

# Converting Colors

XYZ(70.8706, 101.0587,  
30.9006)

Have a look what the booklet for  
XYZ(70.8706, 101.0587, 30.9006)  
contains.

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# Color

**XYZ(62.9864, 85.2243,  
28.1691)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CAFF6F
RGB	202, 255, 111
RGB Percent	79%, 100%, 44%
CMY	0.2078, 0.0000, 0.5647
CMYK	0.21, 0.00, 0.56, 0.00
HSL	82°, 100%, 72%
HSV	82°, 56%, 100%
XYZ	62.9864, 85.2243, 28.1691
YIQ	222.7370, 14.6360, -56.0200

# Conversions

## Conversions Part 2

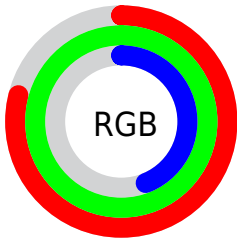
<b>Format</b>	<b>Color</b>
<b>RYB</b>	111, 255, 164
Decimal	13303663
CIELab	93.98, -38.13, 62.18
CIELCh	94, 72.942, 121.517
Yxy	85.2243, 0.3571, 0.4832
Android (android.graphics.Color)	4291493743 (0xFFCAFF6F)
YUV	222.7370, -55.0863, -18.1863
Hunter-Lab	92.3170, -39.7671, 46.5305

# Details

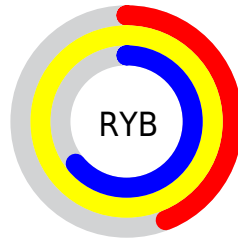
The XYZ color **62.9864, 85.2243, 28.1691** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **39.0456, 26.4827, 97.6615**, and the grayscale version is **70.3235, 73.9858, 80.5705**.

A 20% lighter version of the original color is **83.9751, 95.5700, 50.5801**, and **32.5607, 46.6837, 10.9092** is the 20% darker color. If you saturate the color by 10%, you get **59.3139, 83.4707, 21.6850**, and if you desaturate by 10%, it is **67.2144, 87.2178, 36.7730**.

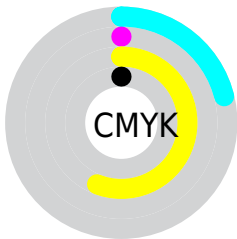
# Distribution



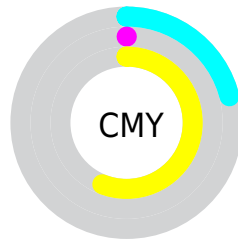
- Red (79%)
- Green (100%)
- Blue (44%)



- Red (44%)
- Yellow (100%)
- Blue (64%)



- Cyan (21%)
- Magenta (0%)
- Yellow (56%)
- Black (0%)




- Cyan (21%)
- Magenta (0%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 62.9864, 85.2243, 28.1691 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 62.9864, 85.2243, 28.1691 by changing the saturation by 10% instead.





