

# Converting Colors

XYZ(103.7932, 158.3343,  
63.7253)

Have a look what the booklet for  
XYZ(103.7932, 158.3343, 63.7253)  
contains.

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# Color

**XYZ(68.2875, 87.4394,  
51.8064)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDFFAB
RGB	205, 255, 171
RGB Percent	80%, 100%, 67%
CMY	0.1961, 0.0000, 0.3294
CMYK	0.20, 0.00, 0.33, 0.00
HSL	96°, 100%, 84%
HSV	96°, 33%, 100%
XYZ	68.2875, 87.4394, 51.8064
YIQ	230.4740, -2.8360, -36.7240

# Conversions

## Conversions Part 2

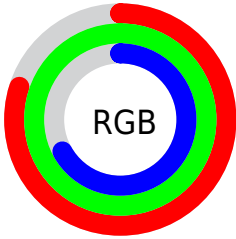
Format	Color
<b>RYB</b>	171, 255, 221
Decimal	13500331
CIELab	94.92, -30.30, 35.11
CIELCh	95, 46.380, 130.794
Yxy	87.4394, 0.3290, 0.4213
Android (android.graphics.Color)	4291690411 (0xFFCDDFFAB)
YUV	230.4740, -29.3207, -22.3407
Hunter-Lab	93.5090, -33.2864, 32.6081

# Details

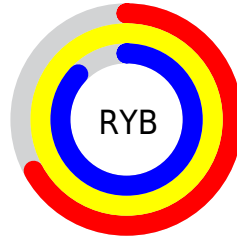
The XYZ color **68.2875, 87.4394, 51.8064** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **62.4328, 51.7192, 101.3000**, and the grayscale version is **75.7766, 79.7229, 86.8182**.

A 20% lighter version of the original color is **90.8651, 98.3261, 86.8628**, and **35.8585, 48.0857, 24.5311** is the 20% darker color. If you saturate the color by 10%, you get **62.1004, 84.5041, 40.0296**, and if you desaturate by 10%, it is **75.3507, 90.7721, 66.0743**.

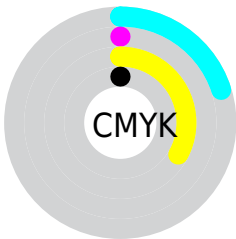
# Distribution



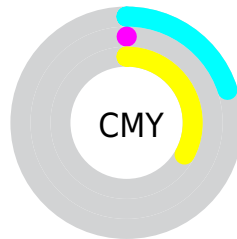
- Red (80%)
- Green (100%)
- Blue (67%)



- Red (67%)
- Yellow (100%)
- Blue (87%)



- Cyan (20%)
- Magenta (0%)
- Yellow (33%)
- Black (0%)




- Cyan (20%)
- Magenta (0%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.2875, 87.4394, 51.8064 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 68.2875, 87.4394, 51.8064 by changing the saturation by 10% instead.





 68.2875, 87.4394,  
51.8064

 68.2875, 87.4394,  
51.8064


443.8747,  
519.6656, 410.6244

 50.4062, 65.8589,  
36.4696


 115.8030,  
143.7764, 94.2693

 35.9554, 48.1579,  
24.5045


146.1679,  
179.3017, 122.2325

 24.5697, 33.9519,  
15.4927

181.4247,  
220.2441, 155.2417

 15.8838, 22.8567,  
9.0154


221.9387,  
266.9879, 193.7152

 9.5323, 14.4877,  
4.6543

268.0754,  
319.9176, 238.0717

 5.1498, 8.4606,  
1.9907

320.2001,

 2.3711, 4.3911,

379.4175, 288.7297

0.5496

378.6781,  
445.8721, 346.1078

■ 0.8307, 1.8947,  
0.0000

■ 0.0000, 0.5452,  
0.0000

■ 68.2875, 87.4394,  
51.8064

■ 68.2875, 87.4394,  
51.8064

■ 62.1004, 84.5041,  
40.0296

■ 75.3507, 90.7721,  
66.0743

■ 56.7495, 81.9488,  
30.5968

■ 83.3245, 94.5173,  
82.9610

■ 52.1933, 79.7557,  
23.3518

■ 92.2433, 98.6898,  
102.5901

■ 48.3857, 77.9047,  
18.1176

95.0500, 100.0000,  
108.9000

■ 45.2748, 76.3736,  
14.6895

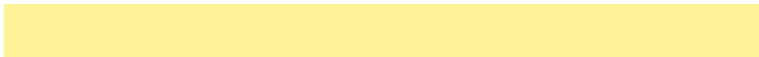
■ 42.7992, 75.1362,  
12.8194

■ 41.3778, 74.4161,  
12.1829

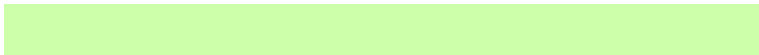
# Harmonies

## Analogous

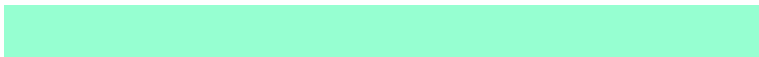
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.6610, 87.4394, 42.0880



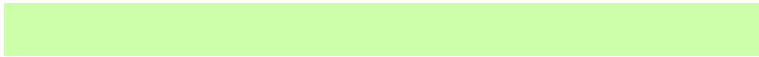
68.2875, 87.4394, 51.8064



62.2975, 87.4394, 74.1899

# Triad

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



68.2875, 87.4394, 51.8064



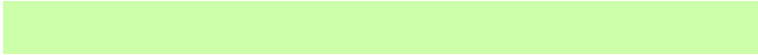
75.4034, 87.4394, 176.7399



109.2018, 87.4394, 82.8152

# Complementary

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



68.2875, 87.4394, 51.8064



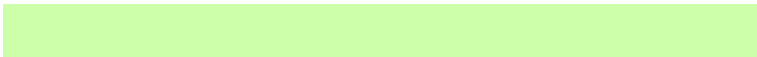
62.4328, 51.7192, 101.3000

# Split Complementary

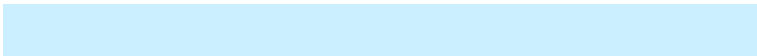
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



108.1039, 87.4394, 119.8591



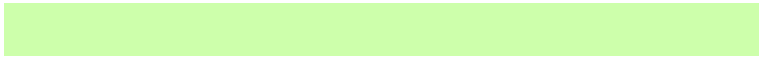
68.2875, 87.4394, 51.8064



87.7206, 87.4394, 180.7420

# Square

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



68.2875, 87.4394, 51.8064



66.1102, 87.4394, 148.0091



99.9324, 87.4394, 157.8618

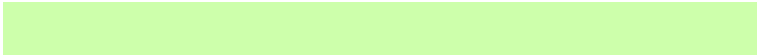


102.7961, 87.4394, 56.7443

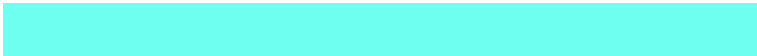


# Rectangle

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



68.2875, 87.4394, 51.8064



61.1952, 87.4394, 96.1694



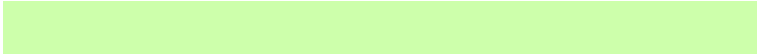
99.9324, 87.4394, 157.8618



109.7132, 87.4394, 94.2503

# Sweetspot

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



68.2879, 87.4396, 51.8077



85.8473, 95.6991, 88.4424



74.1844, 75.3873, 49.1706



18.1146, 20.3616, 18.3631



0.0000, 0.0000, 0.0000

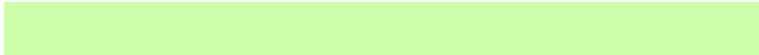


20.3446, 21.4041, 23.3091

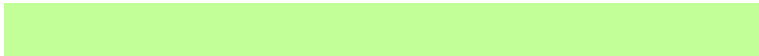


# Same Dimension

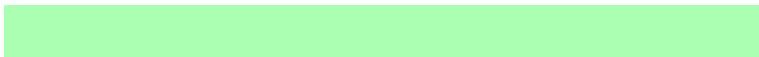
The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.2879, 87.4396, 51.8077



