

# Converting Colors

XYZ(31.9419, 50.3955, 19.7342)

Have a look what the booklet for  
XYZ(31.9419, 50.3955, 19.7342)  
contains.

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# Color

**XYZ(31.9808, 50.4388,  
19.8545)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70D263
RGB	112, 210, 99
RGB Percent	44%, 82%, 39%
CMY	0.5608, 0.1765, 0.6118
CMYK	0.47, 0.00, 0.53, 0.18
HSL	113°, 55%, 61%
HSV	113°, 53%, 82%
XYZ	31.9808, 50.4388, 19.8545
YIQ	168.0440, -22.7770, -55.2970

# Conversions

## Conversions Part 2

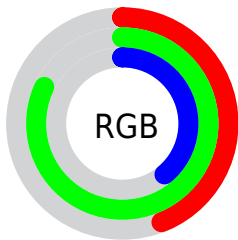
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 210, 197
Decimal	7393891
CIELab	76.34, -50.24, 45.79
CIElCh	76, 67.978, 137.654
Yxy	50.4388, 0.3127, 0.4932
Android (android.graphics.Color)	4285583971 (0xFF70D263)
YUV	168.0440, -34.0387, -49.1506
Hunter-Lab	71.0203, -43.9060, 33.1390

# Details

The XYZ color **31.9808, 50.4388, 19.8545** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **39.1234, 25.4489, 63.8256**, and the grayscale version is **37.4121, 39.3604, 42.8635**.

A 20% lighter version of the original color is **57.7897, 82.2220, 42.5304**, and **13.6506, 24.3780, 6.6753** is the 20% darker color. If you saturate the color by 10%, you get **28.9837, 48.9965, 15.1379**, and if you desaturate by 10%, it is **35.7273, 52.2402, 25.9708**.

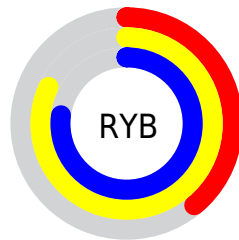
# Distribution



Red (44%)

Green (82%)

Blue (39%)



Red (39%)

Yellow (82%)

Blue (77%)

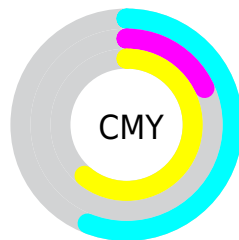


Cyan (47%)

Magenta (0%)

Yellow (53%)

Black (18%)



Cyan (56%)

Magenta (18%)

Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9808, 50.4388, 19.8545 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 31.9808, 50.4388, 19.8545 by changing the saturation by 10% instead.



■ 31.9808, 50.4388,  
19.8545

■ 31.9808, 50.4388,  
19.8545

302.7786,  
388.3794, 263.7045

■ 21.5023, 35.7622,  
12.1063

■ 62.1464, 90.8247,  
44.0289

■ 13.6062, 24.2506,  
6.6927

■ 82.5642, 117.3027,  
61.2921

■ 7.9272, 15.5196,  
3.1951

■ 107.0258,  
148.4834, 82.5641

■ 4.0998, 9.1849,  
1.1951

■ 135.8966,  
184.7510, 108.2634

■ 1.7587, 4.8620,  
0.0000

169.5419,  
226.4901, 138.8086

■ 0.4926, 2.1665,  
0.0000

208.3271,

■ 0.0000, 0.7016,

274.0849, 174.6181

0.0000

252.6176,  
327.9199, 216.1106

■ 0.0000, 0.0000,  
0.0000

■ 31.9808, 50.4388,  
19.8545

■ 31.9808, 50.4388,  
19.8545

■ 28.9837, 48.9965,  
15.1379

■ 35.7273, 52.2402,  
25.9708

■ 26.6814, 47.8832,  
11.7073

■ 40.2653, 54.4159,  
33.5820

■ 25.0181, 47.0743,  
9.4369

■ 45.6383, 56.9877,  
42.7788

■ 23.9271, 46.5387,  
8.1738

■ 51.8855, 59.9743,  
53.6439

■ 23.4385, 46.2968,  
7.7008

■ 59.0436, 63.3927,  
66.2541

■ 67.1473, 67.2594,  
80.6816

■ 76.2293, 71.5897,  
96.9942

■ 82.3376, 74.5753,  
104.6625

# Harmonies

## Analogous

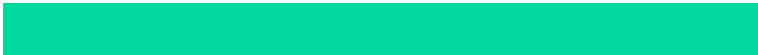
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



