

# Converting Colors

XYZ(19.5040, 31.5004, 12.9354)

Have a look what the booklet for  
XYZ(19.5040, 31.5004, 12.9354)  
contains.

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# Color

**XYZ(19.5656, 31.5289,  
13.0371)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52AB52
RGB	82, 171, 82
RGB Percent	32%, 67%, 32%
CMY	0.6784, 0.3294, 0.6784
CMYK	0.52, 0.00, 0.52, 0.33
HSL	120°, 35%, 50%
HSV	120°, 52%, 67%
XYZ	19.5656, 31.5289, 13.0371
YIQ	134.2430, -24.4750, -46.5470

# Conversions

## Conversions Part 2

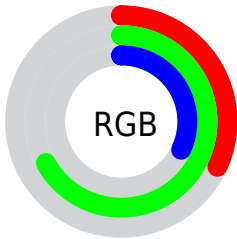
<b>Format</b>	<b>Color</b>
<b>RYB</b>	82, 171, 171
Decimal	5417810
CIELab	62.95, -45.08, 37.55
CIElCh	63, 58.671, 140.210
Yxy	31.5289, 0.3051, 0.4916
Android (android.graphics.Color)	4283607890 (0xFF52AB52)
YUV	134.2430, -25.7558, -45.8171
Hunter-Lab	56.1506, -36.0655, 25.5394

# Details

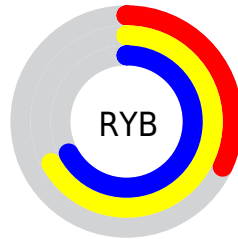
The XYZ color **19.5656, 31.5289, 13.0371** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **27.1635, 17.6333, 40.5008**, and the grayscale version is **22.8484, 24.0383, 26.1777**.

A 20% lighter version of the original color is **42.1840, 62.0349, 31.9409**, and **6.9666, 13.1768, 3.6150** is the 20% darker color. If you saturate the color by 10%, you get **17.6882, 30.6281, 9.9658**, and if you desaturate by 10%, it is **21.9772, 32.6883, 16.9812**.

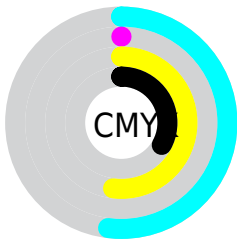
# Distribution



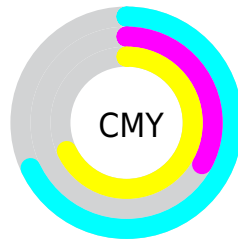
- Red (32%)
- Green (67%)
- Blue (32%)



- Red (32%)
- Yellow (67%)
- Blue (67%)



- Cyan (52%)
- Magenta (0%)
- Yellow (52%)
- Black (33%)




- Cyan (68%)
- Magenta (33%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.5656, 31.5289, 13.0371 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 19.5656, 31.5289, 13.0371 by changing the saturation by 10% instead.





