

# Converting Colors

XYZ(31.7501, 21.8943, 4.9173)

Have a look what the booklet for  
XYZ(31.7501, 21.8943, 4.9173)  
contains.

<b>XYZ(31.6363, 21.8102, 4.9252)</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(31.6363, 21.8102,  
4.9252)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D55B2C
RGB	213, 91, 44
RGB Percent	84%, 36%, 17%
CMY	0.1647, 0.6431, 0.8274
CMYK	0.00, 0.57, 0.79, 0.16
HSL	17°, 67%, 50%
HSV	17°, 79%, 84%
XYZ	31.6363, 21.8102, 4.9252
YIQ	122.1200, 87.7990, 11.2470

# Conversions

## Conversions Part 2

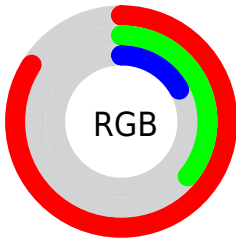
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	213, 109, 44
Decimal	13982508
CIE <sub>Lab</sub>	53.83, 45.54, 49.13
CIE <sub>LCh</sub>	54, 66.990, 47.168
Yxy	21.8102, 0.5420, 0.3736
Android (android.graphics.Color)	4292172588 (0xFFD55B2C)
YUV	122.1200, -38.5132, 79.7018
Hunter-Lab	46.7014, 39.1914, 26.4382

# Details

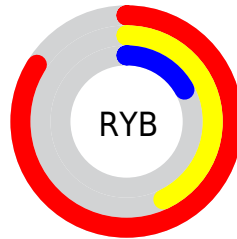
The XYZ color **31.6363, 21.8102, 4.9252** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed red. A complement of this color would be **26.6837, 32.6092, 67.8382**, and the grayscale version is **18.6406, 19.6114, 21.3568**.

A 20% lighter version of the original color is **53.1890, 41.9968, 15.6588**, and **13.4556, 7.9655, 0.8283** is the 20% darker color. If you saturate the color by 10%, you get **30.1513, 19.3251, 2.9360**, and if you desaturate by 10%, it is **33.5969, 24.9184, 8.0859**.

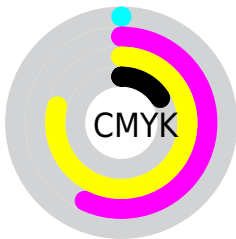
# Distribution



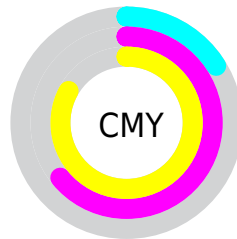
- Red (84%)
- Green (36%)
- Blue (17%)



- Red (84%)
- Yellow (43%)
- Blue (17%)



- Cyan (0%)
- Magenta (57%)
- Yellow (79%)
- Black (16%)




- Cyan (16%)
- Magenta (64%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6363, 21.8102, 4.9252 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 31.6363, 21.8102, 4.9252 by changing the saturation by 10% instead.





