

# Converting Colors

XYZ(36.6494, 31.2668, 7.7649)

Have a look what the booklet for  
XYZ(36.6494, 31.2668, 7.7649)  
contains.

<b>XYZ(36.5177, 31.1970, 7.7114)</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(36.5177, 31.1970,  
7.7114)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D58537
RGB	213, 133, 55
RGB Percent	84%, 52%, 22%
CMY	0.1647, 0.4784, 0.7843
CMYK	0.00, 0.38, 0.74, 0.16
HSL	30°, 65%, 53%
HSV	30°, 74%, 84%
XYZ	36.5177, 31.1970, 7.7114
YIQ	148.0280, 72.7180, -7.2980

# Conversions

## Conversions Part 2

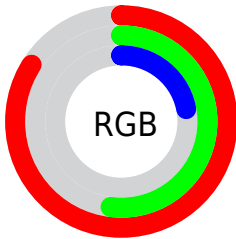
Format	Color
R <sub>Y</sub> B	213, 209, 55
Decimal	13993271
CIE Lab	62.67, 24.38, 52.90
CIE LCh	63, 58.244, 65.256
Yxy	31.1970, 0.4842, 0.4136
Android (android.graphics.Color)	4292183351 (0xFFD58537)
YUV	148.0280, -45.8628, 56.9804
Hunter-Lab	55.8543, 18.9589, 30.9122

# Details

The XYZ color **36.5177, 31.1970, 7.7114** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **22.2493, 22.9432, 66.2062**, and the grayscale version is **28.3249, 29.8000, 32.4522**.

A 20% lighter version of the original color is **61.4004, 57.4184, 21.4824**, and **16.2301, 12.9588, 1.6459** is the 20% darker color. If you saturate the color by 10%, you get **34.7117, 28.2335, 5.1111**, and if you desaturate by 10%, it is **38.6970, 34.5551, 11.5230**.

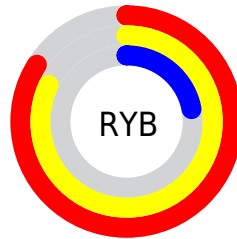
# Distribution



Red (84%)

Green (52%)

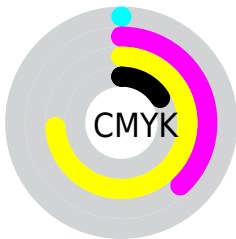
Blue (22%)



Red (84%)

Yellow (82%)

Blue (22%)

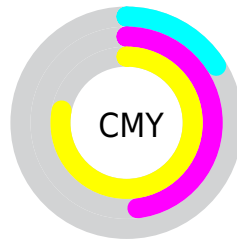


Cyan (0%)

Magenta (38%)

Yellow (74%)

Black (16%)



Cyan (16%)

Magenta (48%)

Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.5177, 31.1970, 7.7114 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 36.5177, 31.1970, 7.7114 by changing the saturation by 10% instead.



