

# Converting Colors

XYZ(33.9635, 33.5996, 99.3030)

Have a look what the booklet for  
XYZ(33.9635, 33.5996, 99.3030)  
contains.

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# Color

**XYZ(33.9330, 33.5585,  
99.2967)**

# Conversions

## Conversions Part 1

Format	Color
Hex	549EFF
RGB	84, 158, 255
RGB Percent	33%, 62%, 100%
CMY	0.6705, 0.3804, 0.0000
CMYK	0.67, 0.38, 0.00, 0.00
HSL	214°, 100%, 66%
HSV	214°, 67%, 100%
XYZ	33.9330, 33.5585, 99.2967
YIQ	146.9320, -75.2410, 14.4790

# Conversions

## Conversions Part 2

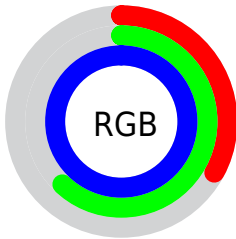
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	84, 136, 255
Decimal	5545727
CIE Lab	64.61, 7.24, -54.97
CIE LCh	65, 55.441, 277.507
Yxy	33.5585, 0.2034, 0.2012
Android (android.graphics.Color)	4283735807 (0xFF549EFF)
YUV	146.9320, 53.2775, -55.1914
Hunter-Lab	57.9297, 3.1815, -61.0776

# Details

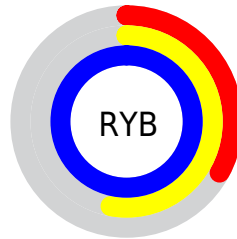
The XYZ color **33.9330, 33.5585, 99.2967** is a light color, and the websafe version is hex **3399FF**. The color can be described as light muted azure. A complement of this color would be **59.3663, 54.9516, 15.8674**, and the grayscale version is **27.5159, 28.9489, 31.5253**.

A 20% lighter version of the original color is **53.9879, 60.6965, 103.4779**, and **15.4507, 14.5926, 55.4284** is the 20% darker color. If you saturate the color by 10%, you get **29.7279, 27.9411, 98.4341**, and if you desaturate by 10%, it is **39.2612, 40.1868, 100.2953**.

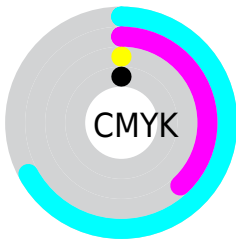
# Distribution



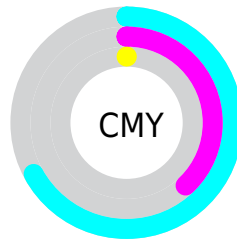
- Red (33%)
- Green (62%)
- Blue (100%)



- Red (33%)
- Yellow (53%)
- Blue (100%)



- Cyan (67%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)



- Cyan (67%)
- Magenta (38%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9330, 33.5585, 99.2967 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 33.9330, 33.5585, 99.2967 by changing the saturation by 10% instead.



■ 33.9330, 33.5585,  
99.2967

■ 33.9330, 33.5585,  
99.2967

311.4244,  
318.1589, 579.1629

■ 23.0048, 22.5546,  
75.0997

■ 65.1744, 65.2465,  
162.2338

■ 14.7177, 14.2650,  
55.1924

■ 86.2184, 86.6994,  
201.8110

■ 8.7066, 8.3052,  
39.1561

■ 111.3649,  
112.4042, 247.3519

■ 4.6059, 4.2909,  
26.5724

■ 140.9795,  
142.7451, 299.2753

■ 2.0503, 1.8376,  
17.0228

175.4273,  
178.1067, 357.9995

■ 0.6620, 0.5104,  
10.0886

215.0738,

■ 0.0000, 0.0000,

218.8732, 423.9431

5.3514

260.2844,  
265.4292, 497.5248

■ 0.0000, 0.0000,  
2.3925

■ 0.0000, 0.0000,  
0.7824

■ 33.9330, 33.5585,  
99.2967

■ 33.9330, 33.5585,  
99.2967

■ 29.7279, 27.9411,  
98.4341

■ 39.2612, 40.1868,  
100.2953

■ 26.5371, 23.2626,  
97.6992

■ 45.7994, 47.8838,  
101.4364

■ 24.2298, 19.4400,  
97.0830

■ 53.6291, 56.7055,  
102.7264

■ 23.6632, 18.4463,  
96.9211

■ 62.8232, 66.7024,  
104.1714

■ 73.4490, 77.9215,  
105.7769

■ 85.5689, 90.4071,  
107.5481

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.



