

# Converting Colors

XYZ(18.9177, 32.0275, 4.8990)

Have a look what the booklet for  
XYZ(18.9177, 32.0275, 4.8990)  
contains.

<b>XYZ(18.8741, 31.9134, 5.1651)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(18.8741, 31.9134,  
5.1651)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	57AD00
RGB	87, 173, 0
RGB Percent	34%, 68%, 0%
CMY	0.6588, 0.3216, 0.9999
CMYK	0.50, 0.00, 1.00, 0.32
HSL	90°, 100%, 34%
HSV	90°, 100%, 68%
XYZ	18.8741, 31.9134, 5.1651
YIQ	127.5640, 4.2770, -72.0350

# Conversions

## Conversions Part 2

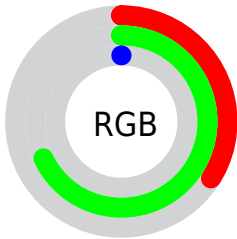
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 173, 86
Decimal	5745920
CIELab	63.27, -49.98, 64.27
CIELCh	63, 81.420, 127.869
Yxy	31.9134, 0.3373, 0.5704
Android (android.graphics.Color)	4283936000 (0xFF57AD00)
YUV	127.5640, -62.8891, -35.5746
Hunter-Lab	56.4919, -39.2236, 34.1234

# Details

The XYZ color **18.8741, 31.9134, 5.1651** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **11.3828, 4.9969, 39.9015**, and the grayscale version is **20.5779, 21.6495, 23.5763**.

A 20% lighter version of the original color is **40.9664, 62.5664, 16.5740**, and **6.9302, 13.5431, 2.2488** is the 20% darker color. If you saturate the color by 10%, you get **18.8740, 31.9144, 5.1653**, and if you desaturate by 10%, it is **19.8299, 32.3952, 5.7511**.

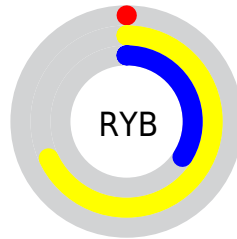
# Distribution



Red (34%)

Green (68%)

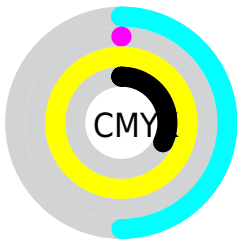
Blue (0%)



Red (0%)

Yellow (68%)

Blue (34%)

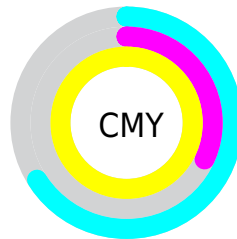


Cyan (50%)

Magenta (0%)

Yellow (100%)

Black (32%)



Cyan (66%)

Magenta (32%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8741, 31.9134, 5.1651 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 18.8741, 31.9134, 5.1651 by changing the saturation by 10% instead.



