

# Converting Colors

XYZ(59.9223, 83.5373, 32.8757)

Have a look what the booklet for  
XYZ(59.9223, 83.5373, 32.8757)  
contains.

<b>XYZ(59.8405, 83.4914, 33.0402)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(59.8405, 83.4914,  
33.0402)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BAFF7F
RGB	186, 255, 127
RGB Percent	73%, 100%, 50%
CMY	0.2706, 0.0000, 0.5019
CMYK	0.27, 0.00, 0.50, 0.00
HSL	92°, 100%, 75%
HSV	92°, 50%, 100%
XYZ	59.8405, 83.4914, 33.0402
YIQ	219.7770, -0.0360, -54.4360

# Conversions

## Conversions Part 2

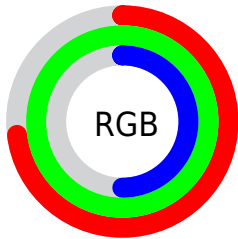
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">127, 255, 196</a>
Decimal	<a href="#">12255103</a>
CIELab	<a href="#">93.23, -42.28, 53.93</a>
CIElCh	<a href="#">93, 68.525, 128.095</a>
Yxy	<a href="#">83.4914, 0.3393, 0.4734</a>
Android (android.graphics.Color)	<a href="#">4290445183 (0xFFBAFF7F)</a>
YUV	<a href="#">219.7770, -45.7391, -29.6224</a>
Hunter-Lab	<a href="#">91.3736, -43.0044, 42.5226</a>

# Details

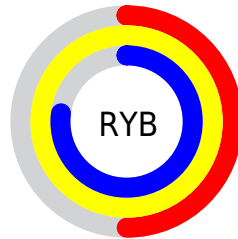
The XYZ color **59.8405, 83.4914, 33.0402** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **48.4056, 34.1359, 98.6454**, and the grayscale version is **68.1806, 71.7313, 78.1154**.

A 20% lighter version of the original color is **81.5117, 94.1305, 58.1288**, and **30.4834, 45.5497, 13.6639** is the 20% darker color. If you saturate the color by 10%, you get **55.2028, 81.2689, 25.2187**, and if you desaturate by 10%, it is **65.2207, 86.0481, 43.0939**.

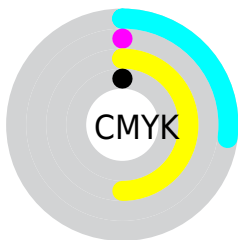
# Distribution



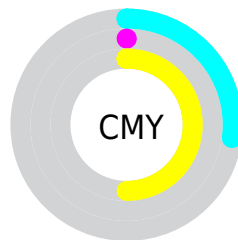
- Red (73%)
- Green (100%)
- Blue (50%)



- Red (50%)
- Yellow (100%)
- Blue (77%)



- Cyan (27%)
- Magenta (0%)
- Yellow (50%)
- Black (0%)




- Cyan (27%)
- Magenta (0%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.8405, 83.4914, 33.0402 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 59.8405, 83.4914, 33.0402 by changing the saturation by 10% instead.





