

# Converting Colors

XYZ(28.7098, 20.7931, 2.5003)

Have a look what the booklet for  
XYZ(28.7098, 20.7931, 2.5003)  
contains.

<b>XYZ(28.6313, 20.7019, 2.4868)</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(28.6313, 20.7019,  
2.4868)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB5E00
RGB	203, 94, 0
RGB Percent	80%, 37%, 0%
CMY	0.2039, 0.6313, 1.0000
CMYK	0.00, 0.54, 1.00, 0.20
HSL	28°, 100%, 40%
HSV	28°, 100%, 80%
XYZ	28.6313, 20.7019, 2.4868
YIQ	115.8750, 95.1380, -6.1260

# Conversions

## Conversions Part 2

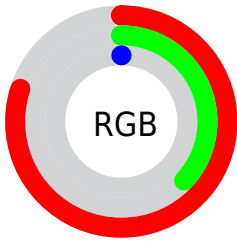
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">203, 175, 0</a>
Decimal	<a href="#">13327872</a>
CIELab	<a href="#">52.62, 39.39, 61.57</a>
CIElCh	<a href="#">53, 73.092, 57.389</a>
Yxy	<a href="#">20.7019, 0.5525, 0.3995</a>
Android (android.graphics.Color)	<a href="#">4291517952</a> ( <a href="#">0xFFCB5E00</a> )
YUV	<a href="#">115.8750, -57.1264, 76.4086</a>
Hunter-Lab	<a href="#">45.4993, 32.7006, 28.6090</a>

# Details

The XYZ color **28.6313, 20.7019, 2.4868** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed red. A complement of this color would be **16.2477, 15.2483, 58.5863**, and the grayscale version is **16.7121, 17.5824, 19.1472**.

A 20% lighter version of the original color is **52.4161, 42.1767, 10.0809**, and **11.8484, 7.3905, 0.8020** is the 20% darker color. If you saturate the color by 10%, you get **28.6315, 20.7027, 2.4870**, and if you desaturate by 10%, it is **29.7994, 22.8321, 3.5125**.

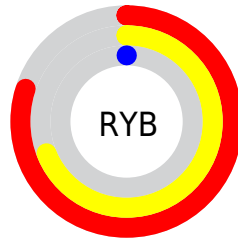
# Distribution



Red (80%)

Green (37%)

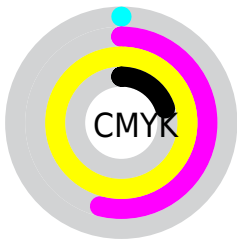
Blue (0%)



Red (80%)

Yellow (69%)

Blue (0%)

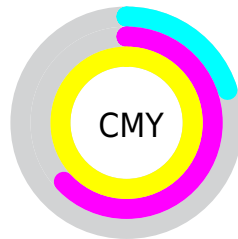


Cyan (0%)

Magenta (54%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (63%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.6313, 20.7019, 2.4868 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 28.6313, 20.7019, 2.4868 by changing the saturation by 10% instead.