26.4045, 33.5585, 93.6590



33.9330, 33.5585, 99.2967



42.1249, 33.5585, 83.3613

# Triad

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



33.9330, 33.5585, 99.2967



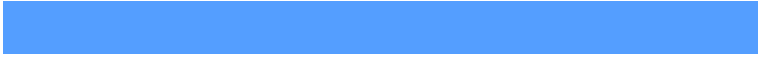
45.6060, 33.5585, 15.8586



19.7671, 33.5585, 22.2340

# Complementary

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



33.9330, 33.5585, 99.2967



59.3663, 54.9516, 15.8674

# 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.



23.4740, 33.5585, 11.6706



33.9330, 33.5585, 99.2967



38.1013, 33.5585, 9.1996

# Square

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



33.9330, 33.5585, 99.2967



49.5545, 33.5585, 31.1192



29.9429, 33.5585, 8.0722

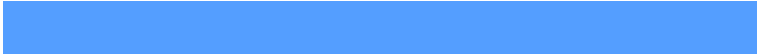


19.0274, 33.5585, 42.5553



# Rectangle

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



33.9330, 33.5585, 99.2967



46.5853, 33.5585, 65.4225



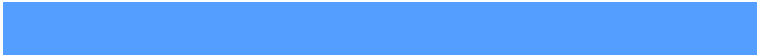
29.9429, 33.5585, 8.0722



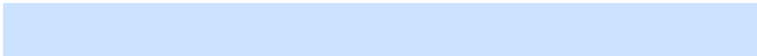
20.6737, 33.5585, 17.7237

# Sweetspot

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



33.9342, 33.5595, 99.2969



70.1669, 74.4875, 105.2871



47.7478, 76.7376, 55.9600



14.3737, 15.2637, 22.4386



0.0000, 0.0000, 0.0000

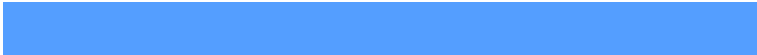


20.3446, 21.4041, 23.3091



# Same Dimension

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



33.9342, 33.5595, 99.2969



28.6878, 26.4689, 98.2047



25.9831, 16.0172, 96.3299



17.6495, 18.6706, 22.9235



12.5063, 9.9222, 50.6906



1.3238, 1.1783, 4.9709



# Inverse Universe

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



50.5828, 30.0709, 35.4867



47.1042, 25.4998, 26.9710



74.5305, 91.3220, 22.0884



18.3357, 18.1176, 20.3851



23.1008, 11.7296, 9.1813



2.3028, 1.1635, 1.1760



# Previews

## White Background



This preview shows how the XYZ color 33.9330, 33.5585, 99.2967 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

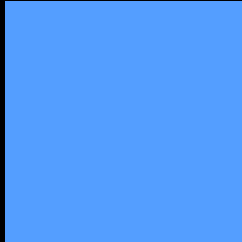
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.9330, 33.5585, 99.2967 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

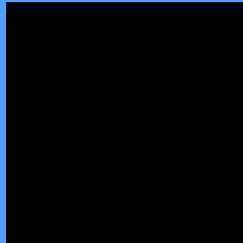
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

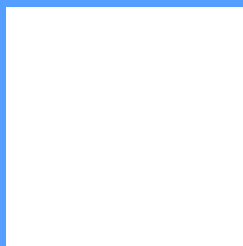
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.9330, 33.5585, 99.2967**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9330, 33.5585, 99.2967.



This preview shows how white text looks on a background with the XYZ color 33.9330, 33.5585,



# 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

33.9330, 33.5585, 99.2967

### Protanopia

36.1178, 33.5361, 95.0120

### Deuteranopia

34.6212, 33.6611, 99.2803



## Tritanopia

24.3784, 33.4435, 51.6247

# Trichromacy



## Original Color

33.9330, 33.5585, 99.2967

## Protanomaly

35.2359, 33.5351, 96.7113

## Deuteranomaly

34.3234, 33.5076, 99.2663

## Tritanomaly

27.0979, 33.1249, 66.5935

# Monochromacy



## Original Color

33.9330, 33.5585, 99.2967

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

28.2417, 29.9635, 50.7494

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9330, 33.5585, 99.2967 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(84, 158, 255)` looks like.

```
.text, #text, p{  
    color:rgb(84, 158, 255)  
}
```

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(84, 158, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(84, 158, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9330, 33.5585, 99.2967 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(84, 158, 255) }
```



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

```
.border{ border-color:rgb(84, 158, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(84, 158, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(84, 158, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(84, 158, 255);  
box-shadow:4px 4px 4px 4px rgb(84, 158,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9330, 33.5585, 99.2967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(84, 158, 255) }
```

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

```
.background{ background-color: rgb(84, 158,  
255) }
```

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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