

# Converting Colors

XYZ(51.5008, 68.1734, 23.7904)

Have a look what the booklet for  
XYZ(51.5008, 68.1734, 23.7904)  
contains.

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# Color

**XYZ(51.5857, 68.3049,  
23.8299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCE669
RGB	188, 230, 105
RGB Percent	74%, 90%, 41%
CMY	0.2627, 0.0980, 0.5882
CMYK	0.18, 0.00, 0.54, 0.10
HSL	80°, 71%, 66%
HSV	80°, 54%, 90%
XYZ	51.5857, 68.3049, 23.8299
YIQ	203.1920, 15.0930, -47.7790

# Conversions

## Conversions Part 2

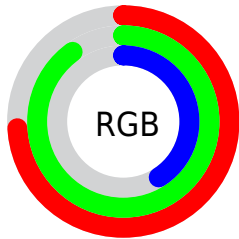
Format	Color
<a href="#">RYB</a>	<a href="#">105, 230, 147</a>
Decimal	<a href="#">12379753</a>
CIELab	<a href="#">86.16, -32.49, 55.61</a>
CIElCh	<a href="#">86, 64.404, 120.296</a>
Yxy	<a href="#">68.3049, 0.3589, 0.4753</a>
Android (android.graphics.Color)	<a href="#">4290569833 (0xFFBCE669)</a>
YUV	<a href="#">203.1920, -48.4087, -13.3234</a>
Hunter-Lab	<a href="#">82.6468, -33.2174, 40.7574</a>

# Details

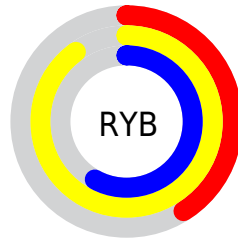
The XYZ color **51.5857, 68.3049, 23.8299** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **31.3698, 22.0212, 77.4639**, and the grayscale version is **57.1751, 60.1527, 65.5063**.

A 20% lighter version of the original color is **80.0240, 93.6160, 46.6529**, and **25.2493, 35.4167, 8.6373** is the 20% darker color. If you saturate the color by 10%, you get **48.7070, 66.9417, 18.3371**, and if you desaturate by 10%, it is **54.8894, 69.8546, 31.0138**.

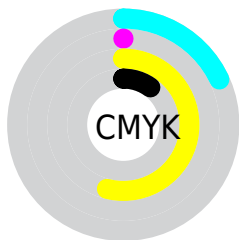
# Distribution



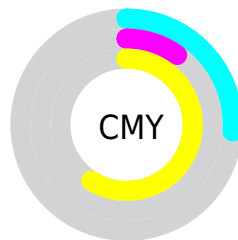
- Red (74%)
- Green (90%)
- Blue (41%)



- Red (41%)
- Yellow (90%)
- Blue (58%)



- Cyan (18%)
- Magenta (0%)
- Yellow (54%)
- Black (10%)




- Cyan (26%)
- Magenta (10%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.5857, 68.3049, 23.8299 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 51.5857, 68.3049, 23.8299 by changing the saturation by 10% instead.





