

# Converting Colors

XYZ(67.1547, 100.0000,  
12.8814)

Have a look what the booklet for  
XYZ(67.1547, 100.0000, 12.8814)  
contains.

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# Color

**XYZ(59.5794, 83.7994,  
13.0347)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8FF00
RGB	200, 255, 0
RGB Percent	78%, 100%, 0%
CMY	0.2157, 0.0000, 0.9998
CMYK	0.22, 0.00, 1.00, 0.00
HSL	73°, 100%, 50%
HSV	73°, 100%, 100%
XYZ	59.5794, 83.7994, 13.0347
YIQ	209.4850, 49.0750, -90.9650

# Conversions

## Conversions Part 2

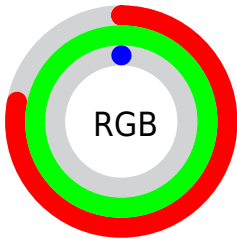
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 55
Decimal	13172480
CIELab	93.36, -43.48, 89.99
CIELCh	93, 99.941, 115.789
Yxy	83.7994, 0.3809, 0.5358
Android (android.graphics.Color)	4291362560 (0xFFC8FF00)
YUV	209.4850, -103.2761, -8.3183
Hunter-Lab	91.5420, -44.0232, 55.6371

# Details

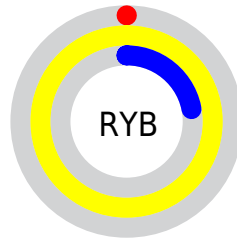
The XYZ color **59.5794, 83.7994, 13.0347** is a light color, and the websafe version is hex **CCFF00**. The color can be described as light saturated yellow. A complement of this color would be **19.6281, 8.0342, 95.1240**, and the grayscale version is **61.5561, 64.7619, 70.5257**.

A 20% lighter version of the original color is **79.0656, 93.6062, 24.7271**, and **31.0093, 45.9636, 7.2375** is the 20% darker color. If you saturate the color by 10%, you get **59.5770, 83.7981, 13.0346**, and if you desaturate by 10%, it is **61.2563, 84.6429, 14.0596**.

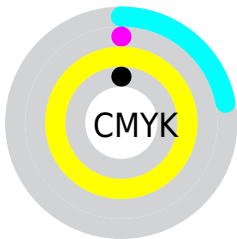
# Distribution



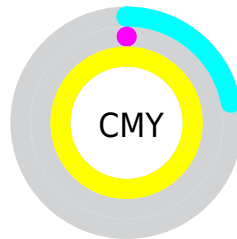
- Red (78%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (22%)



- Cyan (22%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (22%)
- Magenta (0%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.5794, 83.7994, 13.0347 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 59.5794, 83.7994, 13.0347 by changing the saturation by 10% instead.