36.5177, 31.1970,  
7.7114

36.5177, 31.1970,  
7.7114

322.6096,  
307.4449, 183.2998

25.0062, 20.7489,  
3.8257

69.1490, 61.5501,  
21.9275

16.2105, 12.9406,  
1.5302

90.9996, 82.2239,  
33.0949

9.7650, 7.3876,  
0.2403

117.0273,  
107.0750, 47.5267

5.3045, 3.7057,  
0.0000

147.5975,  
136.4879, 65.6414

2.4636, 1.5103,  
0.0000

183.0754,  
170.8470, 87.8575

0.8769, 0.2960,  
0.0000

223.8265,

0.0000, 0.0000,

210.5365, 114.5936

0.0000

270.2161,  
255.9410, 146.2682

■ 36.5177, 31.1970,  
7.7114

■ 36.5177, 31.1970,  
7.7114

■ 34.7117, 28.2335,  
5.1111

■ 38.6970, 34.5551,  
11.5230

■ 33.2416, 25.6382,  
3.5575

■ 41.2769, 38.3216,  
16.6784

■ 32.5081, 24.2815,  
2.9734

■ 44.2842, 42.5153,  
23.2943

■ 47.7423, 47.1520,  
31.4743

■ 51.6726, 52.2465,  
41.3121

■ 56.0951, 57.8128,  
52.8944

■ 61.0285, 63.8640,  
66.3015

■ 66.4903, 70.4130,  
81.6089

■ 72.4973, 77.4718,  
98.8875

# Harmonies

## Analogous

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



43.9597, 31.1970, 14.4535



36.5177, 31.1970, 7.7114



28.2741, 31.1970, 6.3710

# Triad

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



36.5177, 31.1970, 7.7114



16.8912, 31.1970, 38.1363



39.3744, 31.1970, 83.6921

# Complementary

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



36.5177, 31.1970, 7.7114



22.2493, 22.9432, 66.2062

# 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.



31.0735, 31.1970, 98.8278



36.5177, 31.1970, 7.7114



18.8436, 31.1970, 66.0036

# Square

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



36.5177, 31.1970, 7.7114



17.8279, 31.1970, 18.7476



23.7054, 31.1970, 91.2192



45.8047, 31.1970, 55.7723



# Rectangle

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



36.5177, 31.1970, 7.7114



23.5990, 31.1970, 7.7730



23.7054, 31.1970, 91.2192



36.6600, 31.1970, 90.9004

# Sweetspot

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



36.5184, 31.1986, 7.7120



78.8961, 80.0967, 65.2739



33.2959, 18.6743, 25.3792



16.5167, 16.6720, 13.0197



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.



36.5184, 31.1986, 7.7120



50.8423, 40.1282, 6.1676



51.2672, 60.6961, 12.6282



12.9245, 13.4232, 13.0705



19.9594, 15.0360, 1.8503



1.2866, 1.0724, 0.1392



# Inverse Universe

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



22.2493, 22.9432, 66.2062



28.3459, 27.0988, 98.3443



15.0806, 8.6059, 63.8167



12.2571, 13.0376, 15.8080



10.7043, 9.6704, 39.7556



0.7284, 0.7488, 2.4255



# Previews

## White Background



This preview shows how the XYZ color 36.5177, 31.1970, 7.7114 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 36.5177, 31.1970, 7.7114 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

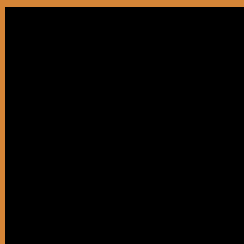
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 36.5177, 31.1970, 7.7114**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.5177, 31.1970, 7.7114.



This preview shows how white text looks on a background with the XYZ color 36.5177, 31.1970,



# 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

36.5177, 31.1970, 7.7114

### Protanopia

28.4060, 31.2177, 8.8034

### Deuteranopia

31.8060, 31.1327, 7.4648



## Tritanopia

40.5501, 31.2939, 26.4574

# Trichromacy



**Original Color**

36.5177, 31.1970, 7.7114

**Protanomaly**

30.8967, 30.8706, 8.3332

**Deuteranomaly**

33.2866, 31.0099, 7.4799

**Tritanomaly**

38.5879, 31.0572, 17.3254

# Monochromacy



**Original Color**

36.5177, 31.1970, 7.7114

**Achromatopsia**

28.1479, 29.6138, 32.2495

**Achromatomaly**

29.8730, 29.6305, 20.0644

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.5177, 31.1970, 7.7114 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(213, 133, 55)` looks like.

```
.text, #text, p{  
    color:rgb(213, 133, 55)  
}
```

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(213, 133, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 133, 55) }
```

## Border

The CSS property to change the border of an element to XYZ 36.5177, 31.1970, 7.7114 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(213, 133, 55) }
```



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

```
.border{ border-color:rgb(213, 133, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 133, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 133, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 133, 55);  
box-shadow:4px 4px 4px 4px rgb(213, 133,  
55) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.5177, 31.1970, 7.7114 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 133, 55) }
```

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

```
.background{ background-color: rgb(213,  
133, 55) }
```

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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