

# Converting Colors

XYZ(31.0534, 31.9484, 5.6279)

Have a look what the booklet for  
XYZ(31.0534, 31.9484, 5.6279)  
contains.

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# Color

**XYZ(30.9646, 31.8930,  
5.6226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9951C
RGB	185, 149, 28
RGB Percent	73%, 58%, 11%
CMY	0.2745, 0.4157, 0.8902
CMYK	0.00, 0.19, 0.85, 0.27
HSL	46°, 74%, 42%
HSV	46°, 85%, 73%
XYZ	30.9646, 31.8930, 5.6226
YIQ	145.9700, 60.2970, -29.9990

# Conversions

## Conversions Part 2

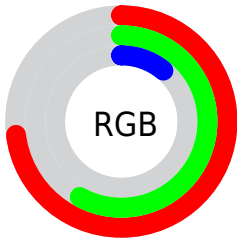
<b>Format</b>	<b>Color</b>
<b>RYB</b>	75, 185, 28
Decimal	12162332
CIELab	63.25, 2.43, 62.17
CIELCh	63, 62.216, 87.762
Yxy	31.8930, 0.4522, 0.4657
Android (android.graphics.Color)	4290352412 (0xFFB9951C)
YUV	145.9700, -58.1592, 34.2293
Hunter-Lab	56.4739, -0.9579, 33.6287

# Details

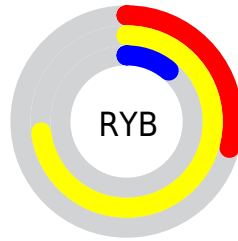
The XYZ color **30.9646, 31.8930, 5.6226** is a dark color, and the websafe version is hex **CC9933**. A complement of this color would be **11.0694, 7.4166, 46.7466**, and the grayscale version is **27.5239, 28.9573, 31.5345**.

A 20% lighter version of the original color is **60.6918, 62.7962, 17.7262**, and **13.2142, 13.4357, 1.8969** is the 20% darker color. If you saturate the color by 10%, you get **30.1488, 30.5136, 4.5737**, and if you desaturate by 10%, it is **31.9422, 33.3787, 7.3966**.

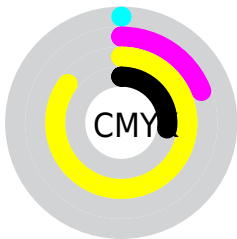
# Distribution



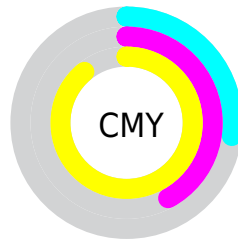
- Red (73%)
- Green (58%)
- Blue (11%)



- Red (29%)
- Yellow (73%)
- Blue (11%)



- Cyan (0%)
- Magenta (19%)
- Yellow (85%)
- Black (27%)




- Cyan (27%)
- Magenta (42%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.9646, 31.8930, 5.6226 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 30.9646, 31.8930, 5.6226 by changing the saturation by 10% instead.





