

# Converting Colors

XYZ(31.9196, 20.4722, 2.2692)

Have a look what the booklet for  
XYZ(31.9196, 20.4722, 2.2692)  
contains.

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# Color

**XYZ(31.9378, 20.5088,  
2.2753)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DB4E00
RGB	219, 78, 0
RGB Percent	86%, 31%, 0%
CMY	0.1412, 0.6941, 1.0000
CMYK	0.00, 0.64, 1.00, 0.14
HSL	21°, 100%, 43%
HSV	21°, 100%, 86%
XYZ	31.9378, 20.5088, 2.2753
YIQ	111.2670, 109.0740, 5.6340

# Conversions

## Conversions Part 2

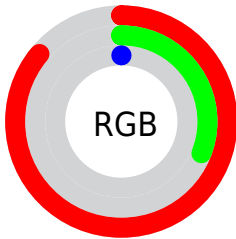
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">219, 121, 0</a>
Decimal	<a href="#">14372352</a>
<a href="#">CIELab</a>	<a href="#">52.41, 52.75, 62.86</a>
<a href="#">CIELCh</a>	<a href="#">52, 82.057, 49.996</a>
<a href="#">Yxy</a>	<a href="#">20.5088, 0.5836, 0.3748</a>
Android (android.graphics.Color)	<a href="#">4292562432</a> ( <a href="#">0xFFDB4E00</a> )
<a href="#">YUV</a>	<a href="#">111.2670, -54.8546, 94.4818</a>
<a href="#">Hunter-Lab</a>	<a href="#">45.2866, 46.6331, 28.7218</a>

# Details

The XYZ color **31.9378, 20.5088, 2.2753** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **22.3102, 24.1627, 70.5053**, and the grayscale version is **15.3205, 16.1184, 17.5529**.

A 20% lighter version of the original color is **50.4970, 38.3829, 9.3046**, and **13.6884, 7.3102, 0.6896** is the 20% darker color. If you saturate the color by 10%, you get **31.9380, 20.5096, 2.2754**, and if you desaturate by 10%, it is **33.1936, 22.7906, 3.4037**.

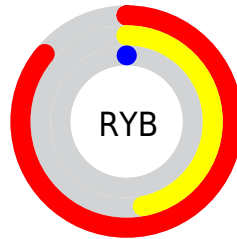
# Distribution



Red (86%)

Green (31%)

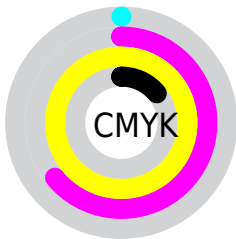
Blue (0%)



Red (86%)

Yellow (47%)

Blue (0%)

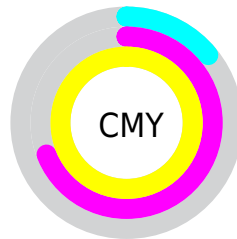


Cyan (0%)

Magenta (64%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (69%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9378, 20.5088, 2.2753 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 31.9378, 20.5088, 2.2753 by changing the saturation by 10% instead.