 59.8405, 83.4914,  
33.0402

 59.8405, 83.4914,  
33.0402


413.8538,  
506.6228, 330.4684


 43.5391, 62.5956,  
21.8859


 103.7059,  
138.2635, 65.5550

 30.5046, 45.5141,  
13.5756


 132.0006,  
172.9086, 87.7526

 20.3719, 31.8626,  
7.6907

 165.0237,  
212.9056, 114.4683

 12.7755, 21.2566,  
3.8127

203.1407,  
258.6389, 146.1208

 7.3501, 13.3117,  
1.5232

246.7168,  
310.4928, 183.1285

 3.7303, 7.6435,  
0.2351

296.1175,

 1.5507, 3.8677,

368.8519, 225.9099

0.0000

351.7080,  
434.1004, 274.8837

■ 0.3599, 1.5998,  
0.0000

■ 0.0000, 0.3575,  
0.0000

■ 59.8405, 83.4914,  
33.0402

■ 59.8405, 83.4914,  
33.0402

■ 55.2028, 81.2689,  
25.2187

■ 65.2207, 86.0481,  
43.0939

■ 51.2652, 79.3625,  
19.4547

■ 71.3801, 88.9545,  
55.5292

■ 47.9817, 77.7527,  
15.5538

■ 78.3538, 92.2257,  
70.4867

■ 45.2979, 76.4167,  
13.2824

■ 86.1742, 95.8756,  
88.0953

■ 43.1683, 75.3391,  
12.2667

94.8718, 99.9173,  
108.4750

95.0500, 100.0000,  
108.9000

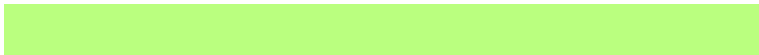
# Harmonies

## Analogous

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



74.5763, 83.4914, 23.8042



59.8405, 83.4914, 33.0402



51.3536, 83.4914, 58.6846

# Triad

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



59.8405, 83.4914, 33.0402



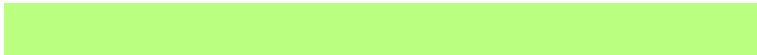
67.1184, 83.4914, 217.5583



118.8413, 83.4914, 77.6382

# Complementary

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



59.8405, 83.4914, 33.0402



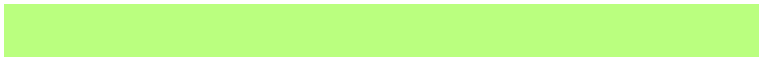
48.4056, 34.1359, 98.6454

# 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.



116.0410, 83.4914, 133.1825



59.8405, 83.4914, 33.0402



84.3359, 83.4914, 228.7958

# Square

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



59.8405, 83.4914, 33.0402



55.0912, 83.4914, 166.9051



102.7110, 83.4914, 193.5029

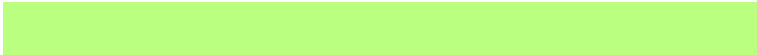


109.8679, 83.4914, 42.3995



# Rectangle

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



59.8405, 83.4914, 33.0402



49.5187, 83.4914, 87.6486



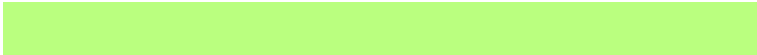
102.7110, 83.4914, 193.5029



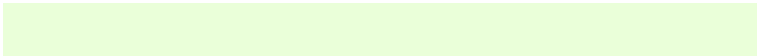
119.2686, 83.4914, 94.2470

# Sweetspot

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



59.8408, 83.4915, 33.0414



82.3086, 94.0736, 79.2952



64.6463, 61.9430, 28.6289



17.2679, 19.9725, 16.1886



0.0000, 0.0000, 0.0000

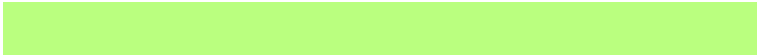


20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



59.8408, 83.4915, 33.0414



55.2862, 81.3091, 25.3507



48.6280, 77.6783, 33.9993



18.5672, 20.5783, 19.1377



22.7243, 39.4529, 6.4175



2.3369, 3.9055, 0.6307



# Inverse Universe

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



48.4056, 34.1359, 98.6454



42.6833, 26.9723, 97.5643



66.2004, 43.3879, 95.9322



17.9385, 17.8600, 22.7518



15.0363, 6.6620, 49.9280

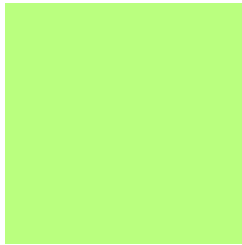


1.5901, 0.7137, 4.8672



# Previews

## White Background



This preview shows how the XYZ color 59.8405, 83.4914, 33.0402 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

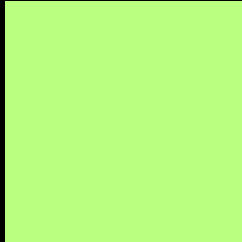
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 59.8405, 83.4914, 33.0402 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

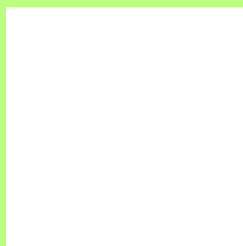
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 59.8405, 83.4914, 33.0402

## Background



This preview shows how black text looks on a background with the XYZ color 59.8405, 83.4914, 33.0402.



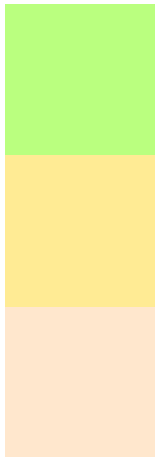
This preview shows how white text looks on a background with the XYZ color 59.8405, 83.4914,



# 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

59.8405, 83.4914, 33.0402

### Protanopia

76.2936, 82.8148, 39.9807

### Deuteranopia

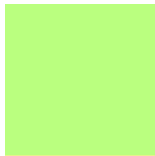
80.8354, 82.8196, 69.4829



## Tritanopia

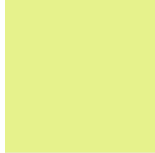
75.7805, 82.8019, 106.5960

# Trichromacy



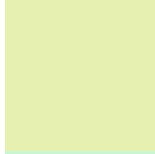
## Original Color

59.8405, 83.4914, 33.0402



## Protanomaly

69.1189, 82.2207, 37.0382



## Deuteranomaly

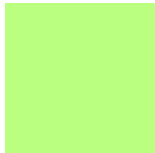
71.7290, 82.3175, 53.7033



## Tritanomaly

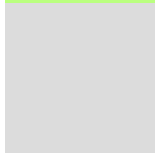
68.3947, 82.4154, 71.9775

# Monochromacy



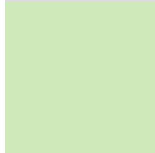
## Original Color

59.8405, 83.4914, 33.0402



## Achromatopsia

68.0267, 71.5694, 77.9390



## Achromatomaly

64.0143, 75.2329, 57.6019

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.8405, 83.4914, 33.0402 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(186, 255, 127)` looks like.

```
.text, #text, p{  
    color:rgb(186, 255, 127)  
}
```

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(186, 255, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 255, 127) }
```

## Border

The CSS property to change the border of an element to XYZ 59.8405, 83.4914, 33.0402 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(186, 255, 127) }
```



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

```
.border{ border-color:rgb(186, 255, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 255, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 255, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 255, 127);  
box-shadow:4px 4px 4px 4px rgb(186, 255,  
127) }
```

# Background

The CSS property to change the background color of an element to XYZ 59.8405, 83.4914, 33.0402 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 255, 127) }
```

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

```
.background{ background-color: rgb(186,  
255, 127) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor