

# Converting Colors

XYZ(68.8352, 87.6509, 55.0321)

Have a look what the booklet for  
XYZ(68.8352, 87.6509, 55.0321)  
contains.

**XYZ(68.8726, 87.6735, 54.8877) ..... 3**

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# Color

**XYZ(68.8726, 87.6735,  
54.8877)**

# Conversions

Conversions Part 1	
Format	Color
Hex	CDFFB1
RGB	205, 255, 177
RGB Percent	80%, 100%, 69%
CMY	0.1961, 0.0000, 0.3059
CMYK	0.20, 0.00, 0.31, 0.00
HSL	98°, 100%, 85%
HSV	98°, 31%, 100%
XYZ	68.8726, 87.6735, 54.8877
YIQ	231.1580, -4.7620, -34.8580

# Conversions

## Conversions Part 2

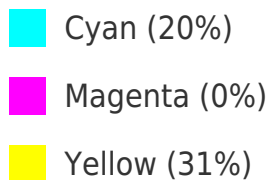
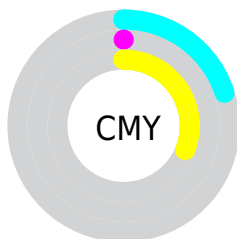
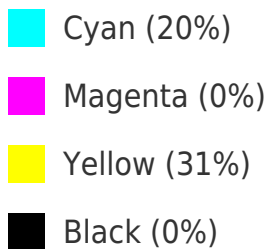
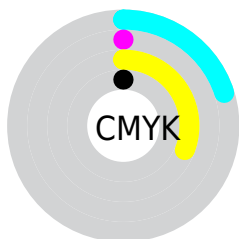
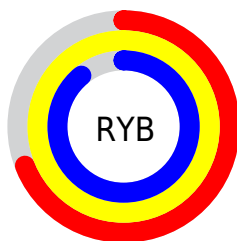
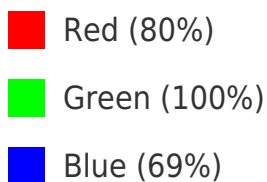
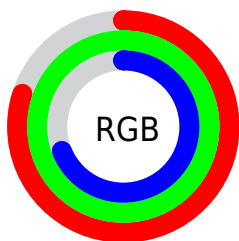
Format	Color
<a href="#">RYB</a>	<a href="#">177, 255, 227</a>
Decimal	<a href="#">13500337</a>
CIELab	<a href="#">95.02, -29.45, 32.25</a>
CIELCh	<a href="#">95, 43.673, 132.407</a>
Yxy	<a href="#">87.6735, 0.3257, 0.4147</a>
Android (android.graphics.Color)	<a href="#">4291690417</a> (0xFFCDDFB1)
YUV	<a href="#">231.1580, -26.6999, -22.9406</a>
Hunter-Lab	<a href="#">93.6341, -32.5640, 30.7885</a>

# Details

The XYZ color **68.8726, 87.6735, 54.8877** is a light color, and the websafe version is hex **CCFF99**. A complement of this color would be **65.4519, 54.9965, 101.7734**, and the grayscale version is **76.2679, 80.2397, 87.3811**.

A 20% lighter version of the original color is **91.7080, 98.6632, 91.3012**, and **36.4099, 48.3274, 26.4779** is the 20% darker color. If you saturate the color by 10%, you get **62.2873, 84.5453, 42.5286**, and if you desaturate by 10%, it is **76.4048, 91.2348, 69.7727**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.8726, 87.6735, 54.8877 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 68.8726, 87.6735, 54.8877 by changing the saturation by 10% instead.