 59.5794, 83.7994,  
13.0347


 59.5794, 83.7994,  
13.0347


412.9053,  
507.6469, 222.3556

 43.3279, 62.8498,  
7.3214


 103.3291,  
138.6945, 32.0582


 30.3381, 45.7197,  
3.5824


 131.5580,  
173.4089, 46.2055


 20.2447, 32.0247,  
1.3992


 164.5101,  
213.4803, 64.0013

 12.6823, 21.3804,  
0.1411

 202.5507,  
259.2931, 85.8640

 7.2857, 13.4023,  
0.0000

 246.0451,  
311.2318, 112.2123

 3.6893, 7.7062,  
0.0000

 295.3588,

 1.5279, 3.9075,

369.6807, 143.4646

0.0000

350.8571,  
435.0243, 180.0395

■ 0.3447, 1.6220,  
0.0000

■ 0.0000, 0.3723,  
0.0000

■ 59.5794, 83.7994,  
13.0347

■ 59.5794, 83.7994,  
13.0347

■ 59.5770, 83.7981,  
13.0346

■ 61.2563, 84.6429,  
14.0596

■ 63.2226, 85.6084,  
16.3283

■ 65.5507, 86.7248,  
20.2207

■ 68.2852, 88.0101,  
25.9691

71.4637, 89.4793,  
33.7679

75.1188, 91.1456,  
43.7874

79.2800, 93.0208,  
56.1799

83.9742, 95.1157,  
71.0843

89.2262, 97.4404,  
88.6288

# Harmonies

## Analogous

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



83.4271, 83.7994, 9.5580



59.5794, 83.7994, 13.0347



44.6706, 83.7994, 31.5644

# Triad

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



59.5794, 83.7994, 13.0347



54.4260, 83.7994, 271.4993



141.6073, 83.7994, 102.3173

# Complementary

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



59.5794, 83.7994, 13.0347



19.6281, 8.0342, 95.1240

# 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.



129.3175, 83.7994, 199.5413



59.5794, 83.7994, 13.0347



75.9864, 83.7994, 325.8994

# Square

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



59.5794, 83.7994, 13.0347



42.1882, 83.7994, 170.0376



103.7840, 83.7994, 294.1417



134.5247, 83.7994, 41.5593



# Rectangle

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



59.5794, 83.7994, 13.0347



39.9411, 83.7994, 60.0590



103.7840, 83.7994, 294.1417



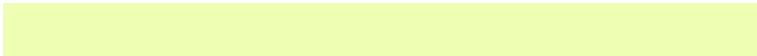
139.5429, 83.7994, 131.6969

# Sweetspot

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



59.5794, 83.7993, 13.0358



79.2733, 93.0178, 56.1593



42.4254, 23.6304, 2.3262



16.5787, 19.7348, 10.8385



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.



59.5794, 83.7993, 13.0358



59.5770, 83.7981, 13.0346



38.7828, 73.0783, 12.0626



19.1552, 20.8814, 19.1653



31.2618, 43.8541, 6.8170



3.1346, 4.3167, 0.6680



# Inverse Universe

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



19.6281, 8.0342, 95.1240



19.6261, 8.0325, 95.1238



36.5281, 16.7464, 95.9149



17.3693, 17.5666, 22.7252



10.3562, 4.2493, 49.7090

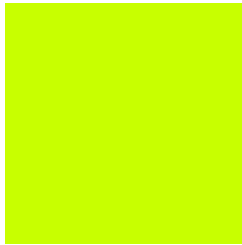


1.0956, 0.4587, 4.8441



# Previews

## White Background



This preview shows how the XYZ color 59.5794, 83.7994, 13.0347 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

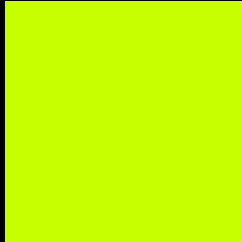
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 59.5794, 83.7994, 13.0347 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 59.5794, 83.7994, 13.0347**

## **Background**



This preview shows how black text looks on a background with the XYZ color 59.5794, 83.7994, 13.0347.



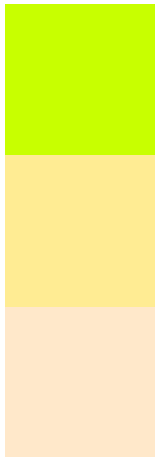
This preview shows how white text looks on a background with the XYZ color 59.5794, 83.7994,



# 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

59.5794, 83.7994, 13.0347

### Protanopia

76.5019, 83.3575, 39.6613

### Deuteranopia

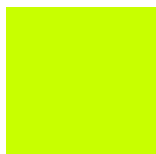
80.7573, 83.2375, 67.6872



## Tritanopia

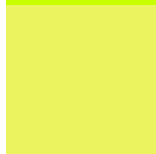
78.4584, 83.3180, 106.5545

# Trichromacy



## Original Color

59.5794, 83.7994, 13.0347



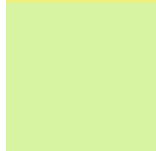
## Protanomaly

68.3319, 82.5715, 22.9261



## Deuteranomaly

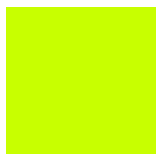
69.3835, 81.5673, 32.8560



## Tritanomaly

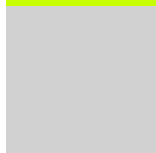
66.6038, 81.6061, 46.4236

# Monochromacy



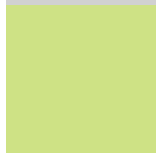
## Original Color

59.5794, 83.7994, 13.0347



## Achromatopsia

60.6036, 63.7597, 69.4343



## Achromatomaly

56.8836, 69.2080, 32.5507

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.5794, 83.7994, 13.0347 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(200, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(200, 255, 0)  
}
```

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(200, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 255, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 59.5794, 83.7994, 13.0347 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(200, 255, 0) }
```



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

```
.border{ border-color:rgb(200, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(200, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 59.5794, 83.7994, 13.0347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 255, 0) }
```

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

```
.background{ background-color: rgb(200,  
255, 0) }
```

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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