

# Converting Colors

XYZ(58.5683, 83.2395, 14.7306)

Have a look what the booklet for  
XYZ(58.5683, 83.2395, 14.7306)  
contains.

<b>XYZ(58.5996, 83.2557, 14.7317)</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(58.5996, 83.2557,  
14.7317)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C3FF25
RGB	195, 255, 37
RGB Percent	76%, 100%, 15%
CMY	0.2353, 0.0000, 0.8548
CMYK	0.24, 0.00, 0.85, 0.00
HSL	77°, 100%, 57%
HSV	77°, 85%, 100%
XYZ	58.5996, 83.2557, 14.7317
YIQ	212.2080, 34.2180, -80.5180

# Conversions

## Conversions Part 2

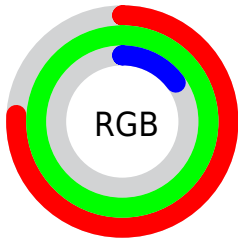
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">37, 255, 97</a>
Decimal	<a href="#">12844837</a>
CIELab	<a href="#">93.13, -44.82, 85.47</a>
CIELCh	<a href="#">93, 96.512, 117.669</a>
Yxy	<a href="#">83.2557, 0.3742, 0.5317</a>
Android (android.graphics.Color)	<a href="#">4291034917 (0xFFC3FF25)</a>
YUV	<a href="#">212.2080, -86.3775, -15.0914</a>
Hunter-Lab	<a href="#">91.2446, -45.0407, 54.2986</a>

# Details

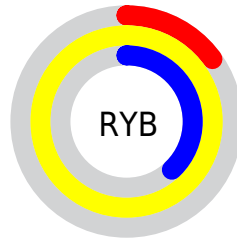
The XYZ color **58.5996, 83.2557, 14.7317** is a light color, and the websafe version is hex **CCFF33**. The color can be described as light washed yellow. A complement of this color would be **23.6433, 11.0862, 95.5015**, and the grayscale version is **63.2593, 66.5537, 72.4770**.

A 20% lighter version of the original color is **79.6538, 93.8415, 27.8249**, and **30.1858, 45.5391, 7.1990** is the 20% darker color. If you saturate the color by 10%, you get **56.5576, 82.2342, 13.2243**, and if you desaturate by 10%, it is **61.0057, 84.4326, 17.7135**.

# Distribution



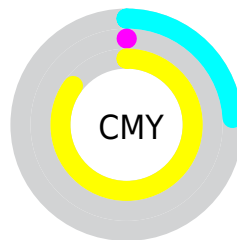
- Red (76%)
- Green (100%)
- Blue (15%)



- Red (15%)
- Yellow (100%)
- Blue (38%)



- Cyan (24%)
- Magenta (0%)
- Yellow (85%)
- Black (0%)




- Cyan (24%)
- Magenta (0%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.5996, 83.2557, 14.7317 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 58.5996, 83.2557, 14.7317 by changing the saturation by 10% instead.





 58.5996, 83.2557,  
14.7317

 58.5996, 83.2557,  
14.7317


409.3344,  
505.8383, 233.3210


 42.5360, 62.4011,  
8.4868


 101.9135,  
137.9335, 35.1174


 29.7142, 45.3569,  
4.3158


 129.8944,  
172.5256, 50.0953


 19.7687, 31.7386,  
1.8001

 162.5786,  
212.4655, 68.8213

 12.3343, 21.1619,  
0.4280

 200.3313,  
258.1378, 91.7138

 7.0456, 13.2424,  
0.0000

 243.5178,  
309.9269, 119.1916

 3.5372, 7.5957,  
0.0000

292.5037,

 1.4438, 3.8373,

368.2170, 151.6730

0.0000

347.6541,  
433.3927, 189.5766

■ 0.2871, 1.5830,  
0.0000

■ 0.0000, 0.3461,  
0.0000

■ 58.5996, 83.2557,  
14.7317

■ 58.5996, 83.2557,  
14.7317

■ 56.5576, 82.2342,  
13.2243

■ 61.0057, 84.4326,  
17.7135

■ 55.7220, 81.8108,  
12.8542

■ 63.8270, 85.7855,  
22.4298

■ 67.1051, 87.3313,  
29.0948

■ 70.8757, 89.0843,  
37.8909

75.1706, 91.0574,  
48.9798

80.0185, 93.2622,  
62.5072

85.4458, 95.7094,  
78.6071

91.4771, 98.4089,  
97.4035

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.



