

# Converting Colors

XYZ(31.6977, 35.5213, 8.1978)

Have a look what the booklet for  
XYZ(31.6977, 35.5213, 8.1978)  
contains.

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# Color

**XYZ(31.6275, 35.4181,  
8.1870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1A232
RGB	177, 162, 50
RGB Percent	69%, 64%, 20%
CMY	0.3059, 0.3647, 0.8039
CMYK	0.00, 0.08, 0.72, 0.31
HSL	53°, 56%, 45%
HSV	53°, 72%, 69%
XYZ	31.6275, 35.4181, 8.1870
YIQ	153.7170, 44.8920, -31.6520

# Conversions

## Conversions Part 2

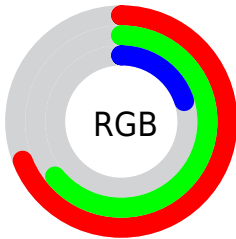
<b>Format</b>	<b>Color</b>
<b>RYB</b>	67, 177, 50
Decimal	11641394
CIELab	66.07, -7.28, 57.09
CIELCh	66, 57.553, 97.269
Yxy	35.4181, 0.4204, 0.4708
Android (android.graphics.Color)	4289831474 (0xFFB1A232)
YUV	153.7170, -51.1325, 20.4192
Hunter-Lab	59.5131, -9.2863, 33.5029

# Details

The XYZ color **31.6275, 35.4181, 8.1870** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **11.1415, 7.6328, 42.4807**, and the grayscale version is **30.7952, 32.3989, 35.2824**.

A 20% lighter version of the original color is **61.5725, 68.2874, 23.0323**, and **13.5696, 15.4338, 2.2638** is the 20% darker color. If you saturate the color by 10%, you get **30.9523, 34.5652, 6.4286**, and if you desaturate by 10%, it is **32.4581, 36.3456, 10.7262**.

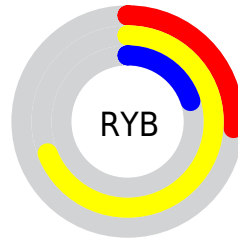
# Distribution



Red (69%)

Green (64%)

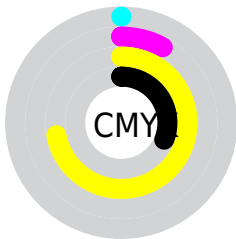
Blue (20%)



Red (26%)

Yellow (69%)

Blue (20%)

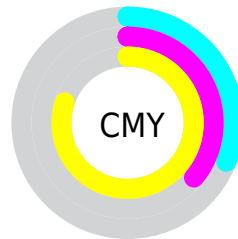


Cyan (0%)

Magenta (8%)

Yellow (72%)

Black (31%)



Cyan (31%)

Magenta (36%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6275, 35.4181, 8.1870 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 31.6275, 35.4181, 8.1870 by changing the saturation by 10% instead.





