

# Converting Colors

XYZ(31.2680, 56.8832, 9.3316)

Have a look what the booklet for  
XYZ(31.2680, 56.8832, 9.3316)  
contains.

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# Color

**XYZ(31.3068, 56.9166,  
9.3360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56E300
RGB	86, 227, 0
RGB Percent	34%, 89%, 0%
CMY	0.6627, 0.1098, 0.9999
CMYK	0.62, 0.00, 1.00, 0.11
HSL	97°, 100%, 45%
HSV	97°, 100%, 89%
XYZ	31.3068, 56.9166, 9.3360
YIQ	158.9630, -11.1690, -100.4890

# Conversions

## Conversions Part 2

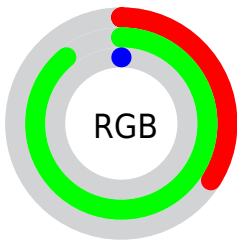
Format	Color
<a href="#">RYB</a>	0, 227, 141
Decimal	5694208
CIELab	80.13, -69.06, 77.55
CIELCh	80, 103.845, 131.684
Yxy	56.9166, 0.3209, 0.5834
Android (android.graphics.Color)	4283884288 (0xFF56E300)
YUV	158.9630, -78.3688, -63.9886
Hunter-Lab	75.4431, -57.9528, 45.4731

# Details

The XYZ color **31.3068, 56.9166, 9.3360** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **24.8568, 11.2129, 73.5304**, and the grayscale version is **33.2915, 35.0253, 38.1425**.

A 20% lighter version of the original color is **50.4292, 78.8835, 21.5850**, and **14.3747, 28.7495, 4.7916** is the 20% darker color. If you saturate the color by 10%, you get **31.3061, 56.9180, 9.3363**, and if you desaturate by 10%, it is **32.8890, 57.7165, 10.2036**.

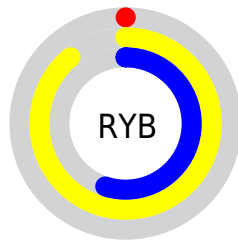
# Distribution



Red (34%)

Green (89%)

Blue (0%)



Red (0%)

Yellow (89%)

Blue (55%)

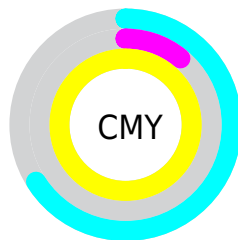


Cyan (62%)

Magenta (0%)

Yellow (100%)

Black (11%)



Cyan (66%)

Magenta (11%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3068, 56.9166, 9.3360 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 31.3068, 56.9166, 9.3360 by changing the saturation by 10% instead.





 31.3068, 56.9166,  
9.3360


 31.3068, 56.9166,  
9.3360


299.7510,  
413.1367, 196.1745


 20.9856, 40.9383,  
4.8612


 61.0953, 100.3435,  
25.1268

 13.2258, 28.2709,  
2.1087


 81.2933, 128.5608,  
37.2800

 7.6623, 18.5299,  
0.6210


 105.5143,  
161.6267, 52.8296

 3.9296, 11.3311,  
0.0000

 134.1236,  
199.9254, 72.1943

 1.6624, 6.2900,  
0.0000

 167.4865,  
243.8413, 95.7926

 0.4326, 3.0222,  
0.0000

 205.9685,

 0.0000, 1.1433,

293.7590, 124.0430

0.0000

249.9349,  
350.0626, 157.3641

■ 0.0000, 0.0147,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.3068, 56.9166,  
9.3360