40.8702, 50.4388, 11.4592



31.9808, 50.4388, 19.8545



27.7255, 50.4388, 41.2092

# Triad

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



31.9808, 50.4388, 19.8545



42.8780, 50.4388, 156.2928



75.3640, 50.4388, 36.2277

# Complementary

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



31.9808, 50.4388, 19.8545



39.1234, 25.4489, 63.8256

# 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.



76.1629, 50.4388, 71.3758



31.9808, 50.4388, 19.8545



55.7827, 50.4388, 152.9307

# Square

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



31.9808, 50.4388, 19.8545



33.2248, 50.4388, 125.0490



68.4839, 50.4388, 117.2434



66.4636, 50.4388, 17.6070

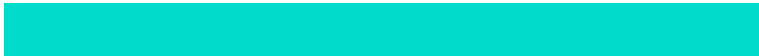


# Rectangle

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



31.9808, 50.4388, 19.8545



27.4838, 50.4388, 64.8324



68.4839, 50.4388, 117.2434



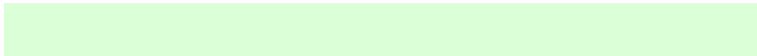
76.6393, 50.4388, 46.0719

# Sweetspot

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



31.9820, 50.4409, 19.8556



77.1297, 91.4418, 77.3372



48.3927, 53.7249, 19.6245



16.0732, 19.3640, 15.7949



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.



31.9820, 50.4409, 19.8556



44.6268, 75.8558, 22.9618



32.9054, 50.6328, 32.7353



11.7830, 13.2716, 12.5527



14.3406, 28.2618, 4.6993



0.8458, 1.6029, 0.2648



# Inverse Universe

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



39.1234, 25.4489, 63.8256



56.7390, 33.1531, 98.0165



38.2317, 25.5025, 40.5933



12.1689, 11.9359, 14.9061



19.4163, 9.1898, 37.9429



1.1251, 0.5342, 2.1234



# Previews

## White Background



This preview shows how the XYZ color 31.9808, 50.4388, 19.8545 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 31.9808, 50.4388, 19.8545 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

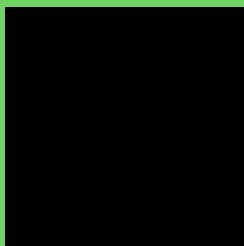
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.9808, 50.4388, 19.8545**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9808, 50.4388, 19.8545.



This preview shows how white text looks on a background with the XYZ color 31.9808, 50.4388,



# 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

31.9808, 50.4388, 19.8545

### Protanopia

45.4342, 49.5788, 17.3002

### Deuteranopia

50.5691, 49.3963, 20.7791



## Tritanopia

42.3234, 50.3941, 71.1147

# Trichromacy



## Original Color

31.9808, 50.4388, 19.8545



## Protanomaly

38.5939, 48.6271, 18.1783



## Deuteranomaly

41.1618, 48.2655, 20.2434



## Tritanomaly

37.3193, 49.7316, 46.6620

# Monochromacy



## Original Color

31.9808, 50.4388, 19.8545



## Achromatopsia

37.2190, 39.1572, 42.6422



## Achromatomaly

34.1042, 42.1460, 32.3241

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9808, 50.4388, 19.8545 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(112, 210, 99)` looks like.

```
.text, #text, p{  
    color:rgb(112, 210, 99)  
}
```

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(112, 210, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 210, 99) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9808, 50.4388, 19.8545 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(112, 210, 99) }
```



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

```
.border{ border-color:rgb(112, 210, 99) }
```

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

Here you see how a box with a 4 pixel rgb(112, 210, 99) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 210, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 210, 99);  
box-shadow:4px 4px 4px 4px rgb(112, 210,  
99) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.9808, 50.4388, 19.8545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 210, 99) }
```

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

```
.background{ background-color: rgb(112,  
210, 99) }
```

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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