

# Converting Colors

XYZ(31.1683, 22.7537, 4.0336)

Have a look what the booklet for  
XYZ(31.1683, 22.7537, 4.0336)  
contains.

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# Color

**XYZ(31.0990, 22.7686,  
4.0520)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D1641F
RGB	209, 100, 31
RGB Percent	82%, 39%, 12%
CMY	0.1804, 0.6078, 0.8784
CMYK	0.00, 0.52, 0.85, 0.18
HSL	23°, 74%, 47%
HSV	23°, 85%, 82%
XYZ	31.0990, 22.7686, 4.0520
YIQ	124.7250, 87.1130, 1.6490

# Conversions

## Conversions Part 2

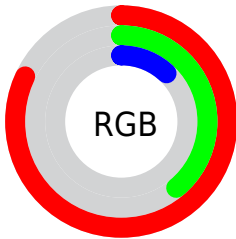
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	209, 144, 31
Decimal	13722655
CIE Lab	54.83, 39.22, 55.35
CIE LCh	55, 67.842, 54.678
Yxy	22.7686, 0.5369, 0.3931
Android (android.graphics.Color)	4291912735 (0xFFD1641F)
YUV	124.7250, -46.2064, 73.9092
Hunter-Lab	47.7165, 32.8328, 28.3667

# Details

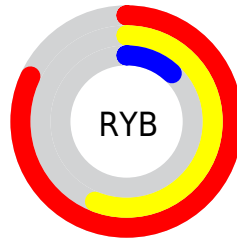
The XYZ color **31.0990, 22.7686, 4.0520** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **21.4510, 23.6493, 63.7553**, and the grayscale version is **19.5312, 20.5483, 22.3771**.

A 20% lighter version of the original color is **54.1542, 44.6517, 13.7470**, and **13.1309, 8.3997, 0.9292** is the 20% darker color. If you saturate the color by 10%, you get **29.7748, 20.4277, 2.6637**, and if you desaturate by 10%, it is **32.7953, 25.5690, 6.4441**.

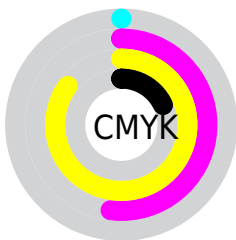
# Distribution



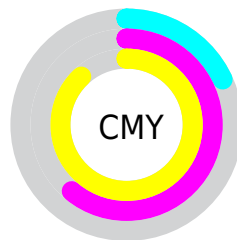
- Red (82%)
- Green (39%)
- Blue (12%)



- Red (82%)
- Yellow (56%)
- Blue (12%)



- Cyan (0%)
- Magenta (52%)
- Yellow (85%)
- Black (18%)




- Cyan (18%)
- Magenta (61%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0990, 22.7686, 4.0520 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 31.0990, 22.7686, 4.0520 by changing the saturation by 10% instead.