 62.9864, 85.2243,  
28.1691


 62.9864, 85.2243,  
28.1691


425.1806,  
512.3700, 307.2114


 46.0888, 64.0267,  
18.2130


 108.2318,  
140.6865, 57.7807

 32.5208, 46.6723,  
10.9320


 137.3103,  
175.7199, 78.2732

 21.9171, 32.7767,  
5.9075


 171.1799,  
216.1341, 103.1150

 13.9123, 21.9554,  
2.7211

210.2059,  
262.3134, 132.7246

 8.1410, 13.8242,  
0.9540

254.7535,  
314.6423, 167.5204

 4.2378, 7.9985,  
0.0000

305.1883,

 1.8376, 4.0940,

373.5051, 207.9212

0.0000

361.8755,  
439.2862, 254.3453

■ 0.5401, 1.7263,  
0.0000

■ 0.0000, 0.4406,  
0.0000

■ 62.9864, 85.2243,  
28.1691

■ 62.9864, 85.2243,  
28.1691

■ 59.3139, 83.4707,  
21.6850

■ 67.2144, 87.2178,  
36.7730

■ 56.1586, 81.9416,  
17.1320


■ 72.0312, 89.4651,  
47.6564


■ 53.4766, 80.6190,  
14.2943

■ 77.4673, 91.9785,  
60.9678

■ 51.2137, 79.4810,  
12.9007

■ 83.5509, 94.7696,  
76.8423

 50.4868, 79.1119,  
12.6092

 90.3082, 97.8493,  
95.4048

95.0500, 100.0000,  
108.9000

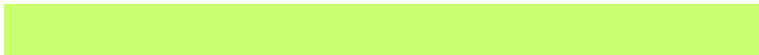
# Harmonies

## Analogous

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



80.0170, 85.2243, 21.6334



62.9864, 85.2243, 28.1691



52.3818, 85.2243, 50.5215

# Triad

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



62.9864, 85.2243, 28.1691



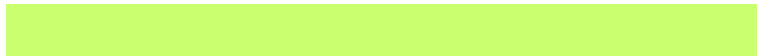
64.4478, 85.2243, 222.3324



124.4260, 85.2243, 89.9877

# Complementary

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



62.9864, 85.2243, 28.1691



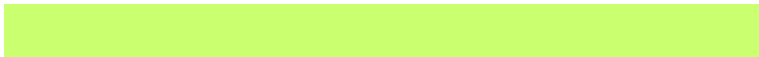
39.0456, 26.4827, 97.6615

# 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.



118.5145, 85.2243, 153.8049



62.9864, 85.2243, 28.1691



81.9974, 85.2243, 246.2856

# Square

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



62.9864, 85.2243, 28.1691



53.1258, 85.2243, 160.7874



102.1645, 85.2243, 217.2932

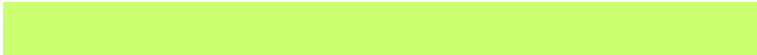


117.2429, 85.2243, 47.3167



# Rectangle

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



62.9864, 85.2243, 28.1691



49.3632, 85.2243, 77.8780



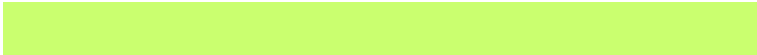
102.1645, 85.2243, 217.2932



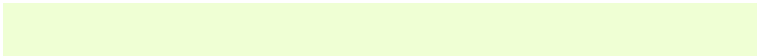
123.8996, 85.2243, 109.5042

# Sweetspot

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



62.9866, 85.2243, 28.1703



83.2111, 94.6143, 75.9328



57.3496, 48.8881, 21.4538



17.5391, 20.1271, 15.5309



0.0000, 0.0000, 0.0000

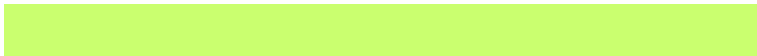


20.3446, 21.4041, 23.3091



# Same Dimension

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



62.9866, 85.2243, 28.1703



58.7983, 83.2225, 20.8676



47.8666, 77.4297, 27.4627



18.8751, 20.7370, 19.1522



26.5505, 41.4254, 6.5965



2.7056, 4.0955, 0.6479



# Inverse Universe

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



39.0456, 26.4827, 97.6615



32.7889, 19.2527, 96.5957



58.2608, 36.3885, 98.5607



17.6344, 17.7032, 22.7376



11.9857, 5.0894, 49.7852

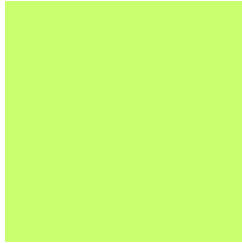


1.2824, 0.5550, 4.8528



# Previews

## White Background



This preview shows how the XYZ color 62.9864, 85.2243, 28.1691 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

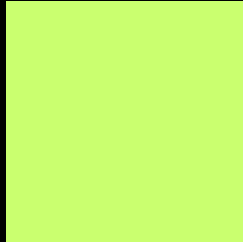
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 62.9864, 85.2243, 28.1691 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 62.9864, 85.2243, 28.1691**

## **Background**



This preview shows how black text looks on a background with the XYZ color 62.9864, 85.2243, 28.1691.



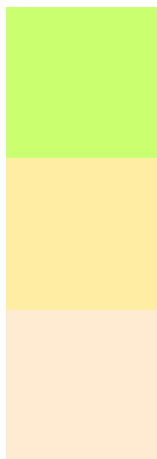
This preview shows how white text looks on a background with the XYZ color 62.9864, 85.2243,



# 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

62.9864, 85.2243, 28.1691

### Protanopia

78.1350, 84.4727, 46.8370

### Deuteranopia

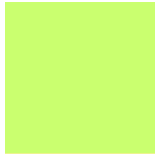
82.2957, 84.7588, 72.9954



## Tritanopia

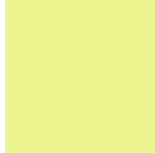
79.6570, 84.8003, 106.7775

# Trichromacy



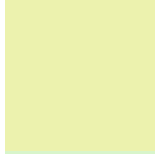
## Original Color

62.9864, 85.2243, 28.1691



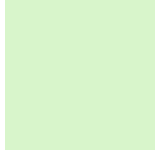
## Protanomaly

71.9768, 84.5479, 38.9113



## Deuteranomaly

73.9842, 84.3931, 52.4345



## Tritanomaly

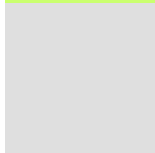
71.7508, 84.2155, 68.9735

# Monochromacy



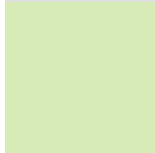
## Original Color

62.9864, 85.2243, 28.1691



## Achromatopsia

70.1384, 73.7910, 80.3584



## Achromatomaly

66.1762, 77.2411, 55.6771

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 62.9864, 85.2243, 28.1691 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(202, 255, 111)` looks like.

```
.text, #text, p{  
    color:rgb(202, 255, 111)  
}
```

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(202, 255, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 255, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 62.9864, 85.2243, 28.1691 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(202, 255, 111) }
```



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

```
.border{ border-color:rgb(202, 255, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 255, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 255, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 255, 111);  
box-shadow:4px 4px 4px 4px rgb(202, 255,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 62.9864, 85.2243, 28.1691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 255, 111) }
```

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

```
.background{ background-color: rgb(202,  
255, 111) }
```

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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