63.8310, 85.3269, 43.2425



60.5912, 83.3927, 55.0236



18.4676, 20.5270, 19.1331



21.7790, 38.9656, 6.3732



2.2403, 3.8557, 0.6261



# Inverse Universe

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



62.4328, 51.7192, 101.3000



57.0898, 44.2558, 100.1410



72.7467, 57.1641, 96.0067



18.0399, 17.9123, 22.7566



16.3503, 7.3394, 49.9895

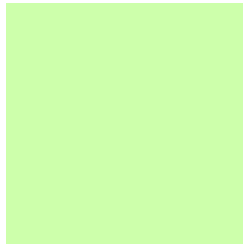


1.7157, 0.7784, 4.8731



# Previews

## White Background



This preview shows how the XYZ color 68.2875, 87.4394, 51.8064 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

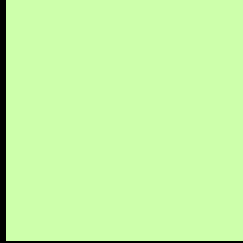
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.2875, 87.4394, 51.8064 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

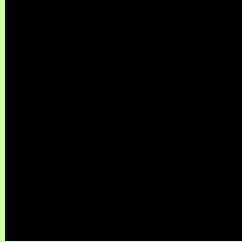
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 68.2875, 87.4394, 51.8064

## Background



This preview shows how black text looks on a background with the XYZ color 68.2875, 87.4394, 51.8064.



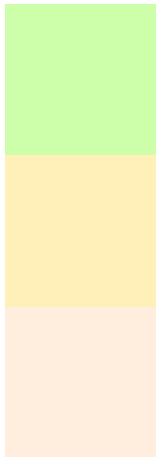
This preview shows how white text looks on a background with the XYZ color 68.2875, 87.4394,

51.8064.

# 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

68.2875, 87.4394, 51.8064

### Protanopia

81.1570, 87.0830, 58.4302

### Deuteranopia

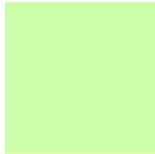
84.7090, 87.1023, 81.4550



## Tritanopia

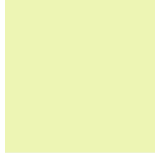
81.4807, 87.0552, 107.1166

# Trichromacy



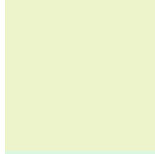
## Original Color

68.2875, 87.4394, 51.8064



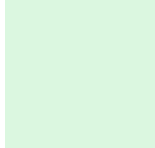
## Protanomaly

75.8157, 86.6046, 55.9005



## Deuteranomaly

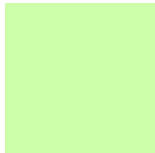
78.0552, 87.0177, 69.1821



## Tritanomaly

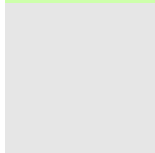
75.9287, 86.9634, 83.3048

# Monochromacy



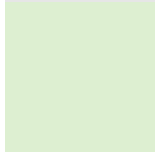
## Original Color

68.2875, 87.4394, 51.8064



## Achromatopsia

75.2129, 79.1298, 86.1723



## Achromatomaly

72.1939, 81.7086, 72.2879

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.2875, 87.4394, 51.8064 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(205, 255, 171)` looks like.

```
.text, #text, p{  
    color:rgb(205, 255, 171)  
}
```

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(205, 255, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 255, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 68.2875, 87.4394, 51.8064 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(205, 255, 171) }
```



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

```
.border{ border-color:rgb(205, 255, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 255, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 255, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 255, 171);  
box-shadow:4px 4px 4px 4px rgb(205, 255,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.2875, 87.4394, 51.8064 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 255, 171) }
```

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

```
.background{ background-color: rgb(205,  
255, 171) }
```

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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