

# Converting Colors

XYZ(31.0808, 21.8560, 2.5805)

Have a look what the booklet for  
XYZ(31.0808, 21.8560, 2.5805)  
contains.

<b>XYZ(31.0657, 21.8258, 2.5754)</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(31.0657, 21.8258,  
2.5754)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D45D00
RGB	212, 93, 0
RGB Percent	83%, 36%, 0%
CMY	0.1686, 0.6353, 1.0000
CMYK	0.00, 0.56, 1.00, 0.17
HSL	26°, 100%, 42%
HSV	26°, 100%, 83%
XYZ	31.0657, 21.8258, 2.5754
YIQ	117.9790, 100.7770, -3.6950

# Conversions

## Conversions Part 2

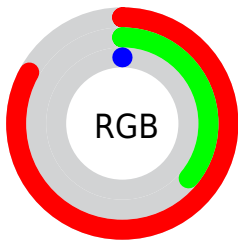
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	212, 166, 0
Decimal	13917440
CIE <sub>Lab</sub>	53.84, 43.37, 63.01
CIE <sub>LCh</sub>	54, 76.493, 55.456
Yxy	21.8258, 0.5601, 0.3935
Android (android.graphics.Color)	4292107520 (0xFFD45D00)
YUV	117.9790, -58.1636, 82.4564
Hunter-Lab	46.7181, 36.9388, 29.4342

# Details

The XYZ color **31.0657, 21.8258, 2.5754** 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 **18.4797, 17.9457, 64.7766**, and the grayscale version is **17.3687, 18.2732, 19.8995**.

A 20% lighter version of the original color is **52.4443, 42.1879, 10.2295**, and **13.1874, 7.9754, 0.8444** is the 20% darker color. If you saturate the color by 10%, you get **31.0660, 21.8267, 2.5756**, and if you desaturate by 10%, it is **32.3305, 24.1361, 3.6741**.

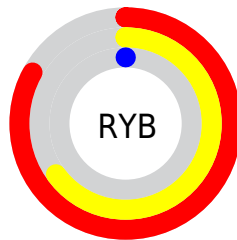
# Distribution



Red (83%)

Green (36%)

Blue (0%)



Red (83%)

Yellow (65%)

Blue (0%)

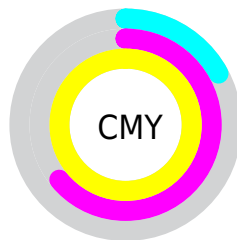


Cyan (0%)

Magenta (56%)

Yellow (100%)

Black (17%)



Cyan (17%)

Magenta (64%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0657, 21.8258, 2.5754 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 31.0657, 21.8258, 2.5754 by changing the saturation by 10% instead.



