

# Converting Colors

XYZ(70.9114, 100.0000,  
32.5096)

Have a look what the booklet for  
XYZ(70.9114, 100.0000, 32.5096)  
contains.

<b>XYZ(63.5995, 85.5009, 29.9809)</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(63.5995, 85.5009,  
29.9809)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CBFF75
RGB	203, 255, 117
RGB Percent	80%, 100%, 46%
CMY	0.2039, 0.0000, 0.5412
CMYK	0.20, 0.00, 0.54, 0.00
HSL	83°, 100%, 73%
HSV	83°, 54%, 100%
XYZ	63.5995, 85.5009, 29.9809
YIQ	223.7200, 13.3060, -53.9420

# Conversions

## Conversions Part 2

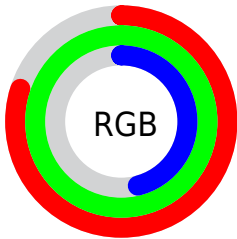
<b>Format</b>	<b>Color</b>
<b>RYB</b>	117, 255, 169
Decimal	13369205
CIELab	94.10, -37.23, 59.71
CIELCh	94, 70.368, 121.946
Yxy	85.5009, 0.3551, 0.4774
Android (android.graphics.Color)	4291559285 (0xFFCBBFF75)
YUV	223.7200, -52.6130, -18.1714
Hunter-Lab	92.4667, -39.0427, 45.5028

# Details

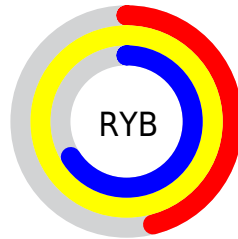
The XYZ color **63.5995, 85.5009, 29.9809** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **40.7748, 28.3790, 97.9364**, and the grayscale version is **71.0082, 74.7062, 81.3550**.

A 20% lighter version of the original color is **84.4464, 95.7586, 53.0622**, and **32.9176, 46.8470, 11.8649** is the 20% darker color. If you saturate the color by 10%, you get **59.7622, 83.6730, 23.0126**, and if you desaturate by 10%, it is **68.0077, 87.5759, 39.1095**.

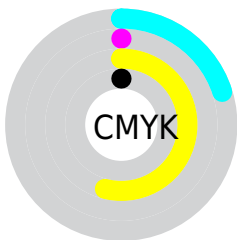
# Distribution



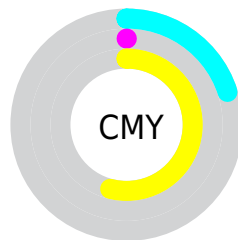
- Red (80%)
- Green (100%)
- Blue (46%)



- Red (46%)
- Yellow (100%)
- Blue (66%)



- Cyan (20%)
- Magenta (0%)
- Yellow (54%)
- Black (0%)




- Cyan (20%)
- Magenta (0%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.5995, 85.5009, 29.9809 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 63.5995, 85.5009, 29.9809 by changing the saturation by 10% instead.





