

# Converting Colors

XYZ(59.6645, 80.2332, 20.3642)

Have a look what the booklet for  
XYZ(59.6645, 80.2332, 20.3642)  
contains.

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# Color

**XYZ(59.7190, 80.4405,  
20.3617)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CBF852
RGB	203, 248, 82
RGB Percent	80%, 97%, 32%
CMY	0.2039, 0.0274, 0.6784
CMYK	0.18, 0.00, 0.67, 0.03
HSL	76°, 92%, 65%
HSV	76°, 67%, 97%
XYZ	59.7190, 80.4405, 20.3617
YIQ	215.6210, 26.4660, -61.1660

# Conversions

## Conversions Part 2

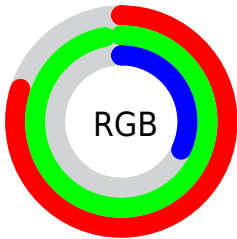
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	82, 248, 127
Decimal	13367378
CIE <sub>Lab</sub>	91.88, -36.76, 71.63
CIE <sub>LCh</sub>	92, 80.515, 117.167
Yxy	80.4405, 0.3720, 0.5011
Android (android.graphics.Color)	4291557458 (0xFFC8F852)
YUV	215.6210, -65.8752, -11.0686
Hunter-Lab	89.6886, -38.1012, 49.3216

# Details

The XYZ color **59.7190, 80.4405, 20.3617** is a light color, and the websafe version is hex **CCFF66**. The color can be described as light muted yellow. A complement of this color would be **28.7160, 17.3260, 90.6424**, and the grayscale version is **65.4357, 68.8434, 74.9705**.

A 20% lighter version of the original color is **81.6602, 94.6441, 38.3903**, and **30.3352, 43.2923, 6.9010** is the 20% darker color. If you saturate the color by 10%, you get **57.1495, 79.2086, 16.1745**, and if you desaturate by 10%, it is **62.7125, 81.8569, 26.3512**.

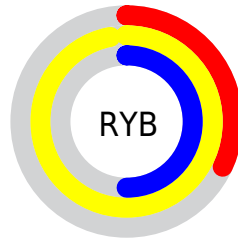
# Distribution



Red (80%)

Green (97%)

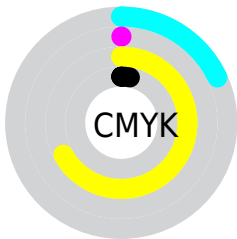
Blue (32%)



Red (32%)

Yellow (97%)

Blue (50%)

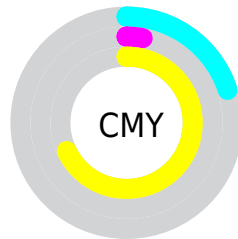


Cyan (18%)

Magenta (0%)

Yellow (67%)

Black (3%)



Cyan (20%)

Magenta (3%)


Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.7190, 80.4405, 20.3617 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 59.7190, 80.4405, 20.3617 by changing the saturation by 10% instead.