■ 18.8741, 31.9134,  
5.1651

■ 18.8741, 31.9134,  
5.1651

238.7043,  
310.7246, 160.4082

■ 11.6828, 21.2954,  
2.2840

■ 41.0398, 62.6753,  
16.6184

■ 6.5987, 13.3401,  
0.7222

■ 56.7449, 83.5880,  
26.0276

■ 3.2565, 7.6631,  
0.0000

■ 76.0186, 108.7009,  
38.4501

■ 1.2908, 3.8802,  
0.0000

■ 99.2263, 138.3986,  
54.3042

■ 0.1763, 1.6068,  
0.0000

■ 126.7334,  
173.0655, 74.0085


■ 0.0000, 0.3621,  
0.0000


■ 158.9052,


■ 0.0000, 0.0000,


213.0858, 97.9816


0.0000


 196.1070,  
258.8440, 126.6420


 18.8741, 31.9134,  
5.1651


 18.8741, 31.9134,  
5.1651


 18.8740, 31.9144,  
5.1653

 19.8299, 32.3952,  
5.7511

 20.9744, 32.9628,  
6.8174

 22.3470, 33.6334,  
8.5530

 23.9671, 34.4151,  
11.0451

 25.8517, 35.3150,  
14.3677

■ 28.0156, 36.3394,  
18.5858

■ 30.4726, 37.4941,  
23.7581

■ 33.2354, 38.7845,  
29.9382

■ 36.3158, 40.2155,  
37.1760

# Harmonies

## Analogous

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



27.4600, 31.9134, 2.3929



18.8741, 31.9134, 5.1651



14.3539, 31.9134, 16.2106

# Triad

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



18.8741, 31.9134, 5.1651



22.8751, 31.9134, 129.8576



57.2816, 31.9134, 26.9211

# Complementary

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



18.8741, 31.9134, 5.1651



11.3828, 4.9969, 39.9015

# 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.



55.1790, 31.9134, 63.7873



18.8741, 31.9134, 5.1651



33.3992, 31.9134, 139.7073

# Square

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



18.8741, 31.9134, 5.1651



16.2331, 31.9134, 88.5087



45.6854, 31.9134, 110.4412



50.8724, 31.9134, 8.8684



# Rectangle

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



18.8741, 31.9134, 5.1651



13.4141, 31.9134, 32.4894



45.6854, 31.9134, 110.4412



57.5711, 31.9134, 37.1095

# Sweetspot

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



18.8748, 31.9148, 5.1658



54.3244, 67.0311, 42.0092



20.3758, 15.1675, 1.8541



11.4052, 14.3793, 8.2725



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



18.8748, 31.9148, 5.1658



33.5524, 57.0265, 9.2388



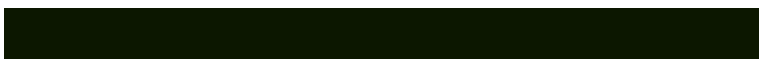
14.9806, 29.9072, 4.9836



8.2738, 9.1298, 8.5395



13.9312, 23.4789, 3.7976



0.4507, 0.6857, 0.1086



# Inverse Universe

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



11.3828, 4.9969, 39.9015



20.1355, 8.8197, 71.4469



24.1469, 11.5771, 40.4989



7.9439, 7.9454, 10.0676



8.4272, 3.7043, 29.3153



0.2977, 0.1356, 0.8185



# Previews

## White Background



This preview shows how the XYZ color 18.8741, 31.9134, 5.1651 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 18.8741, 31.9134, 5.1651 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

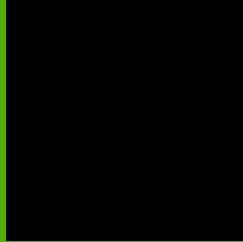
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 18.8741, 31.9134, 5.1651**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8741, 31.9134, 5.1651.



This preview shows how white text looks on a background with the XYZ color 18.8741, 31.9134,



# 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

18.8741, 31.9134, 5.1651

### Protanopia

28.4045, 31.5531, 4.5933

### Deuteranopia

32.0149, 31.2743, 5.9393



## Tritanopia

26.8153, 31.8607, 44.7808

# Trichromacy



## Original Color

18.8741, 31.9134, 5.1651

## Protanomaly

23.5553, 30.8043, 4.7043

## Deuteranomaly

25.1926, 30.3706, 5.2934

## Tritanomaly

21.8039, 30.8827, 19.8507

# Monochromacy



## Original Color

18.8741, 31.9134, 5.1651

## Achromatopsia

20.5175, 21.5861, 23.5072

## Achromatomaly

18.2685, 24.0513, 11.4641

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8741, 31.9134, 5.1651 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(87, 173, 0)` looks like.

```
.text, #text, p{  
    color:rgb(87, 173, 0)  
}
```

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(87, 173, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 173, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8741, 31.9134, 5.1651 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(87, 173, 0) }
```



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

```
.border{ border-color:rgb(87, 173, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 173, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 173, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 173, 0);  
box-shadow:4px 4px 4px 4px rgb(87, 173, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.8741, 31.9134, 5.1651 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 173, 0) }
```

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

```
.background{ background-color: rgb(87, 173,  
0) }
```

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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