

# Converting Colors

XYZ(28.5677, 20.0195, 2.8487)

Have a look what the booklet for  
XYZ(28.5677, 20.0195, 2.8487)  
contains.

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# Color

**XYZ(28.5677, 20.0195,  
2.8487)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC5910
RGB	204, 89, 16
RGB Percent	80%, 35%, 6%
CMY	0.2000, 0.6510, 0.9372
CMYK	0.00, 0.56, 0.92, 0.20
HSL	23°, 85%, 43%
HSV	23°, 92%, 80%
XYZ	28.5677, 20.0195, 2.8487
YIQ	115.0630, 91.9730, 1.6770

# Conversions

## Conversions Part 2

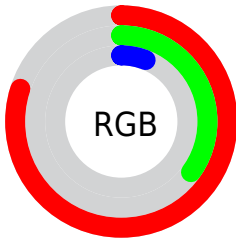
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 135, 16
Decimal	13392144
CIE <sub>Lab</sub>	51.86, 42.43, 57.63
CIE <sub>LCh</sub>	52, 71.561, 53.636
Yxy	20.0195, 0.5554, 0.3892
Android (android.graphics.Color)	4291582224 (0xFFCC5910)
YUV	115.0630, -48.8381, 77.9977
Hunter-Lab	44.7432, 35.6685, 27.5453

# Details

The XYZ color **28.5677, 20.0195, 2.8487** 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 **19.2285, 20.7013, 60.1085**, and the grayscale version is **16.4397, 17.2958, 18.8351**.

A 20% lighter version of the original color is **52.0185, 41.0482, 10.9758**, and **11.8169, 7.0739, 0.7426** is the 20% darker color. If you saturate the color by 10%, you get **27.7133, 18.4607, 2.1026**, and if you desaturate by 10%, it is **29.9272, 22.3690, 4.4419**.

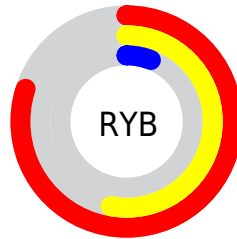
# Distribution



Red (80%)

Green (35%)

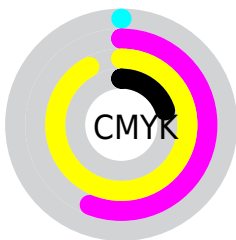
Blue (6%)



Red (80%)

Yellow (53%)

Blue (6%)

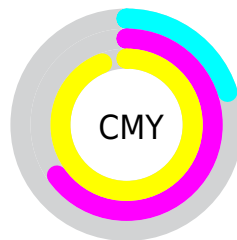


Cyan (0%)

Magenta (56%)

Yellow (92%)

Black (20%)



Cyan (20%)

Magenta (65%)


Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.5677, 20.0195, 2.8487 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 28.5677, 20.0195, 2.8487 by changing the saturation by 10% instead.





