

# Converting Colors

XYZ(31.0131, 46.6497, 7.1006)

Have a look what the booklet for  
XYZ(31.0131, 46.6497, 7.1006)  
contains.

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# Color

**XYZ(31.1355, 46.7118,  
7.3753)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8AC800
RGB	138, 200, 0
RGB Percent	54%, 78%, 0%
CMY	0.4588, 0.2157, 0.9999
CMYK	0.31, 0.00, 1.00, 0.22
HSL	79°, 100%, 39%
HSV	79°, 100%, 78%
XYZ	31.1355, 46.7118, 7.3753
YIQ	158.6620, 27.2480, -75.3440

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 200, 62
Decimal	9095168
CIELab	74.01, -43.28, 73.65
CIELCh	74, 85.428, 120.438
Yxy	46.7118, 0.3653, 0.5481
Android (android.graphics.Color)	4287285248 (0xFF8AC800)
YUV	158.6620, -78.2204, -18.1206
Hunter-Lab	68.3460, -38.2887, 41.4442

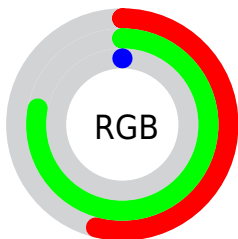
# Details

The XYZ color **31.1355, 46.7118, 7.3753** is a dark color, and the websafe version is hex **99CC00**.

The color can be described as dark washed chartreuse. A complement of this color would be **12.4145, 5.1959, 54.9949**, and the grayscale version is **33.1397, 34.8655, 37.9686**.

A 20% lighter version of the original color is **60.0479, 83.8650, 21.0053**, and **13.5871, 22.2632, 3.5811** is the 20% darker color. If you saturate the color by 10%, you get **31.1352, 46.7132, 7.3755**, and if you desaturate by 10%, it is **32.3185, 47.3086, 8.0911**.

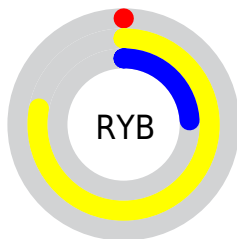
# Distribution



Red (54%)

Green (78%)

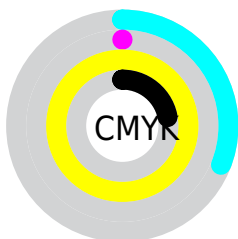
Blue (0%)



Red (0%)

Yellow (78%)

Blue (24%)

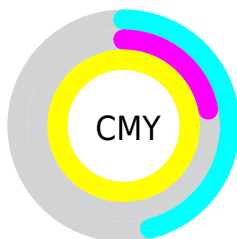


Cyan (31%)

Magenta (0%)

Yellow (100%)

Black (22%)



Cyan (46%)

Magenta (22%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1355, 46.7118, 7.3753 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 31.1355, 46.7118, 7.3753 by changing the saturation by 10% instead.