 68.8726, 87.6735,  
54.8877

 68.8726, 87.6735,  
54.8877


445.9099,  
520.4334, 422.7560

 50.8842, 66.0527,  
38.9138


 116.6347,  
144.1025, 98.8459

 36.3371, 48.3152,  
26.3854


147.1390,  
179.6795, 127.6673

 24.8660, 34.0766,  
16.8838

182.5462,  
220.6774, 161.6083

 16.1055, 22.9524,  
9.9906

223.2213,  
267.4805, 201.0874

 9.6901, 14.5584,  
5.2872

269.5300,  
320.4733, 246.5232

 5.2547, 8.5100,  
2.3551


321.8374,


 2.4337, 4.4230,


380.0401, 298.3342


0.7618

380.5089,  
446.5653, 356.9390


 0.8620, 1.9129,  
0.0000


 0.0000, 0.5561,  
0.0000


 68.8726, 87.6735,  
54.8877


 68.8726, 87.6735,  
54.8877

 62.2873, 84.5453,  
42.5286


 76.4048, 91.2348,  
69.7727

 56.6069, 81.8319,  
32.5512

 84.9210, 95.2457,  
87.3091

 51.7874, 79.5139,  
24.8027

94.4575, 99.7223,  
107.6187

 47.7804, 77.5700,  
19.1113

95.0500, 100.0000,  
108.9000

■ 44.5318, 75.9767,  
15.2796

■ 41.9788, 74.7069,  
13.0716

■ 40.1273, 73.7714,  
12.1244

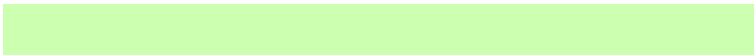
# Harmonies

## Analogous

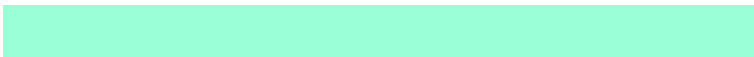
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.5248, 87.6735, 44.8112



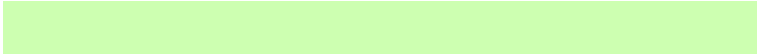
68.8726, 87.6735, 54.8877



63.4206, 87.6735, 77.0430

# Triad

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



68.8726, 87.6735, 54.8877



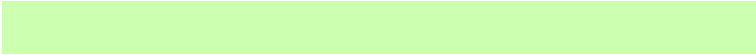
76.6237, 87.6735, 172.2720



107.6578, 87.6735, 82.1002

# Complementary

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



68.8726, 87.6735, 54.8877



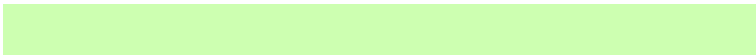
65.4519, 54.9965, 101.7734

# Split Complementary

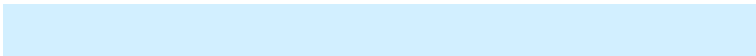
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



107.0252, 87.6735, 116.6039



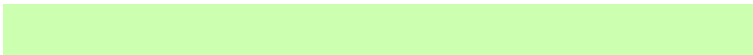
68.8726, 87.6735, 54.8877



88.3295, 87.6735, 174.5502

# Square

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



68.8726, 87.6735, 54.8877



67.5950, 87.6735, 146.6533



99.6833, 87.6735, 152.2902

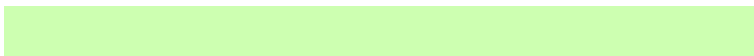


101.3374, 87.6735, 57.8295



# Rectangle

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



68.8726, 87.6735, 54.8877



62.5518, 87.6735, 98.2318



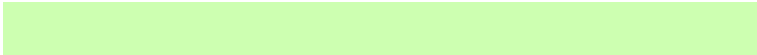
99.6833, 87.6735, 152.2902



108.2671, 87.6735, 92.7438

# Sweetspot

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



68.8730, 87.6736, 54.8890



86.3657, 95.9248, 90.3445



76.4816, 79.0454, 52.8226



18.2022, 20.3985, 18.7413



0.0000, 0.0000, 0.0000

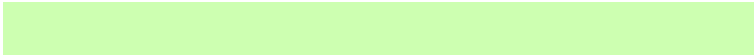


20.3446, 21.4041, 23.3091

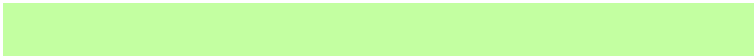


# Same Dimension

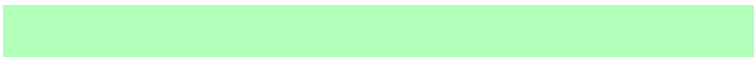
The Same Dimension uses a secret algorithm to generate beautiful new colors.