 28.6313, 20.7019,  
2.4868


 28.6313, 20.7019,  
2.4868


287.4970,  
255.6900, 129.5289


 18.9450, 12.9063,  
0.8331


 56.8924, 44.5909,  
10.3334

 11.7343, 7.3640,  
0.0000


 76.1979, 61.4530,  
17.3693

 6.6339, 3.6908,  
0.0000


 99.4404, 82.1061,  
27.0383

 3.2785, 1.5021,  
0.0000

 126.9854,  
106.9346, 39.7590

 1.3027, 0.2902,  
0.0000

 159.1982,  
136.3228, 55.9498


 0.1852, 0.0000,  
0.0000


 196.4442,


 0.0000, 0.0000,


170.6552, 76.0294


0.0000


 239.0887,  
210.3161, 100.4163


 28.6313, 20.7019,  
2.4868


 28.6313, 20.7019,  
2.4868


 28.6315, 20.7027,  
2.4870

 29.7994, 22.8321,  
3.5125

 31.2448, 25.2998,  
5.2983

 33.0195, 28.1350,  
8.0916

 35.1531, 31.3573,  
12.0245

 37.6713, 34.9842,  
17.2089

■ 40.5968, 39.0320,  
23.7429

■ 43.9503, 43.5157,  
31.7149

■ 47.7510, 48.4496,  
41.2057

■ 52.0169, 53.8471,  
52.2900

# Harmonies

## Analogous

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



35.6779, 20.7019, 8.2670



28.6313, 20.7019, 2.4868



20.3485, 20.7019, 1.2650

# Triad

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



28.6313, 20.7019, 2.4868



8.4059, 20.7019, 20.6909



27.1787, 20.7019, 83.7006

# Complementary

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



28.6313, 20.7019, 2.4868



16.2477, 15.2483, 58.5863

# 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.



19.0195, 20.7019, 95.3263



28.6313, 20.7019, 2.4868



9.3587, 20.7019, 47.7383

# Square

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



28.6313, 20.7019, 2.4868



9.7694, 20.7019, 6.6906



12.8157, 20.7019, 79.2197



34.6990, 20.7019, 53.3830



# Rectangle

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



28.6313, 20.7019, 2.4868



15.6311, 20.7019, 1.5587



12.8157, 20.7019, 79.2197



24.3659, 20.7019, 90.5294

# Sweetspot

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



28.6317, 20.7031, 2.4871



73.3539, 72.5499, 52.5205



27.5337, 13.8586, 16.4515



15.1707, 14.8254, 9.9651



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.



28.6317, 20.7031, 2.4871



47.7285, 34.2369, 4.0928



43.6651, 50.7699, 7.4983



11.6333, 12.0556, 11.7933



18.3103, 13.3536, 1.6124



1.0203, 0.8402, 0.1084

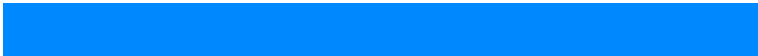


# Inverse Universe

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



16.2477, 15.2483, 58.5863



26.9836, 25.0871, 98.0279



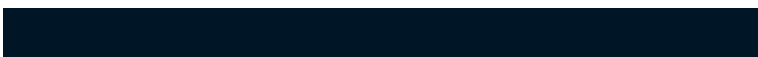
10.8897, 4.5322, 56.8003



11.0922, 11.8249, 14.2682



10.4319, 9.8879, 37.3150



0.6136, 0.6610, 1.9502



# Previews

## White Background



This preview shows how the XYZ color 28.6313, 20.7019, 2.4868 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 28.6313, 20.7019, 2.4868 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 28.6313, 20.7019, 2.4868**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.6313, 20.7019, 2.4868.



This preview shows how white text looks on a background with the XYZ color 28.6313, 20.7019,

2.4868.

# 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

28.6313, 20.7019, 2.4868

### Protanopia

18.8622, 20.9765, 3.6708

### Deuteranopia

21.0145, 20.8039, 2.9080



## Tritanopia

30.8376, 20.7285, 12.7316

# Trichromacy



## Original Color

28.6313, 20.7019, 2.4868

## Protanomaly

21.5069, 20.1805, 3.1095

## Deuteranomaly

23.3636, 20.4828, 2.7222

## Tritanomaly

29.6224, 20.6072, 6.5540

# Monochromacy



## Original Color

28.6313, 20.7019, 2.4868

## Achromatopsia

16.6002, 17.4647, 19.0191

## Achromatomaly

18.8113, 17.5154, 8.8679

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.6313, 20.7019, 2.4868 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(203, 94, 0)` looks like.

```
.text, #text, p{  
    color:rgb(203, 94, 0)  
}
```

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(203, 94, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 94, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 28.6313, 20.7019, 2.4868 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(203, 94, 0) }
```



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

```
.border{ border-color:rgb(203, 94, 0) }
```

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

Here you see how a box with a 4 pixel rgb(203, 94, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 94, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 94, 0);  
box-shadow:4px 4px 4px 4px rgb(203, 94, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 28.6313, 20.7019, 2.4868 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 94, 0) }
```

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

```
.background{ background-color: rgb(203, 94,  
0) }
```

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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