 31.1355, 46.7118,  
7.3753


 31.1355, 46.7118,  
7.3753


298.9778,  
373.6630, 180.4943

 20.8544, 32.8079,  
3.6159


 60.8277, 85.2833,  
21.2499


 13.1295, 21.9793,  
1.4171


 80.9696, 110.7196,  
32.2022

 7.5954, 13.8417,  
0.1550

 105.1290,  
140.7689, 46.3893

 3.8868, 8.0106,  
0.0000

 133.6714,  
175.8155, 64.2296

 1.6383, 4.1018,  
0.0000

 166.9621,  
216.2438, 86.1417

 0.4172, 1.7306,  
0.0000

 205.3665,

 0.0000, 0.4434,

262.4382, 112.5442

0.0000

249.2500,  
314.7831, 143.8555

■ 0.0000, 0.0000,  
0.0000

■ 31.1355, 46.7118,  
7.3753

■ 31.1355, 46.7118,  
7.3753

■ 31.1352, 46.7132,  
7.3755

■ 32.3185, 47.3086,  
8.0911

■ 33.6905, 47.9862,  
9.4963

■ 35.2989, 48.7653,  
11.8307

■ 37.1685, 49.6561,  
15.2200

■ 39.3202, 50.6668,  
19.7706

■ 41.7728, 51.8052,  
25.5756

■ 44.5428, 53.0780,  
32.7189

■ 47.6458, 54.4914,  
41.2771

■ 51.0959, 56.0513,  
51.3210

# Harmonies

## Analogous

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



44.1743, 46.7118, 4.6197



31.1355, 46.7118, 7.3753



23.4610, 46.7118, 19.6562

# Triad

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



31.1355, 46.7118, 7.3753



31.4431, 46.7118, 164.4942



80.6589, 46.7118, 50.2216

# Complementary

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



31.1355, 46.7118, 7.3753



12.4145, 5.1959, 54.9949

# 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.



75.1081, 46.7118, 104.5770



31.1355, 46.7118, 7.3753



44.6228, 46.7118, 189.5794

# Square

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



31.1355, 46.7118, 7.3753



23.6079, 46.7118, 106.3862



60.9759, 46.7118, 163.0936



74.7901, 46.7118, 19.0719



# Rectangle

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



31.1355, 46.7118, 7.3753



21.3017, 46.7118, 38.1451



60.9759, 46.7118, 163.0936



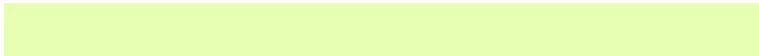
80.0550, 46.7118, 66.1292

# Sweetspot

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



31.1366, 46.7139, 7.3763



76.8919, 91.7902, 56.0478



25.4375, 15.5136, 1.6544



16.0066, 19.4399, 10.8117



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.



31.1366, 46.7139, 7.3763



53.6500, 80.7426, 12.7572



21.5313, 41.7622, 6.9268



11.1916, 12.2457, 11.3366



19.8913, 29.7496, 4.6939



1.0137, 1.4457, 0.2256



# Inverse Universe

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



12.4145, 5.1959, 54.9949



21.2798, 8.8850, 95.2012



24.9250, 11.6453, 55.5803



10.3609, 10.4443, 13.3874



7.9740, 3.3450, 34.9697



0.4528, 0.1972, 1.6593



# Previews

## White Background



This preview shows how the XYZ color 31.1355, 46.7118, 7.3753 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

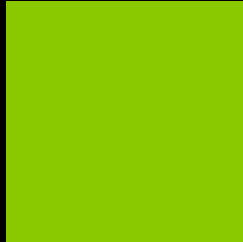
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.1355, 46.7118, 7.3753 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 31.1355, 46.7118, 7.3753**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1355, 46.7118, 7.3753.



This preview shows how white text looks on a background with the XYZ color 31.1355, 46.7118,



# 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

31.1355, 46.7118, 7.3753

### Protanopia

41.6298, 46.2933, 6.7414

### Deuteranopia

47.0973, 46.1390, 8.2571



## **Tritanopia**

42.2021, 46.6040, 62.0295

# Trichromacy



## Original Color

31.1355, 46.7118, 7.3753

## Protanomaly

37.0200, 46.0985, 6.9467

## Deuteranomaly

39.3985, 45.1239, 7.4974

## Tritanomaly

35.2896, 45.3994, 27.3251

# Monochromacy



## Original Color

31.1355, 46.7118, 7.3753

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

30.2475, 37.7910, 18.0121

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1355, 46.7118, 7.3753 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(138, 200, 0)` looks like.

```
.text, #text, p{  
    color:rgb(138, 200, 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(138, 200, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 200, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1355, 46.7118, 7.3753 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(138, 200, 0) }
```



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

```
.border{ border-color:rgb(138, 200, 0) }
```

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

Here you see how a box with a 4 pixel rgb(138, 200, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 200, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 200, 0);  
box-shadow:4px 4px 4px 4px rgb(138, 200,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1355, 46.7118, 7.3753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 200, 0) }
```

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

```
.background{ background-color: rgb(138,  
200, 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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