68.8730, 87.6736, 54.8890



64.5435, 85.6188, 46.6809



62.9048, 84.4725, 60.2292



18.3869, 20.4854, 19.1293



21.1149, 38.6232, 6.3422



2.1700, 3.8194, 0.6229



# Inverse Universe

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



65.4519, 54.9965, 101.7734



60.5929, 47.9805, 100.6753



73.3831, 59.2735, 93.6399



18.1231, 17.9552, 22.7605



17.5427, 7.9541, 50.0453

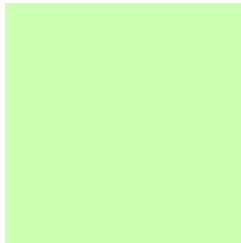


1.8274, 0.8360, 4.8783



# Previews

## White Background



This preview shows how the XYZ color 68.8726, 87.6735, 54.8877 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

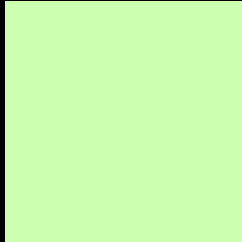
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.8726, 87.6735, 54.8877 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

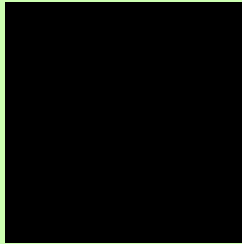
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

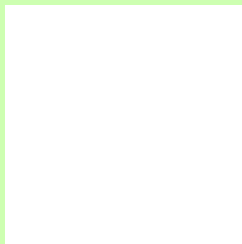
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.8726, 87.6735, 54.8877**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.8726, 87.6735, 54.8877.



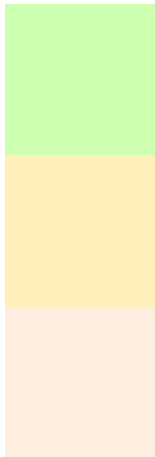
This preview shows how white text looks on a background with the XYZ color 68.8726, 87.6735,



# 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

68.8726, 87.6735, 54.8877

### Protanopia

81.3697, 87.1680, 59.5502

### Deuteranopia

84.8435, 87.1561, 82.1631



## **Tritanopia**

81.7791, 87.6521, 107.2161

# Trichromacy

	<b>Original Color</b> 68.8726, 87.6735, 54.8877
	<b>Protanomaly</b> 76.1247, 86.7282, 57.5278
	<b>Deuteranomaly</b> 78.4163, 87.1621, 71.0835
	<b>Tritanomaly</b> 76.3393, 87.1276, 85.4669

# Monochromacy

	<b>Original Color</b> 68.8726, 87.6735, 54.8877
	<b>Achromatopsia</b> 75.9547, 79.9103, 87.0223
	<b>Achromatomaly</b> 73.0422, 82.5529, 73.7126

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.8726, 87.6735, 54.8877 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, 177)` looks like.

```
.text, #text, p{  
    color:rgb(205, 255, 177)  
}
```

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, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 255, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 68.8726, 87.6735, 54.8877 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, 177) }
```



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

```
.border{ border-color:rgb(205, 255, 177) }
```

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, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 255, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 255, 177);  
box-shadow:4px 4px 4px 4px rgb(205, 255,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.8726, 87.6735, 54.8877 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, 177) }
```

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

```
.background{ background-color: rgb(205,  
255, 177) }
```

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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