

# Converting Colors

XYZ(63.7650, 85.6797, 25.7484)

Have a look what the booklet for  
XYZ(63.7650, 85.6797, 25.7484)  
contains.

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# Color

**XYZ(63.8904, 85.7447,  
25.7534)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CFFF66
RGB	207, 255, 102
RGB Percent	81%, 100%, 40%
CMY	0.1882, 0.0000, 0.6000
CMYK	0.19, 0.00, 0.60, 0.00
HSL	79°, 100%, 70%
HSV	79°, 60%, 100%
XYZ	63.8904, 85.7447, 25.7534
YIQ	223.2060, 20.5050, -57.7590

# Conversions

## Conversions Part 2

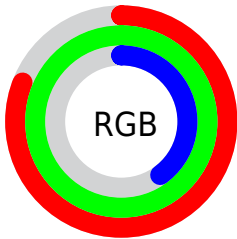
Format	Color
<a href="#">RYB</a>	<a href="#">102, 255, 150</a>
Decimal	<a href="#">13631334</a>
CIELab	<a href="#">94.20, -37.02, 66.32</a>
CIElCh	<a href="#">94, 75.951, 119.170</a>
Yxy	<a href="#">85.7447, 0.3643, 0.4889</a>
Android (android.graphics.Color)	<a href="#">4291821414</a> ( <a href="#">0xFFCFFF66</a> )
YUV	<a href="#">223.2060, -59.7546, -14.2127</a>
Hunter-Lab	<a href="#">92.5984, -38.8871, 48.3292</a>

# Details

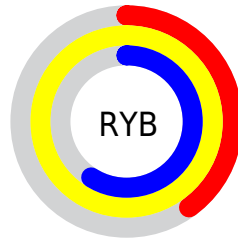
The XYZ color **63.8904, 85.7447, 25.7534** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **35.3804, 23.2082, 97.2226**, and the grayscale version is **70.6868, 74.3680, 80.9867**.

A 20% lighter version of the original color is **83.1716, 95.2486, 46.3490**, and **33.0246, 46.9521, 9.6076** is the 20% darker color. If you saturate the color by 10%, you get **60.6352, 84.1909, 19.9845**, and if you desaturate by 10%, it is **67.6481, 87.5126, 33.5777**.

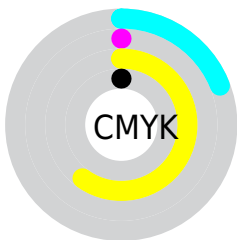
# Distribution



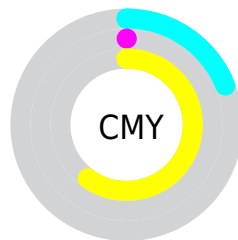
- Red (81%)
- Green (100%)
- Blue (40%)



- Red (40%)
- Yellow (100%)
- Blue (59%)



- Cyan (19%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)




- Cyan (19%)
- Magenta (0%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.8904, 85.7447, 25.7534 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 63.8904, 85.7447, 25.7534 by changing the saturation by 10% instead.