 31.6275, 35.4181,  
8.1870


 31.6275, 35.4181,  
8.1870

301.1944,  
326.4100, 187.1805


 21.2313, 23.9851,  
4.1254


 61.5958, 68.1330,  
22.8764


 13.4066, 15.3226,  
1.6944


 81.8986, 90.1836,  
34.3413

 7.7881, 9.0461,  
0.3569


 106.2344,  
116.5423, 49.1110

 4.0103, 4.7713,  
0.0000

 134.9684,  
147.5935, 67.6040

 1.7080, 2.1137,  
0.0000

 168.4661,  
183.7214, 90.2389

 0.4612, 0.6723,  
0.0000

 207.0927,

 0.0000, 0.0000,

225.3105, 117.4343

0.0000

251.2137,  
272.7452, 149.6086

■ 31.6275, 35.4181,  
8.1870

■ 31.6275, 35.4181,  
8.1870

■ 30.9523, 34.5652,  
6.4286

■ 32.4581, 36.3456,  
10.7262

■ 30.4118, 33.7746,  
5.3535

■ 33.4569, 37.3490,  
14.1243

■ 30.0368, 33.1579,  
4.8170

■ 34.6380, 38.4351,  
18.4523

■ 36.0135, 39.6089,  
23.7731

■ 37.5944, 40.8748,  
30.1444

■ 39.3906, 42.2369,  
37.6191

■ 41.4117, 43.6990,  
46.2470

■ 43.6665, 45.2647,  
56.0743

■ 46.1634, 46.9374,  
67.1451

# Harmonies

## Analogous

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



40.4200, 35.4181, 9.4093



31.6275, 35.4181, 8.1870



24.6625, 35.4181, 11.9307

# Triad

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



31.6275, 35.4181, 8.1870



22.2085, 35.4181, 74.6525



51.2054, 35.4181, 59.7536

# Complementary

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



31.6275, 35.4181, 8.1870



11.1415, 7.6328, 42.4807

# 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.



44.6255, 35.4181, 89.4381



31.6275, 35.4181, 8.1870



27.7059, 35.4181, 100.2803

# Square

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



31.6275, 35.4181, 8.1870



19.8545, 35.4181, 44.8296



35.7858, 35.4181, 106.6048



52.7335, 35.4181, 32.9118



# Rectangle

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



31.6275, 35.4181, 8.1870



21.6478, 35.4181, 18.3070



35.7858, 35.4181, 106.6048



49.4629, 35.4181, 70.0117

# Sweetspot

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



31.6283, 35.4198, 8.1877



67.1424, 73.0591, 53.2162



20.2833, 12.0330, 6.5537



14.3830, 15.7010, 10.8492



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.6283, 35.4198, 8.1877



54.8541, 61.0828, 10.2748



25.5705, 36.4546, 8.7067



9.1097, 9.7319, 9.0508



21.7918, 24.0822, 3.4998



0.7097, 0.8058, 0.1181



# Inverse Universe

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



11.1415, 7.6328, 42.4807



16.1994, 8.7680, 75.3339



13.9604, 7.9736, 42.3979



8.1201, 8.3864, 10.6971



5.9671, 2.7346, 30.3503



0.2136, 0.1377, 0.9636



# Previews

## White Background



This preview shows how the XYZ color 31.6275, 35.4181, 8.1870 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

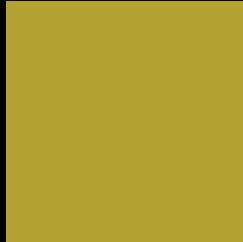
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.6275, 35.4181, 8.1870 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 31.6275, 35.4181, 8.1870**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6275, 35.4181, 8.1870.



This preview shows how white text looks on a background with the XYZ color 31.6275, 35.4181,



# 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

31.6275, 35.4181, 8.1870

### Protanopia

32.1430, 35.4233, 8.1609

### Deuteranopia

36.1445, 35.4663, 8.4307



## Tritanopia

37.9272, 35.2167, 39.4488

# Trichromacy



## Original Color

31.6275, 35.4181, 8.1870

## Protanomaly

31.9110, 35.3037, 8.1500

## Deuteranomaly

34.2693, 35.2404, 8.3641

## Tritanomaly

34.7626, 34.9151, 23.3195

# Monochromacy



## Original Color

31.6275, 35.4181, 8.1870

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

30.1096, 33.0563, 21.3165

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6275, 35.4181, 8.1870 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(177, 162, 50)` looks like.

```
.text, #text, p{  
    color:rgb(177, 162, 50)  
}
```

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(177, 162, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 162, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6275, 35.4181, 8.1870 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(177, 162, 50) }
```



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

```
.border{ border-color:rgb(177, 162, 50) }
```

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

Here you see how a box with a 4 pixel rgb(177, 162, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 162, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 162, 50);  
box-shadow:4px 4px 4px 4px rgb(177, 162,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6275, 35.4181, 8.1870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 162, 50) }
```

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

```
.background{ background-color: rgb(177,  
162, 50) }
```

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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