 31.6363, 21.8102,  
4.9252


 31.6363, 21.8102,  
4.9252


301.2339,  
261.5535, 158.0123


 21.2381, 13.7175,  
2.1455


 61.6095, 46.4321,  
16.0929


 13.4116, 7.9244,  
0.6426


 81.9152, 63.7301,  
25.3179

 7.7915, 4.0466,  
0.0000


 106.2541, 84.8653,  
37.5284

 4.0125, 1.6997,  
0.0000

 134.9916,  
110.2221, 53.1429

 1.7092, 0.4235,  
0.0000

 168.4929,  
140.1850, 72.5800

 0.4620, 0.0000,  
0.0000

 207.1235,

 0.0000, 0.0000,

175.1382, 96.2583

0.0000

251.2487,  
215.4663, 124.5962

■ 31.6363, 21.8102,  
4.9252

■ 31.6363, 21.8102,  
4.9252

■ 30.1513, 19.3251,  
2.9360

■ 33.5969, 24.9184,  
8.0859

■ 29.0774, 17.4078,  
1.8677

■ 36.0743, 28.6875,  
12.5675

■ 29.0170, 17.2993,  
1.8097

■ 39.1066, 33.1561,  
18.4983

■ 42.7273, 38.3585,  
25.9909

■ 46.9672, 44.3269,  
35.1465

■ 51.8548, 51.0913,  
46.0580

■ 57.4169, 58.6801,  
58.8111

■ 63.6785, 67.1202,  
73.4861

■ 70.6635, 76.4373,  
90.1584

# Harmonies

## Analogous

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



36.9672, 21.8102, 13.8626



31.6363, 21.8102, 4.9252



23.9586, 21.8102, 2.2733

# Triad

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



31.6363, 21.8102, 4.9252



9.9506, 21.8102, 15.9866



25.0902, 21.8102, 85.3298

# Complementary

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



31.6363, 21.8102, 4.9252



26.6837, 32.6092, 67.8382

# 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.



17.8052, 21.8102, 87.1643



31.6363, 21.8102, 4.9252



10.1177, 21.8102, 37.4767

# Square

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



31.6363, 21.8102, 4.9252



12.1456, 21.8102, 5.7064



12.6716, 21.8102, 66.2972



32.6283, 21.8102, 62.1799



# Rectangle

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



31.6363, 21.8102, 4.9252



19.0502, 21.8102, 2.1339



12.6716, 21.8102, 66.2972



22.5057, 21.8102, 88.7927

# Sweetspot

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



31.6368, 21.8114, 4.9256



74.2054, 71.6466, 60.8394



35.4027, 18.7721, 38.7706



15.3302, 14.5681, 11.7944



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.



31.6368, 21.8114, 4.9256



44.1894, 27.0451, 3.2636



42.9474, 44.4327, 8.6958



12.7016, 12.9775, 12.9962



17.7994, 10.7161, 1.1303



1.1432, 0.7855, 0.0914



# Inverse Universe

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



26.6837, 32.6092, 67.8382



36.1141, 43.1072, 101.0248



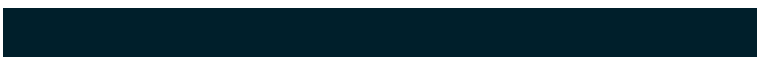
16.1755, 11.5927, 64.3354



12.4866, 13.4967, 15.8845



14.4601, 17.1820, 41.0075

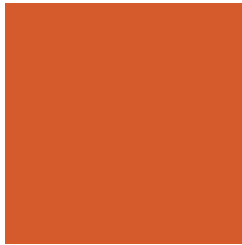


0.9401, 1.1723, 2.4960



# Previews

## White Background



This preview shows how the XYZ color 31.6363, 21.8102, 4.9252 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 31.6363, 21.8102, 4.9252 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

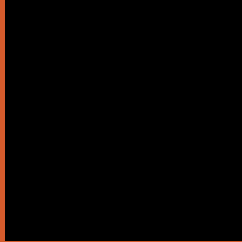
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.6363, 21.8102, 4.9252**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6363, 21.8102, 4.9252.



This preview shows how white text looks on a background with the XYZ color 31.6363, 21.8102,



# 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

31.6363, 21.8102, 4.9252

### Protanopia

20.0414, 21.9056, 6.7863

### Deuteranopia

22.2720, 21.9628, 4.5788



## Tritanopia

33.2404, 21.8580, 12.3646

# Trichromacy



## Original Color

31.6363, 21.8102, 4.9252

## Protanomaly

23.0905, 20.9355, 5.9559

## Deuteranomaly

25.0903, 21.3326, 4.6289

## Tritanomaly

32.4573, 21.7700, 8.9699

# Monochromacy



## Original Color

31.6363, 21.8102, 4.9252

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

21.2224, 19.1456, 13.1666

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6363, 21.8102, 4.9252 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, 91, 44)` looks like.

```
.text, #text, p{  
    color:rgb(213, 91, 44)  
}
```

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, 91, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 91, 44) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6363, 21.8102, 4.9252 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, 91, 44) }
```



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

```
.border{ border-color:rgb(213, 91, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 91, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 91, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 91, 44);  
box-shadow:4px 4px 4px 4px rgb(213, 91,  
44) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6363, 21.8102, 4.9252 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 91, 44) }
```

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

```
.background{ background-color: rgb(213, 91,  
44) }
```

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