■ 31.3068, 56.9166,  
9.3360

■ 31.3061, 56.9180,  
9.3363

■ 32.8890, 57.7165,  
10.2036

■ 34.9183, 58.7245,  
12.0211

■ 37.4660, 59.9725,  
15.0913

■ 40.5771, 61.4800,  
19.5880

■ 44.2905, 63.2639,  
25.6576

■ 48.6415, 65.3394,  
33.4280

■ 53.6618, 67.7205,  
43.0142

■ 59.3812, 70.4202,  
54.5212

■ 65.8274, 73.4507,  
68.0458

# Harmonies

## Analogous

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



46.2716, 56.9166, 3.5767



31.3068, 56.9166, 9.3360



23.9434, 56.9166, 32.1014

# Triad

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



31.3068, 56.9166, 9.3360



42.2962, 56.9166, 251.3680



104.5020, 56.9166, 41.2492

# Complementary

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



31.3068, 56.9166, 9.3360



24.8568, 11.2129, 73.5304

# 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.



102.6245, 56.9166, 106.2581



31.3068, 56.9166, 9.3360



62.7595, 56.9166, 260.3427

# Square

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



31.3068, 56.9166, 9.3360



29.0528, 56.9166, 176.1954



85.9041, 56.9166, 196.0175



90.5125, 56.9166, 12.3018



# Rectangle

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



31.3068, 56.9166, 9.3360



22.7764, 56.9166, 65.4594



85.9041, 56.9166, 196.0175



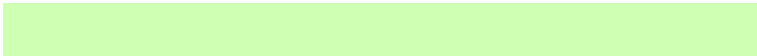
105.7872, 56.9166, 58.6117

# Sweetspot

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



31.3081, 56.9190, 9.3373



69.7112, 88.0884, 55.7118



41.0579, 35.0873, 4.6094



14.3059, 18.5631, 10.7321



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.



31.3081, 56.9190, 9.3373



40.6455, 74.0385, 12.1486



27.6629, 55.0176, 10.1690



14.7026, 16.3538, 15.2861



18.3767, 33.2550, 5.4503



1.4586, 2.5093, 0.4075



# Inverse Universe

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



24.8568, 11.2129, 73.5304



32.2327, 14.5315, 95.7137



42.1670, 20.5270, 56.7050



14.4386, 14.3283, 18.1490



14.6281, 6.6070, 42.8875

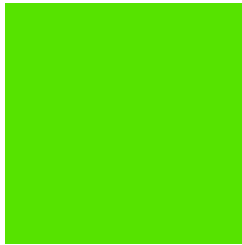


1.1834, 0.5410, 3.1740



# Previews

## White Background



This preview shows how the XYZ color 31.3068, 56.9166, 9.3360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

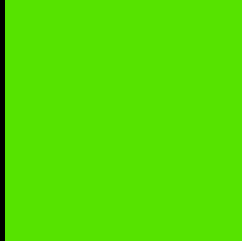
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.3068, 56.9166, 9.3360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

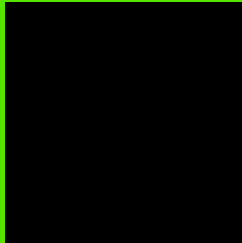
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.3068, 56.9166, 9.3360**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.3068, 56.9166, 9.3360.



This preview shows how white text looks on a background with the XYZ color 31.3068, 56.9166,



# 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

31.3068, 56.9166, 9.3360

### Protanopia

50.3183, 55.9178, 8.1412

### Deuteranopia

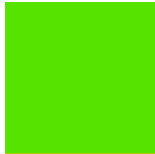
57.0152, 55.7105, 10.5445



## **Tritanopia**

45.6100, 56.4751, 81.8957

# Trichromacy



## Original Color

31.3068, 56.9166, 9.3360



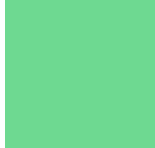
## Protanomaly

40.0340, 54.4852, 8.4067



## Deuteranomaly

42.3541, 53.1588, 9.3247



## Tritanomaly

36.3541, 54.9850, 35.4852

# Monochromacy



## Original Color

31.3068, 56.9166, 9.3360



## Achromatopsia

32.9542, 34.6704, 37.7561



## Achromatomaly

29.0052, 40.1261, 18.5283

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3068, 56.9166, 9.3360 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(86, 227, 0)` looks like.

```
.text, #text, p{  
    color:rgb(86, 227, 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(86, 227, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 227, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3068, 56.9166, 9.3360 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(86, 227, 0) }
```



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

```
.border{ border-color:rgb(86, 227, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 227, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 227, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 227, 0);  
box-shadow:4px 4px 4px 4px rgb(86, 227, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.3068, 56.9166, 9.3360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 227, 0) }
```

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

```
.background{ background-color: rgb(86, 227,  
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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