 63.8904, 85.7447,  
25.7534

 63.8904, 85.7447,  
25.7534


428.4022,  
514.0890, 295.1363


 46.8233, 64.4569,  
16.4151


 109.5277,  
141.4132, 53.8560


 33.1033, 47.0208,  
9.6609


 138.8286,  
176.5626, 73.4575

 22.3652, 33.0521,  
5.0720


 172.9381,  
217.1014, 97.3171

 14.2436, 22.1664,  
2.2301

 212.2215,  
263.4139, 125.8534

 8.3731, 13.9792,  
0.6917

257.0443,  
315.8845, 159.4849

 4.3884, 8.1062,  
0.0000

307.7718,

 1.9241, 4.1630,

374.8976, 198.6302

0.0000

364.7693,  
440.8377, 243.7078

■ 0.5908, 1.7651,  
0.0000

■ 0.0000, 0.4653,  
0.0000

■ 63.8904, 85.7447,  
25.7534

■ 63.8904, 85.7447,  
25.7534

■ 60.6352, 84.1909,  
19.9845

■ 67.6481, 87.5126,  
33.5777

■ 57.8433, 82.8353,  
16.0727

■ 71.9417, 89.5081,  
43.6241

■ 55.4691, 81.6595,  
13.7868

■ 76.8018, 91.7437,  
56.0461

■ 53.4389, 80.6338,  
12.7475

■ 82.2565, 94.2307,  
70.9827

■ 53.4385, 80.6336,  
12.7473

■ 88.3316, 96.9797,  
88.5621

95.0500, 100.0000,  
108.9000

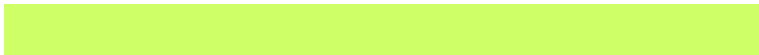
# Harmonies

## Analogous

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



82.0656, 85.7447, 20.1974



63.8904, 85.7447, 25.7534



52.3273, 85.7447, 46.9349

# Triad

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



63.8904, 85.7447, 25.7534



63.0598, 85.7447, 226.2732



127.1687, 85.7447, 94.9933

# Complementary

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



63.8904, 85.7447, 25.7534



35.3804, 23.2082, 97.2226

# 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.



119.8860, 85.7447, 163.2972



63.8904, 85.7447, 25.7534



80.9326, 85.7447, 256.0134

# Square

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



63.8904, 85.7447, 25.7534



51.9068, 85.7447, 159.2516



102.0749, 85.7447, 229.2133



120.6203, 85.7447, 48.7341



# Rectangle

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



63.8904, 85.7447, 25.7534



48.8157, 85.7447, 73.8648



102.0749, 85.7447, 229.2133



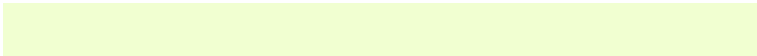
126.2397, 85.7447, 116.0183

# Sweetspot

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



63.8905, 85.7448, 25.7546



83.4201, 94.7588, 74.2801



54.2132, 43.3689, 18.0853



17.4944, 20.1184, 14.8787



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.



63.8905, 85.7448, 25.7546



60.0405, 83.9042, 19.0594



47.7689, 77.4338, 25.0001



18.9743, 20.7882, 19.1568



28.0839, 42.2158, 6.6683



2.8473, 4.1686, 0.6546



# Inverse Universe

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



35.3804, 23.2082, 97.2226



29.3823, 16.4448, 96.2333



53.6667, 32.6351, 98.0784



17.5392, 17.6542, 22.7331



11.2951, 4.7333, 49.7529

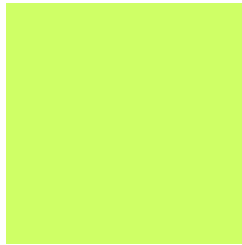


1.2068, 0.5161, 4.8493



# Previews

## White Background



This preview shows how the XYZ color 63.8904, 85.7447, 25.7534 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

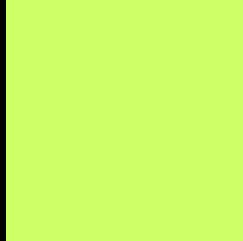
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.8904, 85.7447, 25.7534 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 63.8904, 85.7447, 25.7534

## Background



This preview shows how black text looks on a background with the XYZ color 63.8904, 85.7447, 25.7534.



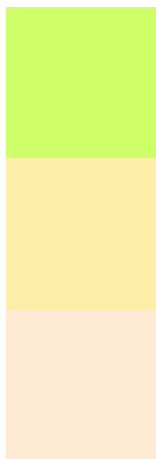
This preview shows how white text looks on a background with the XYZ color 63.8904, 85.7447,

25.7534.

# 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

63.8904, 85.7447, 25.7534

### Protanopia

78.7896, 85.1991, 48.8516

### Deuteranopia

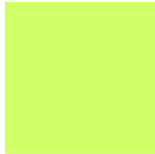
82.4207, 84.8088, 73.6537



## Tritanopia

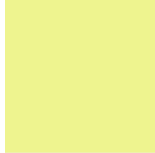
80.9114, 85.4470, 106.8362

# Trichromacy



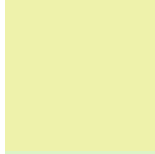
## Original Color

63.8904, 85.7447, 25.7534



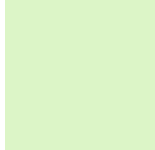
## Protanomaly

72.5685, 84.8617, 38.5418



## Deuteranomaly

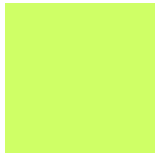
74.3627, 84.6217, 50.9424



## Tritanomaly

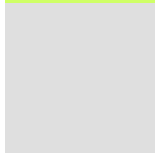
72.4764, 84.6440, 66.5508

# Monochromacy



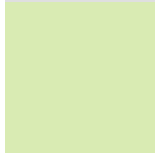
## Original Color

63.8904, 85.7447, 25.7534



## Achromatopsia

70.1384, 73.7910, 80.3584



## Achromatomaly

66.4603, 77.4230, 54.0891

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.8904, 85.7447, 25.7534 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(207, 255, 102)` looks like.

```
.text, #text, p{  
    color:rgb(207, 255, 102)  
}
```

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(207, 255, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(207, 255, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 63.8904, 85.7447, 25.7534 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(207, 255, 102) }
```



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

```
.border{ border-color:rgb(207, 255, 102) }
```

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

Here you see how a box with a 4 pixel rgb(207, 255, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(207, 255, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(207, 255, 102);  
box-shadow:4px 4px 4px 4px rgb(207, 255,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.8904, 85.7447, 25.7534 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(207, 255, 102) }
```

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

```
.background{ background-color: rgb(207,  
255, 102) }
```

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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