 31.0990, 22.7686,  
4.0520

 31.0990, 22.7686,  
4.0520


298.8129,  
266.5342, 148.8016


 20.8264, 14.4227,  
1.6539


 60.7707, 48.0131,  
14.1295


 13.1089, 8.4153,  
0.3289


 80.9005, 65.6805,  
22.6460


 7.5811, 4.3618,  
0.0000


 105.0468, 87.2239,  
34.0391

 3.8776, 1.8779,  
0.0000

 133.5750,  
113.0276, 48.7272

 1.6331, 0.5351,  
0.0000

 166.8503,  
143.4762, 67.1290

 0.4139, 0.0000,  
0.0000

 205.2381,

 0.0000, 0.0000,

178.9538, 89.6630

0.0000

249.1039,  
219.8451, 116.7477

31.0990, 22.7686,  
4.0520

31.0990, 22.7686,  
4.0520

29.7748, 20.4277,  
2.6637

32.7953, 25.5690,  
6.4441

29.2385, 19.4436,  
2.2119

34.9004, 28.8538,  
9.9989

37.4473, 32.6499,  
14.8481

40.4644, 36.9807,  
21.1052

43.9775, 41.8678,  
28.8709

■ 48.0103, 47.3315,  
38.2367

■ 52.5850, 53.3912,  
49.2869

■ 57.7223, 60.0650,  
62.0996

■ 63.4415, 67.3703,  
76.7481

# Harmonies

## Analogous

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



37.5742, 22.7686, 11.2329



31.0990, 22.7686, 4.0520



23.0067, 22.7686, 2.2125

# Triad

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



31.0990, 22.7686, 4.0520



10.2206, 22.7686, 21.1531



28.2401, 22.7686, 84.4712

# Complementary

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



31.0990, 22.7686, 4.0520



21.4510, 23.6493, 63.7553

# 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.



20.3302, 22.7686, 92.8764



31.0990, 22.7686, 4.0520



11.0010, 22.7686, 46.3510

# Square

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



31.0990, 22.7686, 4.0520



11.8755, 22.7686, 7.7547



14.3258, 22.7686, 76.0878



35.6742, 22.7686, 57.1717



# Rectangle

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



31.0990, 22.7686, 4.0520



18.1875, 22.7686, 2.4546



14.3258, 22.7686, 76.0878



25.5059, 22.7686, 90.0822

# Sweetspot

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



31.0995, 22.7699, 4.0524



74.5414, 73.2184, 58.1774



31.5747, 16.4515, 26.6198



15.4674, 15.0145, 11.3100



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.



31.0995, 22.7699, 4.0524



45.6883, 30.1566, 3.4128



44.5747, 49.7202, 8.5441



12.1792, 12.5490, 12.3923



18.1168, 12.1666, 1.3935



1.0891, 0.8325, 0.1033

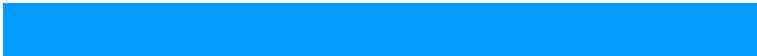


# Inverse Universe

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



21.4510, 23.6493, 63.7553



29.9625, 31.0450, 99.0208



13.2914, 7.3301, 61.0355



11.7575, 12.6054, 15.0570



11.9515, 12.5497, 38.9849



0.7440, 0.8532, 2.2050



# Previews

## White Background



This preview shows how the XYZ color 31.0990, 22.7686, 4.0520 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 31.0990, 22.7686, 4.0520 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 31.0990, 22.7686, 4.0520**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.0990, 22.7686, 4.0520.



This preview shows how white text looks on a background with the XYZ color 31.0990, 22.7686,



# 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

31.0990, 22.7686, 4.0520

### Protanopia

20.8302, 22.9449, 5.2504

### Deuteranopia

23.1607, 22.8147, 3.7133



## Tritanopia

33.3660, 22.7459, 14.6884

# Trichromacy



## Original Color

31.0990, 22.7686, 4.0520

## Protanomaly

23.6125, 22.1064, 4.6915

## Deuteranomaly

25.6816, 22.4938, 3.7472

## Tritanomaly

32.3168, 22.7226, 9.3392

# Monochromacy



## Original Color

31.0990, 22.7686, 4.0520

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

21.8440, 20.3140, 12.6672

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.0990, 22.7686, 4.0520 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(209, 100, 31)` looks like.

```
.text, #text, p{  
    color:rgb(209, 100, 31)  
}
```

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(209, 100, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 100, 31) }
```

## Border

The CSS property to change the border of an element to XYZ 31.0990, 22.7686, 4.0520 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(209, 100, 31) }
```



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

```
.border{ border-color:rgb(209, 100, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(209, 100, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 100, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 100, 31);  
box-shadow:4px 4px 4px 4px rgb(209, 100,  
31) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.0990, 22.7686, 4.0520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 100, 31) }
```

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

```
.background{ background-color: rgb(209,  
100, 31) }
```

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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