81.1293, 83.2557, 10.5007



58.5996, 83.2557, 14.7317



44.6972, 83.2557, 34.6412

# Triad

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



58.5996, 83.2557, 14.7317



55.8361, 83.2557, 266.9976



138.4606, 83.2557, 96.4431

# Complementary

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



58.5996, 83.2557, 14.7317



23.6433, 11.0862, 95.5015

# 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.



127.8384, 83.2557, 187.5939



58.5996, 83.2557, 14.7317



77.1678, 83.2557, 313.6791

# Square

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



58.5996, 83.2557, 14.7317



43.3573, 83.2557, 172.0866



103.9748, 83.2557, 278.8237



130.5849, 83.2557, 40.0771



# Rectangle

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



58.5996, 83.2557, 14.7317



40.4475, 83.2557, 64.0051



103.9748, 83.2557, 278.8237



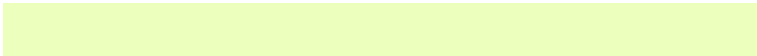
136.8935, 83.2557, 123.8240

# Sweetspot

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



58.5996, 83.2557, 14.7328



79.7547, 93.1428, 61.7484



45.6793, 29.6040, 5.0580



16.6998, 19.7681, 12.1625



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.



58.5996, 83.2557, 14.7328



55.7220, 81.8108, 12.8542



40.1071, 73.7224, 13.8674



19.0451, 20.8247, 19.1601



29.2675, 42.8261, 6.7237



2.9552, 4.2242, 0.6596



# Inverse Universe

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



23.6433, 11.0862, 95.5015



20.5894, 8.5291, 95.1688



43.6513, 21.4007, 96.4378



17.4722, 17.6196, 22.7300



10.8809, 4.5198, 49.7335

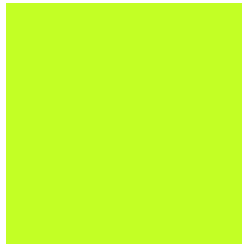


1.1594, 0.4916, 4.8471



# Previews

## White Background



This preview shows how the XYZ color 58.5996, 83.2557, 14.7317 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

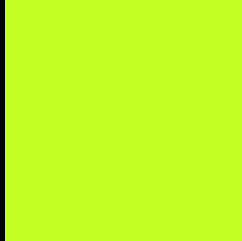
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 58.5996, 83.2557, 14.7317 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

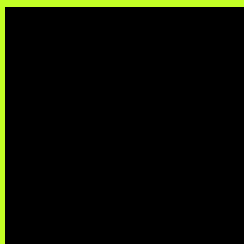
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 58.5996, 83.2557, 14.7317**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.5996, 83.2557, 14.7317.



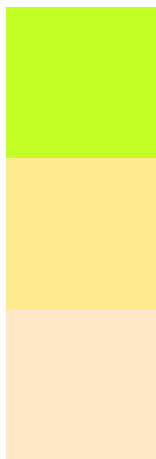
This preview shows how white text looks on a background with the XYZ color 58.5996, 83.2557,



# 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

58.5996, 83.2557, 14.7317

### Protanopia

75.8308, 82.6297, 37.5436

### Deuteranopia

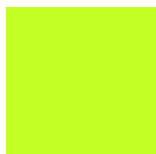
80.2412, 82.5820, 66.3543



## **Tritanopia**

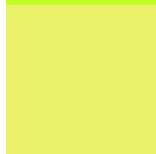
77.2476, 82.6938, 106.4979

# Trichromacy



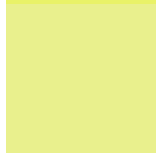
## Original Color

58.5996, 83.2557, 14.7317



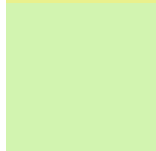
## Protanomaly

67.8551, 81.8274, 25.3146



## Deuteranomaly

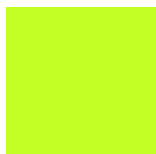
69.5721, 81.5669, 37.2765



## Tritanomaly

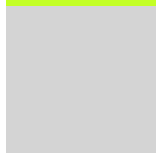
66.7655, 81.5376, 53.2937

# Monochromacy



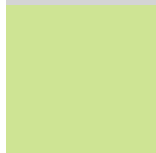
## Original Color

58.5996, 83.2557, 14.7317



## Achromatopsia

62.5785, 65.8375, 71.6970



## Achromatomaly

58.5423, 70.7467, 38.5870

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.5996, 83.2557, 14.7317 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(195, 255, 37)` looks like.

```
.text, #text, p{  
    color:rgb(195, 255, 37)  
}
```

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(195, 255, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(195, 255, 37) }
```

## Border

The CSS property to change the border of an element to XYZ 58.5996, 83.2557, 14.7317 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(195, 255, 37) }
```



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

```
.border{ border-color:rgb(195, 255, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(195, 255, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(195, 255, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(195, 255, 37);  
box-shadow:4px 4px 4px 4px rgb(195, 255,  
37) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.5996, 83.2557, 14.7317 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(195, 255, 37) }
```

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

```
.background{ background-color: rgb(195,  
255, 37) }
```

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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