 31.9378, 20.5088,  
2.2753


 31.9378, 20.5088,  
2.2753


302.5861,  
254.6564, 126.5150


 21.4693, 12.7654,  
0.7173


 62.0794, 44.2686,  
9.7806

 13.5819, 7.2672,  
0.0000


 82.4833, 61.0538,  
16.5856

 7.9102, 3.6298,  
0.0000


 106.9296, 81.6218,  
25.9834

 4.0889, 1.4687,  
0.0000

 135.7838,  
106.3568, 38.3927

 1.7525, 0.2665,  
0.0000

 169.4112,  
135.6435, 54.2319

 0.4888, 0.0000,  
0.0000


 208.1771,


 0.0000, 0.0000,


169.8660, 73.9197


0.0000


 252.4470,  
209.4088, 97.8746


 31.9378, 20.5088,  
2.2753


 31.9378, 20.5088,  
2.2753


 31.9380, 20.5096,  
2.2754

 33.1936, 22.7906,  
3.4037

 34.8396, 25.5912,  
5.4670

 36.9413, 28.9567,  
8.7508

 39.5396, 32.9207,  
13.4171

 42.6701, 37.5137,  
19.6026

■ 46.3645, 42.7639,  
27.4271

■ 50.6519, 48.6974,  
36.9986

■ 55.5591, 55.3390,  
48.4157

■ 61.1112, 62.7121,  
61.7694

# Harmonies

## Analogous

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



39.1341, 20.5088, 9.8836



31.9378, 20.5088, 2.2753



22.4588, 20.5088, 0.6675

# Triad

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



31.9378, 20.5088, 2.2753



7.4572, 20.5088, 15.1734



25.6046, 20.5088, 101.0042

# Complementary

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



31.9378, 20.5088, 2.2753



22.3102, 24.1627, 70.5053

# 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.



16.8005, 20.5088, 106.8608



31.9378, 20.5088, 2.2753



7.8506, 20.5088, 42.3615

# Square

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



31.9378, 20.5088, 2.2753



9.4955, 20.5088, 3.7715



10.7913, 20.5088, 80.4395



34.8054, 20.5088, 67.6896



# Rectangle

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



31.9378, 20.5088, 2.2753



16.8023, 20.5088, 0.6674



10.7913, 20.5088, 80.4395



22.4567, 20.5088, 106.8636

# Sweetspot

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



31.9382, 20.5100, 2.2756



71.3371, 68.5162, 51.8483



34.1221, 17.0236, 27.2170



14.6978, 13.8795, 9.8074



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.



31.9382, 20.5100, 2.2756



44.9665, 28.7130, 3.1722



46.8038, 50.2410, 7.2308



13.4337, 13.8067, 13.6825



19.0320, 12.3495, 1.3806



1.3127, 0.9595, 0.1160

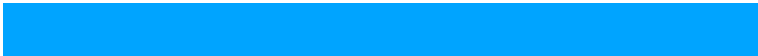


# Inverse Universe

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



22.3102, 24.1627, 70.5053



31.3560, 33.8321, 99.4853



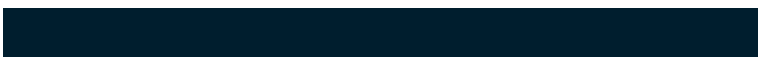
13.3259, 6.1941, 67.5105



13.0344, 14.0086, 16.6691



13.3357, 14.5408, 41.8422



0.9442, 1.1024, 2.7375



# Previews

## White Background



This preview shows how the XYZ color 31.9378, 20.5088, 2.2753 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 31.9378, 20.5088, 2.2753 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 31.9378, 20.5088, 2.2753**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9378, 20.5088, 2.2753.



This preview shows how white text looks on a background with the XYZ color 31.9378, 20.5088,



# 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

31.9378, 20.5088, 2.2753

### Protanopia

18.7708, 20.7344, 3.8234

### Deuteranopia

20.8949, 20.5646, 2.8681



## **Tritanopia**

33.5409, 20.6731, 9.2437

# Trichromacy



## Original Color

31.9378, 20.5088, 2.2753

## Protanomaly

22.1324, 19.5178, 3.0527

## Deuteranomaly

24.0064, 19.7244, 2.5419

## Tritanomaly

32.5857, 20.4695, 5.1393

# Monochromacy



## Original Color

31.9378, 20.5088, 2.2753

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

18.1768, 15.8626, 8.0650

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9378, 20.5088, 2.2753 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(219, 78, 0)` looks like.

```
.text, #text, p{  
    color:rgb(219, 78, 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(219, 78, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 78, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9378, 20.5088, 2.2753 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(219, 78, 0) }
```



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

```
.border{ border-color:rgb(219, 78, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 78, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 78, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 78, 0);  
box-shadow:4px 4px 4px 4px rgb(219, 78, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.9378, 20.5088, 2.2753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 78, 0) }
```

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

```
.background{ background-color: rgb(219, 78,  
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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