 30.9646, 31.8930,  
5.6226


 30.9646, 31.8930,  
5.6226

298.2050,  
310.6315, 164.8414

 20.7236, 21.2798,  
2.5519


 60.5606, 62.6433,  
17.6063

 13.0334, 13.3287,  
0.8675


 80.6462, 83.5492,  
27.3565

 7.5287, 7.6553,  
0.0000


 104.7441,  
108.6548, 40.1702

 3.8441, 3.8752,  
0.0000

 133.2196,  
138.3444, 56.4661

 1.6143, 1.6040,  
0.0000

 166.4381,  
173.0025, 76.6626

 0.4017, 0.3603,  
0.0000

 204.7650,

 0.0000, 0.0000,

213.0135, 101.1783

0.0000

248.5655,  
258.7617, 130.4317

■ 30.9646, 31.8930,  
5.6226

■ 30.9646, 31.8930,  
5.6226

■ 30.1488, 30.5136,  
4.5737

■ 31.9422, 33.3787,  
7.3966

■ 29.7675, 29.8344,  
4.1897

■ 33.1014, 34.9754,  
10.0083

■ 34.4611, 36.6921,  
13.5524

■ 36.0369, 38.5356,  
18.1107

■ 37.8430, 40.5118,  
23.7557

■ 39.8920, 42.6263,  
30.5535

■ 42.1957, 44.8842,  
38.5647

■ 44.7650, 47.2901,  
47.8458

■ 47.6102, 49.8485,  
58.4496

# Harmonies

## Analogous

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



40.0343, 31.8930, 8.0729



30.9646, 31.8930, 5.6226



23.2345, 31.8930, 7.3927

# Triad

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



30.9646, 31.8930, 5.6226



17.8926, 31.8930, 61.8380



46.5913, 31.8930, 66.6713

# Complementary

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



30.9646, 31.8930, 5.6226



11.0694, 7.4166, 46.7466

# 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.



38.7012, 31.8930, 95.8810



30.9646, 31.8930, 5.6226



22.3090, 31.8930, 92.2821

# Square

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



30.9646, 31.8930, 5.6226



16.5927, 31.8930, 32.9068



29.6713, 31.8930, 106.9572



50.0575, 31.8930, 36.6111



# Rectangle

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



30.9646, 31.8930, 5.6226



19.6303, 31.8930, 11.6043



29.6713, 31.8930, 106.9572



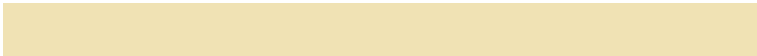
44.3032, 31.8930, 77.3653

# Sweetspot

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



30.9653, 31.8946, 5.6232



71.2344, 76.1303, 54.0001



21.3665, 11.5225, 6.0441



15.0719, 16.1225, 10.6835



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



30.9653, 31.8946, 5.6232



53.1287, 53.0635, 7.4421



28.9095, 40.6331, 7.4183



9.5709, 10.1447, 9.5606



20.3262, 20.4288, 2.8718



0.7599, 0.8069, 0.1157



# Inverse Universe

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



11.0694, 7.4166, 46.7466



17.0478, 9.0017, 83.0436



11.6888, 5.6309, 46.3693



8.6837, 9.0447, 11.3676



6.5834, 3.6265, 31.6061

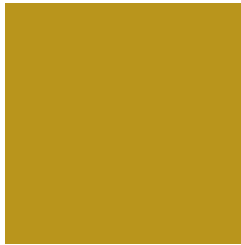


0.2800, 0.2237, 1.1302



# Previews

## White Background



This preview shows how the XYZ color 30.9646, 31.8930, 5.6226 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 30.9646, 31.8930, 5.6226 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 30.9646, 31.8930, 5.6226**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.9646, 31.8930, 5.6226.



This preview shows how white text looks on a background with the XYZ color 30.9646, 31.8930,



# 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

30.9646, 31.8930, 5.6226

### Protanopia

29.0110, 32.0841, 5.8262

### Deuteranopia

32.3521, 31.6820, 5.6384



## Tritanopia

36.6498, 31.9726, 32.6735

# Trichromacy



## Original Color

30.9646, 31.8930, 5.6226

## Protanomaly

29.5815, 31.8923, 5.7591

## Deuteranomaly

31.7359, 31.5936, 5.5879

## Tritanomaly

33.6075, 31.6120, 17.6950

# Monochromacy



## Original Color

30.9646, 31.8930, 5.6226

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

27.3791, 29.3203, 17.0483

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.9646, 31.8930, 5.6226 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(185, 149, 28)` looks like.

```
.text, #text, p{  
    color:rgb(185, 149, 28)  
}
```

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(185, 149, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 149, 28) }
```

## Border

The CSS property to change the border of an element to XYZ 30.9646, 31.8930, 5.6226 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(185, 149, 28) }
```



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

```
.border{ border-color:rgb(185, 149, 28) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 149, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 149, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 149, 28);  
box-shadow:4px 4px 4px 4px rgb(185, 149,  
28) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.9646, 31.8930, 5.6226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 149, 28) }
```

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

```
.background{ background-color: rgb(185,  
149, 28) }
```

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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