 51.5857, 68.3049,  
23.8299


 51.5857, 68.3049,  
23.8299


383.1854,  
454.5755, 285.2182

 36.8979, 50.1458,  
14.9965


 91.6978, 116.7882,  
50.6928


 25.3017, 35.5293,  
8.6703


 117.8528,  
147.8813, 69.5594

 16.4319, 24.0709,  
4.4329

 148.5609,  
184.0544, 92.6074

 9.9231, 15.3862,  
1.8657

 184.1874,  
225.6920, 120.2554

 5.4099, 9.0909,  
0.4708

225.0978,  
273.1786, 152.9220

 2.5269, 4.8005,  
0.0000

271.6574,

 0.9088, 2.1307,

326.8984, 191.0256

0.0000

324.2314,  
387.2359, 234.9848

0.0000, 0.6818,  
0.0000

0.0000, 0.0000,  
0.0000

51.5857, 68.3049,  
23.8299

51.5857, 68.3049,  
23.8299

48.7070, 66.9417,  
18.3371

54.8894, 69.8546,  
31.0138

46.2203, 65.7445,  
14.3919


58.6381, 71.5920,  
40.0082

44.0950, 64.7033,  
11.8342


62.8564, 73.5293,  
50.9267


42.2920, 63.8022,  
10.4669

67.5652, 75.6751,  
63.8724

 41.3814, 63.3412,  
10.0450

 72.7841, 78.0374,  
78.9410

 78.5316, 80.6239,  
96.2222

 83.0017, 82.7121,  
106.1981

 85.7125, 84.1096,  
106.3250

 87.5883, 85.0766,  
106.4128

# Harmonies

## Analogous

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



64.7749, 68.3049, 18.9849



51.5857, 68.3049, 23.8299



43.1889, 68.3049, 40.8284

# Triad

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



51.5857, 68.3049, 23.8299



51.8043, 68.3049, 170.1234



97.7772, 68.3049, 73.9524

# Complementary

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



51.5857, 68.3049, 23.8299



31.3698, 22.0212, 77.4639

# 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.



92.9413, 68.3049, 122.5662



51.5857, 68.3049, 23.8299



65.0688, 68.3049, 189.4201

# Square

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



51.5857, 68.3049, 23.8299



43.3010, 68.3049, 123.5859



80.3784, 68.3049, 169.3939



92.7548, 68.3049, 40.3417



# Rectangle

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



51.5857, 68.3049, 23.8299



40.6965, 68.3049, 61.4505



80.3784, 68.3049, 169.3939



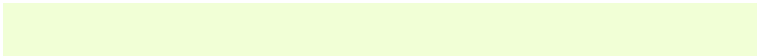
97.2431, 68.3049, 88.9896

# Sweetspot

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



51.5873, 68.3079, 23.8314



84.2978, 95.1371, 77.6727



45.5674, 38.6090, 18.4162



17.7733, 20.2405, 15.8745



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.



51.5873, 68.3079, 23.8314



61.2071, 84.4289, 22.5768



39.4284, 62.0398, 23.2623



15.1065, 16.5620, 15.3050



23.5618, 35.9280, 5.6930



1.8390, 2.7054, 0.4253



# Inverse Universe

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



31.3698, 22.0212, 77.4639



33.3111, 20.4215, 96.7938



45.6787, 29.3977, 78.1336



14.0370, 14.1213, 18.1302



9.9486, 4.1946, 42.6685

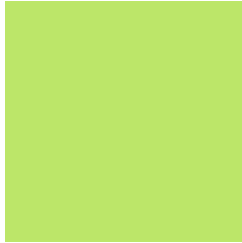


0.8312, 0.3595, 3.1575



# Previews

## White Background



This preview shows how the XYZ color 51.5857, 68.3049, 23.8299 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 51.5857, 68.3049, 23.8299 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 51.5857, 68.3049, 23.8299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.5857, 68.3049, 23.8299.



This preview shows how white text looks on a background with the XYZ color 51.5857, 68.3049,



# 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

51.5857, 68.3049, 23.8299

### Protanopia

61.8606, 67.6981, 21.8632

### Deuteranopia

68.2864, 67.7791, 34.2945



## Tritanopia

64.1657, 67.8323, 86.8018

# Trichromacy



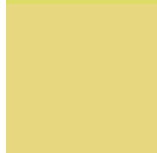
## Original Color

51.5857, 68.3049, 23.8299



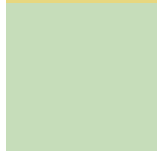
## Protanomaly

57.5067, 67.3614, 22.5415



## Deuteranomaly

61.0862, 67.1221, 29.8149



## Tritanomaly

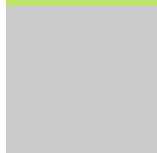
58.0081, 67.2638, 56.3802

# Monochromacy



## Original Color

51.5857, 68.3049, 23.8299



## Achromatopsia

56.7640, 59.7202, 65.0353



## Achromatomaly

54.0580, 62.3843, 45.7514

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.5857, 68.3049, 23.8299 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(188, 230, 105)` looks like.

```
.text, #text, p{  
    color:rgb(188, 230, 105)  
}
```

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(188, 230, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 230, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 51.5857, 68.3049, 23.8299 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(188, 230, 105) }
```



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

```
.border{ border-color:rgb(188, 230, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 230, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 230, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 230, 105);  
box-shadow:4px 4px 4px 4px rgb(188, 230,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.5857, 68.3049, 23.8299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 230, 105) }
```

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

```
.background{ background-color: rgb(188,  
230, 105) }
```

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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