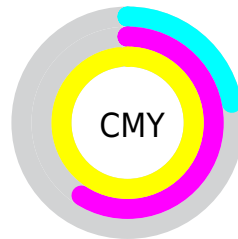


Cyan (0%)

Magenta (47%)

Yellow (97%)

Black (22%)



Cyan (22%)

Magenta (59%)

Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.8984, 22.3935, 2.9428 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 28.8984, 22.3935, 2.9428 by changing the saturation by 10% instead.



■ 28.8984, 22.3935,  
2.9428

■ 28.8984, 22.3935,  
2.9428

288.7381,  
264.5944, 135.6287

■ 19.1479, 14.1463,  
1.0655

■ 57.3143, 47.3955,  
11.4870

■ 11.8818, 8.2225,  
0.0000

■ 76.7104, 64.9191,  
18.9909

■ 6.7349, 4.2377,  
0.0000

■ 100.0524, 86.3037,  
29.2075

■ 3.3417, 1.8074,  
0.0000

■ 127.7056,  
111.9336, 42.5552

■ 1.3369, 0.4918,  
0.0000

■ 160.0354,  
142.1932, 59.4527

■ 0.2106, 0.0000,  
0.0000

■ 197.4072,

■ 0.0000, 0.0000,

177.4670, 80.3184

0.0000

240.1863,  
218.1392, 105.5709

28.8984, 22.3935,  
2.9428

28.8984, 22.3935,  
2.9428

28.6267, 21.8941,  
2.7172

30.0970, 24.5539,  
4.0731

31.5625, 27.0079,  
6.0326

33.3312, 29.7764,  
8.9924

35.4292, 32.8753,  
13.0735

37.8790, 36.3188,  
18.3796

■ 40.7011, 40.1199,  
25.0022

■ 43.9139, 44.2907,  
33.0242

■ 47.5346, 48.8429,  
42.5216

■ 51.5791, 53.7871,  
53.5646

# Harmonies

## Analogous

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



36.2395, 22.3935, 8.2242



28.8984, 22.3935, 2.9428



20.7635, 22.3935, 1.9091

# Triad

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



28.8984, 22.3935, 2.9428



9.7596, 22.3935, 25.9179



30.0282, 22.3935, 79.8877

# Complementary

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



28.8984, 22.3935, 2.9428



15.0448, 13.3162, 56.4205

# 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.



21.8139, 22.3935, 94.7537



28.8984, 22.3935, 2.9428



11.1405, 22.3935, 54.0526

# Square

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



28.8984, 22.3935, 2.9428



10.8029, 22.3935, 9.5522



15.1410, 22.3935, 83.2518



36.9935, 22.3935, 49.7433



# Rectangle

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



28.8984, 22.3935, 2.9428



16.2512, 22.3935, 2.5210



15.1410, 22.3935, 83.2518



27.2622, 22.3935, 87.4398

# Sweetspot

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



28.8989, 22.3947, 2.9432



74.9106, 75.2482, 54.3191



26.2968, 13.3572, 13.8935



15.5130, 15.4319, 10.3194



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.



28.8989, 22.3947, 2.9432



49.3261, 37.4323, 4.6254



44.5008, 53.5985, 8.1438



11.0761, 11.5213, 11.2028



18.2920, 14.1012, 1.7577



0.9385, 0.8124, 0.1073



# Inverse Universe

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



15.0448, 13.3162, 56.4205



25.2858, 21.6917, 97.4619



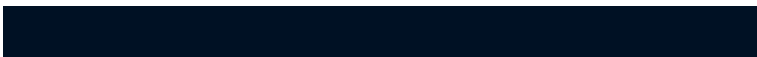
10.5422, 4.3110, 54.9196



10.4760, 11.1262, 13.5129



9.4613, 8.3164, 35.8509



0.5204, 0.5387, 1.7217



# Previews

## White Background



This preview shows how the XYZ color 28.8984, 22.3935, 2.9428 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 28.8984, 22.3935, 2.9428 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 28.8984, 22.3935, 2.9428**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.8984, 22.3935, 2.9428.



This preview shows how white text looks on a background with the XYZ color 28.8984, 22.3935,



# 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

28.8984, 22.3935, 2.9428

### Protanopia

20.2581, 22.4793, 3.8435

### Deuteranopia

22.7247, 22.4146, 3.1287



## Tritanopia

31.4950, 22.4314, 15.7664

# Trichromacy



## Original Color

28.8984, 22.3935, 2.9428

## Protanomaly

22.7581, 22.0551, 3.4384

## Deuteranomaly

24.7323, 22.1919, 3.0374

## Tritanomaly

30.0542, 22.2813, 8.1855

# Monochromacy



## Original Color

28.8984, 22.3935, 2.9428

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

20.2344, 19.5393, 10.1021

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.8984, 22.3935, 2.9428 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(200, 105, 5)` looks like.

```
.text, #text, p{
  color:rgb(200, 105, 5)
}
```

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(200, 105, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 105, 5) }
```

## Border

The CSS property to change the border of an element to XYZ 28.8984, 22.3935, 2.9428 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(200, 105, 5) }
```



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

```
.border{ border-color:rgb(200, 105, 5) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 105, 5)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 105, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 105, 5);  
box-shadow:4px 4px 4px 4px rgb(200, 105,  
5) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.8984, 22.3935, 2.9428 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 105, 5) }
```

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

```
.background{ background-color: rgb(200,  
105, 5) }
```

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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