 63.5995, 85.5009,  
29.9809

 63.5995, 85.5009,  
29.9809


427.3671,  
513.2841, 316.0199


 46.5868, 64.2553,  
19.5722


 109.1109,  
141.0728, 60.6926

 32.9157, 46.8575,  
11.9035


 138.3404,  
176.1679, 81.8327

 22.2208, 32.9230,  
6.5562

 172.3728,  
216.6484, 107.3869

 14.1368, 22.0675,  
3.1119

211.5736,  
262.8985, 137.7739

 8.2982, 13.9065,  
1.1521

256.3080,  
315.3028, 173.4122

 4.3397, 8.0557,  
0.0000

306.9415,

 1.8961, 4.1306,

374.2455, 214.7202

0.0000

363.8394,  
440.1111, 262.1166

■ 0.5746, 1.7469,  
0.0000

■ 0.0000, 0.4537,  
0.0000

■ 63.5995, 85.5009,  
29.9809

■ 63.5995, 85.5009,  
29.9809

■ 59.7622, 83.6730,  
23.0126

■ 68.0077, 87.5759,  
39.1095

■ 56.4584, 82.0768,  
18.0216

■ 73.0192, 89.9113,  
50.5538

■ 53.6457, 80.6952,  
14.8010

■ 78.6645, 92.5196,  
64.4593

■ 51.2727, 79.5071,  
13.0961

■ 84.9713, 95.4122,  
80.9585

■ 50.0402, 78.8817,  
12.5883

■ 91.9656, 98.5999,  
100.1742

95.0500, 100.0000,  
108.9000

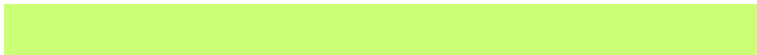
# Harmonies

## Analogous

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



80.0445, 85.5009, 23.2244



63.5995, 85.5009, 29.9809



53.3557, 85.5009, 52.4002

# Triad

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



63.5995, 85.5009, 29.9809



65.4225, 85.5009, 217.6142



123.0144, 85.5009, 89.6240

# Complementary

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



63.5995, 85.5009, 29.9809



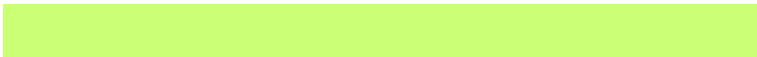
40.7748, 28.3790, 97.9364

# 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.



117.5260, 85.5009, 150.7696



63.5995, 85.5009, 29.9809



82.4999, 85.5009, 239.6382

# Square

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



63.5995, 85.5009, 29.9809



54.2885, 85.5009, 159.3249



101.9341, 85.5009, 211.4799

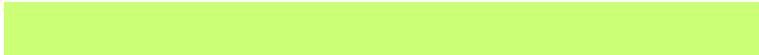


115.9629, 85.5009, 48.3573



# Rectangle

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



63.5995, 85.5009, 29.9809



50.4701, 85.5009, 79.3310



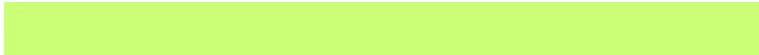
101.9341, 85.5009, 211.4799



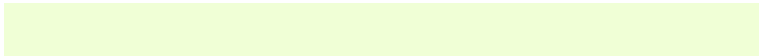
122.5724, 85.5009, 108.3676

# Sweetspot

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



63.5997, 85.5009, 29.9821



83.7314, 94.8451, 77.6461



58.3805, 50.4032, 23.4826



17.6379, 20.1706, 15.8682



0.0000, 0.0000, 0.0000

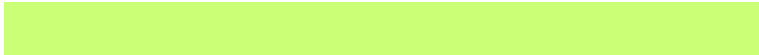


20.3446, 21.4041, 23.3091



# Same Dimension

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



63.5997, 85.5009, 29.9821



59.4493, 83.5228, 22.4945



49.0278, 77.9889, 29.3002



18.8591, 20.7288, 19.1514



26.3182, 41.3056, 6.5857



2.6838, 4.0843, 0.6469



# Inverse Universe

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



40.7748, 28.3790, 97.9364



34.5376, 21.0537, 96.8512



59.2036, 37.8793, 98.7988



17.6498, 17.7112, 22.7383



12.1090, 5.1529, 49.7910

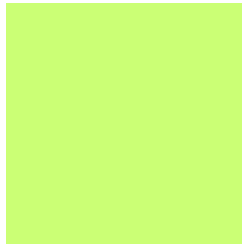


1.2955, 0.5618, 4.8534



# Previews

## White Background



This preview shows how the XYZ color 63.5995, 85.5009, 29.9809 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

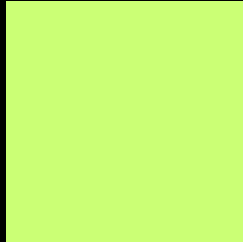
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.5995, 85.5009, 29.9809 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

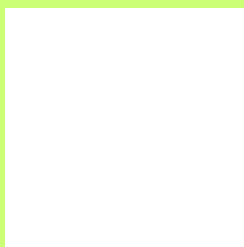
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 63.5995, 85.5009, 29.9809

## Background



This preview shows how black text looks on a background with the XYZ color 63.5995, 85.5009, 29.9809.



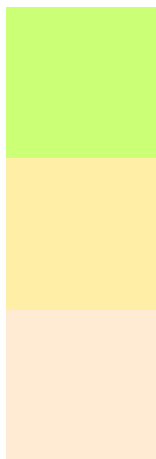
This preview shows how white text looks on a background with the XYZ color 63.5995, 85.5009,



# 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

63.5995, 85.5009, 29.9809

### Protanopia

78.6975, 85.1622, 48.3665

### Deuteranopia

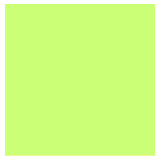
82.4207, 84.8088, 73.6537



## **Tritanopia**

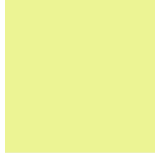
79.6570, 84.8003, 106.7775

# Trichromacy



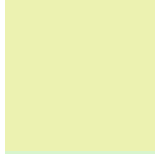
## Original Color

63.5995, 85.5009, 29.9809



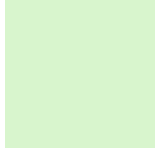
## Protanomaly

72.2881, 84.6724, 40.5504



## Deuteranomaly

74.2800, 84.5115, 53.9923



## Tritanomaly

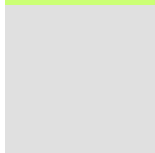
71.9908, 84.3115, 70.2370

# Monochromacy



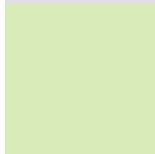
## Original Color

63.5995, 85.5009, 29.9809



## Achromatopsia

70.8507, 74.5404, 81.1745



## Achromatomaly

66.7842, 77.5184, 57.3416

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.5995, 85.5009, 29.9809 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, 255, 117)` looks like.

```
.text, #text, p{  
    color:rgb(203, 255, 117)  
}
```

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, 255, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 255, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 63.5995, 85.5009, 29.9809 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, 255, 117) }
```



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

```
.border{ border-color:rgb(203, 255, 117) }
```

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

Here you see how a box with a 4 pixel rgb(203, 255, 117) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 255, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 255, 117);  
box-shadow:4px 4px 4px 4px rgb(203, 255,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.5995, 85.5009, 29.9809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 255, 117) }
```

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

```
.background{ background-color: rgb(203,  
255, 117) }
```

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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