31.0657, 21.8258,  
2.5754

31.0657, 21.8258,  
2.5754

298.6624,  
261.6352, 130.7541

20.8010, 13.7290,  
0.8797

60.7186, 46.4579,  
10.5614

13.0902, 7.9324,  
0.0000

80.8375, 63.7620,  
17.6912

7.5681, 4.0517,  
0.0000

104.9719, 84.9039,  
27.4704

3.8693, 1.7025,  
0.0000

133.4870,  
110.2681, 40.3173

1.6285, 0.4253,  
0.0000

166.7482,  
140.2389, 56.6506


0.4109, 0.0000,  
0.0000


205.1210,


0.0000, 0.0000,


175.2008, 76.8888


0.0000


 248.9706,  
215.5381, 101.4505


 31.0657, 21.8258,  
2.5754

 31.0657, 21.8258,  
2.5754


 31.0660, 21.8267,  
2.5756

 32.3305, 24.1361,  
3.6741

 33.9150, 26.8445,  
5.6225

 35.8768, 29.9857,  
8.6883

 38.2497, 33.5832,  
13.0195

 41.0630, 37.6581,  
18.7409

■ 44.3429, 42.2301,  
25.9620

■ 48.1131, 47.3174,  
34.7816

■ 52.3957, 52.9371,  
45.2896

■ 57.2111, 59.1054,  
57.5693

# Harmonies

## Analogous

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



38.5493, 21.8258, 9.1302



31.0657, 21.8258, 2.5754



22.0231, 21.8258, 1.1724

# Triad

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



31.0657, 21.8258, 2.5754



8.6368, 21.8258, 20.3538



28.3108, 21.8258, 92.5945

# Complementary

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



31.0657, 21.8258, 2.5754



18.4797, 17.9457, 64.7766

# 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.



19.5169, 21.8258, 103.5330



31.0657, 21.8258, 2.5754



9.4919, 21.8258, 49.0283

# Square

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



31.0657, 21.8258, 2.5754



10.2554, 21.8258, 6.2237



13.0078, 21.8258, 83.9906



36.6863, 21.8258, 59.8061



# Rectangle

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



31.0657, 21.8258, 2.5754



16.8096, 21.8258, 1.3853



13.0078, 21.8258, 83.9906



25.2507, 21.8258, 99.5952

# Sweetspot

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



31.0662, 21.8270, 2.5758



72.8850, 71.6122, 52.3642



30.5494, 15.3563, 19.1659



15.0604, 14.6047, 9.9283



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.



31.0662, 21.8270, 2.5758



47.0200, 32.8200, 3.8567



47.3146, 54.3238, 7.9919



12.8670, 13.3083, 13.0513



19.2749, 13.6670, 1.6221



1.2442, 0.9875, 0.1250



# Inverse Universe

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



18.4797, 17.9457, 64.7766



27.8918, 26.9036, 98.3306



12.0425, 5.0712, 62.6308



12.3150, 13.1535, 15.8273



11.5098, 11.2814, 40.0240



0.7760, 0.8440, 2.4413



# Previews

## White Background



This preview shows how the XYZ color 31.0657, 21.8258, 2.5754 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 31.0657, 21.8258, 2.5754 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 31.0657, 21.8258, 2.5754**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.0657, 21.8258, 2.5754.



This preview shows how white text looks on a background with the XYZ color 31.0657, 21.8258,

2.5754.

# 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

31.0657, 21.8258, 2.5754

### Protanopia

19.9630, 22.1268, 3.8806

### Deuteranopia

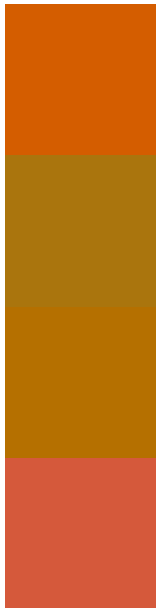
22.1872, 21.9524, 3.0679



## Tritanopia

33.0715, 21.8852, 12.6064

# Trichromacy



## Original Color

31.0657, 21.8258, 2.5754

## Protanomaly

23.0115, 21.2977, 3.2788

## Deuteranomaly

24.8502, 21.4121, 2.8232

## Tritanomaly

31.8024, 21.6067, 6.6320

# Monochromacy



## Original Color

31.0657, 21.8258, 2.5754

## Achromatopsia

17.2197, 18.1164, 19.7288

## Achromatomaly

19.6875, 18.1207, 9.1166

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.0657, 21.8258, 2.5754 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(212, 93, 0)` looks like.

```
.text, #text, p{  
    color:rgb(212, 93, 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(212, 93, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 93, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.0657, 21.8258, 2.5754 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(212, 93, 0) }
```



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

```
.border{ border-color:rgb(212, 93, 0) }
```

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

Here you see how a box with a 4 pixel rgb(212, 93, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 93, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 93, 0);  
box-shadow:4px 4px 4px 4px rgb(212, 93, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.0657, 21.8258, 2.5754 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 93, 0) }
```

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

```
.background{ background-color: rgb(212, 93,  
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](#).

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