 19.5656, 31.5289,  
13.0371


 19.5656, 31.5289,  
13.0371


242.4323,  
308.9676, 222.3715


 12.1861, 21.0019,  
7.3231


 42.1972, 62.0718,  
32.0626


 6.9436, 13.1254,  
3.5835


 58.1800, 82.8566,  
46.2111


 3.4729, 7.5150,  
1.3997


 77.7613, 107.8293,  
64.0082

 1.4085, 3.7862,  
0.1415

 101.3064,  
137.3745, 85.8725

 0.2623, 1.5547,  
0.0000

 129.1807,  
171.8766, 112.2224

 0.0000, 0.3268,  
0.0000

161.7495,

 0.0000, 0.0000,

211.7198, 143.4765

0.0000

199.3783,  
257.2887, 180.0533

■ 19.5656, 31.5289,  
13.0371

■ 19.5656, 31.5289,  
13.0371

■ 17.6882, 30.6281,  
9.9658

■ 21.9772, 32.6883,  
16.9812

■ 16.3025, 29.9624,  
7.6991

■ 24.9570, 34.1196,  
21.8552

■ 15.3630, 29.5112,  
6.1624

■ 28.5387, 35.8401,  
27.7137

■ 14.8151, 29.2479,  
5.2660

■ 32.7528, 37.8644,  
34.6067

■ 14.5636, 29.1271,  
4.8546

■ 37.6279, 40.2061,  
42.5806

■ 43.1905, 42.8781,  
51.6791

■ 49.4659, 45.8925,  
61.9436

■ 56.4781, 49.2608,  
73.4132

■ 64.2498, 52.9940,  
86.1252

# Harmonies

## Analogous

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



24.9253, 31.5289, 7.2505



19.5656, 31.5289, 13.0371



17.1415, 31.5289, 27.3215

# Triad

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



19.5656, 31.5289, 13.0371



27.4083, 31.5289, 99.2820



46.9926, 31.5289, 21.1647

# Complementary

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



19.5656, 31.5289, 13.0371



27.1635, 17.6333, 40.5008

# 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.



47.9829, 31.5289, 42.4440



19.5656, 31.5289, 13.0371



35.6470, 31.5289, 95.1065

# Square

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



19.5656, 31.5289, 13.0371



21.1022, 31.5289, 80.9817



43.5244, 31.5289, 71.2940



41.0212, 31.5289, 10.2703



# Rectangle

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



19.5656, 31.5289, 13.0371



17.1551, 31.5289, 42.8145



43.5244, 31.5289, 71.2940



47.9559, 31.5289, 27.0470

# Sweetspot

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



19.5664, 31.5302, 13.0378



55.3180, 66.2067, 56.5159



32.8819, 38.3946, 13.6606



12.0023, 14.6040, 12.0572



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.



19.5664, 31.5302, 13.0378



31.3770, 54.7066, 17.3561



21.8417, 32.4403, 25.0194



7.9045, 8.9394, 8.5223



10.9783, 21.9566, 3.6595



0.3054, 0.6108, 0.1018



# Inverse Universe

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



27.1635, 17.6333, 40.5008



46.4365, 27.1595, 71.7948



23.6111, 16.2124, 21.7938



8.3371, 8.1481, 10.0860



18.2018, 8.7432, 29.7716



0.5064, 0.2432, 0.8282



# Previews

## White Background



This preview shows how the XYZ color 19.5656, 31.5289, 13.0371 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 19.5656, 31.5289, 13.0371 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 19.5656, 31.5289, 13.0371**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.5656, 31.5289, 13.0371.



This preview shows how white text looks on a background with the XYZ color 19.5656, 31.5289,



# 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

19.5656, 31.5289, 13.0371

### Protanopia

28.4346, 31.1800, 11.1763

### Deuteranopia

31.5436, 30.8581, 13.7449



## Tritanopia

25.8643, 31.3705, 44.7363

# Trichromacy



## Original Color

19.5656, 31.5289, 13.0371



## Protanomaly

23.9266, 30.5806, 11.8493



## Deuteranomaly

25.2679, 29.9861, 13.2602



## Tritanomaly

22.9822, 31.2663, 30.0230

# Monochromacy



## Original Color

19.5656, 31.5289, 13.0371



## Achromatopsia

22.6597, 23.8398, 25.9615



## Achromatomaly

20.5985, 25.7501, 20.1043

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.5656, 31.5289, 13.0371 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(82, 171, 82)` looks like.

```
.text, #text, p{  
    color:rgb(82, 171, 82)  
}
```

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(82, 171, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 171, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 19.5656, 31.5289, 13.0371 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(82, 171, 82) }
```



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

```
.border{ border-color:rgb(82, 171, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(82, 171, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 171, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 171, 82);  
box-shadow:4px 4px 4px 4px rgb(82, 171,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.5656, 31.5289, 13.0371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 171, 82) }
```

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

```
.background{ background-color: rgb(82, 171,  
82) }
```

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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