 59.7190, 80.4405,  
20.3617


 59.7190, 80.4405,  
20.3617


413.4126,  
496.4161, 266.5352


 43.4408, 60.0809,  
12.4716


 103.5306,  
133.9849, 44.8897


 30.4271, 43.4839,  
6.9393


 131.7947,  
167.9384, 62.3646

 20.3127, 30.2649,  
3.3463


 164.7848,  
207.1921, 83.8715

 12.7321, 20.0398,  
1.2740

 202.8662,  
252.1303, 109.8290

 7.3201, 12.4240,  
0.0404

246.4044,  
303.1374, 140.6556

 3.7112, 7.0331,  
0.0000

295.7646,

 1.5401, 3.4828,

360.5978, 176.7698

0.0000

351.3122,  
424.8959, 218.5902

0.3529, 1.3887,  
0.0000

0.0000, 0.2084,  
0.0000

59.7190, 80.4405,  
20.3617

59.7190, 80.4405,  
20.3617

57.1495, 79.2086,  
16.1745

62.7125, 81.8569,  
26.3512

54.9588, 78.1344,  
13.5803

66.1585, 83.4608,  
34.3116

53.0983, 77.2012,  
12.3211

70.0888, 85.2677,  
44.3979

52.5704, 76.9339,  
12.0790

74.5306, 87.2888,  
56.7482

79.5089, 89.5341,  
71.4892

85.0468, 92.0130,  
88.7378

91.0677, 94.6948,  
108.0859

92.8592, 95.6184,  
108.1697

# Harmonies

## Analogous

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



78.4362, 80.4405, 16.0213



59.7190, 80.4405, 20.3617



47.7054, 80.4405, 39.2581

# Triad

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



59.7190, 80.4405, 20.3617



56.8814, 80.4405, 222.1316



123.3776, 80.4405, 93.3292

# Complementary

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



59.7190, 80.4405, 20.3617



28.7160, 17.3260, 90.6424

# 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.



114.9171, 80.4405, 164.8615



59.7190, 80.4405, 20.3617



74.5100, 80.4405, 257.3794

# Square

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



59.7190, 80.4405, 20.3617



46.2863, 80.4405, 150.4577



96.0606, 80.4405, 232.7520



117.5122, 80.4405, 45.2420



# Rectangle

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



59.7190, 80.4405, 20.3617



43.9030, 80.4405, 64.6739



96.0606, 80.4405, 232.7520



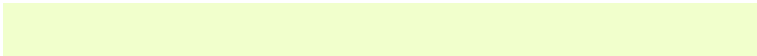
122.0841, 80.4405, 115.3561

# Sweetspot

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



59.7209, 80.4441, 20.3634



82.9937, 94.6108, 71.0142



47.7324, 35.5583, 12.3314



17.4429, 20.1058, 14.2463



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.



59.7209, 80.4441, 20.3634



60.0946, 83.9959, 16.1775



42.9410, 71.7938, 19.5781



18.2415, 19.9403, 18.3498



28.5383, 41.6303, 6.5313



2.7444, 3.9079, 0.6097



# Inverse Universe

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



28.7160, 17.3260, 90.6424



25.2144, 12.6708, 95.7245



46.3335, 26.4082, 91.4669



16.7245, 16.8706, 21.7602



10.5261, 4.3691, 48.2621

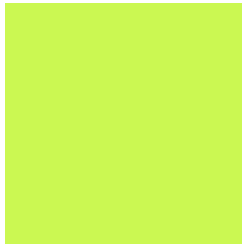


1.0717, 0.4545, 4.4744



# Previews

## White Background



This preview shows how the XYZ color 59.7190, 80.4405, 20.3617 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

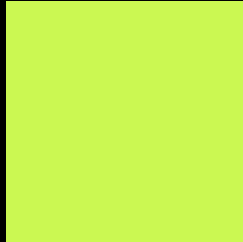
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 59.7190, 80.4405, 20.3617 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 59.7190, 80.4405, 20.3617**

## **Background**



This preview shows how black text looks on a background with the XYZ color 59.7190, 80.4405, 20.3617.



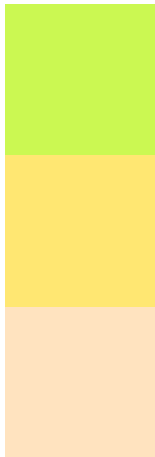
This preview shows how white text looks on a background with the XYZ color 59.7190, 80.4405,



# 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

59.7190, 80.4405, 20.3617

### Protanopia

72.8532, 79.6267, 27.4493

### Deuteranopia

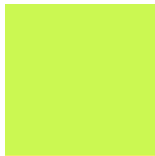
78.1131, 79.9598, 60.6070



## Tritanopia

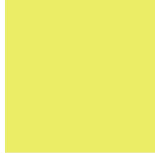
76.2361, 80.1449, 101.8939

# Trichromacy



## Original Color

59.7190, 80.4405, 20.3617



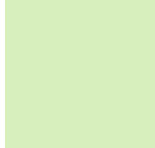
## Protanomaly

67.2745, 79.3605, 24.3427



## Deuteranomaly

69.8863, 79.4839, 40.9367



## Tritanomaly

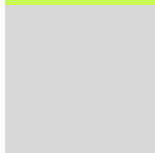
67.7842, 79.2703, 59.8722

# Monochromacy



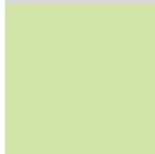
## Original Color

59.7190, 80.4405, 20.3617



## Achromatopsia

65.2694, 68.6685, 74.7800



## Achromatomaly

61.5824, 72.1257, 47.2351

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.7190, 80.4405, 20.3617 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(203, 248, 82)` looks like.

```
.text, #text, p{  
    color:rgb(203, 248, 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(203, 248, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 248, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 59.7190, 80.4405, 20.3617 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(203, 248, 82) }
```



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

```
.border{ border-color:rgb(203, 248, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 248, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 248, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 248, 82);  
box-shadow:4px 4px 4px 4px rgb(203, 248,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 59.7190, 80.4405, 20.3617 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 248, 82) }
```

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

```
.background{ background-color: rgb(203,  
248, 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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