 28.5677, 20.0195,  
2.8487


 28.5677, 20.0195,  
2.8487

287.2009,  
252.0207, 134.4097


 18.8967, 12.4092,  
1.0179


 56.7919, 43.4499,  
11.2528

 11.6992, 7.0230,  
0.0000


 76.0757, 60.0388,  
18.6631

 6.6099, 3.4765,  
0.0000


 99.2945, 80.3893,  
28.7704

 3.2635, 1.3853,  
0.0000

 126.8137,  
104.8859, 41.9931

 1.2946, 0.2058,  
0.0000

 158.9986,  
133.9129, 58.7499


 0.1792, 0.0000,  
0.0000

 196.2145,


 0.0000, 0.0000,


167.8548, 79.4592


0.0000


 238.8268,  
207.0959, 104.5396


 28.5677, 20.0195,  
2.8487


 28.5677, 20.0195,  
2.8487


 27.7133, 18.4607,  
2.1026

 29.9272, 22.3690,  
4.4419

 31.6484, 25.1571,  
7.0330

 33.7658, 28.4108,  
10.7631

 36.3085, 32.1536,  
15.7500

 39.3026, 36.4068,  
22.0964

■ 42.7716, 41.1905,  
29.8945

■ 46.7374, 46.5233,  
39.2281

■ 51.2204, 52.4232,  
50.1748

■ 56.2397, 58.9069,  
62.8068

# Harmonies

## Analogous

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



34.9040, 20.0195, 9.3730



28.5677, 20.0195, 2.8487



20.6184, 20.0195, 1.3144

# Triad

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



28.5677, 20.0195, 2.8487



8.2495, 20.0195, 17.6581



25.1943, 20.0195, 82.8056

# Complementary

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



28.5677, 20.0195, 2.8487



19.2285, 20.7013, 60.1085

# 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.



17.5215, 20.0195, 90.6073



28.5677, 20.0195, 2.8487



8.8870, 20.0195, 42.0872

# Square

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



28.5677, 20.0195, 2.8487



9.8519, 20.0195, 5.6435



11.8905, 20.0195, 72.4739



32.6352, 20.0195, 55.1523



# Rectangle

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



28.5677, 20.0195, 2.8487



15.9217, 20.0195, 1.4545



11.8905, 20.0195, 72.4739



22.5139, 20.0195, 88.3490

# Sweetspot

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



28.5681, 20.0206, 2.8490



73.2253, 71.4548, 55.0606



29.2473, 14.8721, 23.1353



15.0853, 14.4972, 10.4215



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.



28.5681, 20.0206, 2.8490



45.7040, 30.1880, 3.4180



41.7367, 46.3578, 7.2386



11.5636, 11.9162, 11.7700



17.5276, 11.7881, 1.3515



0.9773, 0.7544, 0.0941

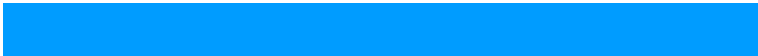


# Inverse Universe

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



19.2285, 20.7013, 60.1085



29.9346, 30.9893, 99.0115



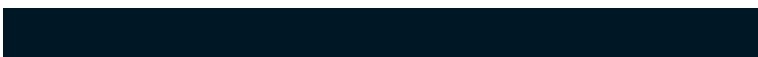
11.8038, 5.8520, 57.6336



11.1633, 11.9670, 14.2919



11.5512, 12.1263, 37.6881



0.6682, 0.7702, 1.9684



# Previews

## White Background



This preview shows how the XYZ color 28.5677, 20.0195, 2.8487 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 28.5677, 20.0195, 2.8487 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 28.5677, 20.0195, 2.8487**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.5677, 20.0195, 2.8487.



This preview shows how white text looks on a background with the XYZ color 28.5677, 20.0195,



# 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

28.5677, 20.0195, 2.8487

### Protanopia

18.3353, 20.3173, 3.9325

### Deuteranopia

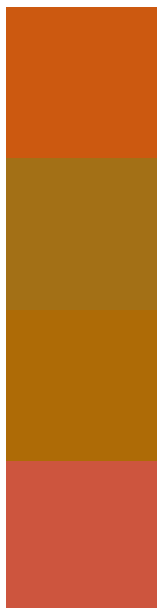
20.3831, 20.1250, 2.8102



## Tritanopia

30.3083, 20.0129, 11.4980

# Trichromacy



## Original Color

28.5677, 20.0195, 2.8487

## Protanomaly

21.0432, 19.4328, 3.4009

## Deuteranomaly

22.7461, 19.5272, 2.7426

## Tritanomaly

29.2948, 19.8239, 6.8398

# Monochromacy



## Original Color

28.5677, 20.0195, 2.8487

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

18.5979, 17.0756, 9.7128

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.5677, 20.0195, 2.8487 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(204, 89, 16)` looks like.

```
.text, #text, p{  
    color:rgb(204, 89, 16)  
}
```

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(204, 89, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 89, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 28.5677, 20.0195, 2.8487 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(204, 89, 16) }
```



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

```
.border{ border-color:rgb(204, 89, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 89, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 89, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 89, 16);  
box-shadow:4px 4px 4px 4px rgb(204, 89,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.5677, 20.0195, 2.8487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 89, 16) }
```

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

```
.background{ background-color: rgb(204, 89,  
16) }
```

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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