

# Converting Colors

XYZ(31.2420, 31.5869, 95.0901)

Have a look what the booklet for  
XYZ(31.2420, 31.5869, 95.0901)  
contains.

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# Color

**XYZ(31.1566, 31.4686,  
94.8744)**

# Conversions

## Conversions Part 1

Format	Color
Hex	419BFA
RGB	65, 155, 250
RGB Percent	25%, 61%, 98%
CMY	0.7450, 0.3922, 0.0196
CMYK	0.74, 0.38, 0.00, 0.02
HSL	211°, 95%, 62%
HSV	211°, 74%, 98%
XYZ	31.1566, 31.4686, 94.8744
YIQ	138.9200, -84.1350, 10.4650

# Conversions

## Conversions Part 2

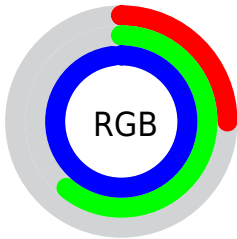
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	65, 126, 250
Decimal	4299770
CIE Lab	62.90, 4.66, -54.99
CIE LCh	63, 55.187, 274.845
Yxy	31.4686, 0.1978, 0.1998
Android (android.graphics.Color)	4282489850 (0xFF419BFA)
YUV	138.9200, 54.7624, -64.8278
Hunter-Lab	56.0969, 0.9706, -61.0070

# Details

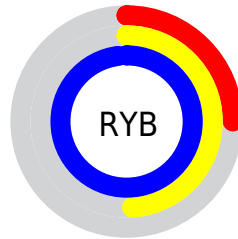
The XYZ color **31.1566, 31.4686, 94.8744** is a light color, and the websafe version is hex **3399FF**. The color can be described as light washed azure. A complement of this color would be **52.9521, 45.8519, 11.0624**, and the grayscale version is **24.3310, 25.5981, 27.8763**.

A 20% lighter version of the original color is **50.8421, 57.9718, 103.1178**, and **14.6772, 13.9534, 52.3718** is the 20% darker color. If you saturate the color by 10%, you get **27.8283, 26.7480, 94.1394**, and if you desaturate by 10%, it is **35.4463, 37.0227, 95.7211**.

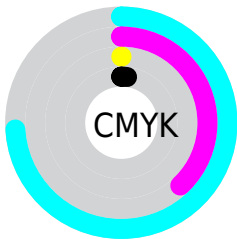
# Distribution



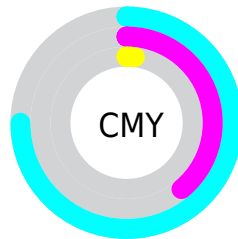
- Red (25%)
- Green (61%)
- Blue (98%)



- Red (25%)
- Yellow (49%)
- Blue (98%)



- Cyan (74%)
- Magenta (38%)
- Yellow (0%)
- Black (2%)



- Cyan (75%)
- Magenta (39%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1566, 31.4686, 94.8744 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 31.1566, 31.4686, 94.8744 by changing the saturation by 10% instead.



■ 31.1566, 31.4686,  
94.8744

■ 31.1566, 31.4686,  
94.8744

299.0731,  
308.6914, 564.7369

■ 20.8705, 20.9559,  
71.4341

■ 60.8607, 61.9771,  
156.0852

■ 13.1413, 13.0918,  
52.2125

■ 81.0095, 82.7417,  
194.6927

■ 7.6036, 7.4918,  
36.7911

■ 105.1765,  
107.6924, 239.1931

■ 3.8920, 3.7715,  
24.7513

■ 133.7271,  
137.2136, 290.0050

■ 1.6412, 1.5466,  
15.6745

167.0268,  
171.6897, 347.5467

■ 0.4191, 0.3212,  
9.1423

205.4407,

■ 0.0000, 0.0000,

211.5051, 412.2369

4.7360

249.3344,  
257.0442, 484.4941

■ 0.0000, 0.0000,  
2.0372

■ 0.0000, 0.0000,  
0.5780

■ 31.1566, 31.4686,  
94.8744

■ 31.1566, 31.4686,  
94.8744

■ 27.8283, 26.7480,  
94.1394

■ 35.4463, 37.0227,  
95.7211

■ 25.3457, 22.7899,  
93.5062

■ 40.7860, 43.4652,  
96.6831

■ 24.1677, 20.7267,  
93.1701

■ 47.2575, 50.8479,  
97.7671

■ 54.9324, 59.2172,  
98.9780

■ 63.8764, 68.6158,  
100.3207

■ 74.1498, 79.0833,  
101.7997

■ 85.8090, 90.6572,  
103.4192

■ 94.2555, 99.6822,  
104.7160

# Harmonies

## Analogous

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



24.1378, 31.4686, 87.5659



31.1566, 31.4686, 94.8744



39.0243, 31.4686, 81.1464

# Triad

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



31.1566, 31.4686, 94.8744



43.5219, 31.4686, 15.5341



18.5714, 31.4686, 19.4193

# Complementary

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



31.1566, 31.4686, 94.8744



52.9521, 45.8519, 11.0624

# 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.



22.3382, 31.4686, 10.1703



31.1566, 31.4686, 94.8744



36.5360, 31.4686, 8.6823

# Square

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



31.1566, 31.4686, 94.8744



46.8908, 31.4686, 30.8614



28.6970, 31.4686, 7.2457



17.6209, 31.4686, 37.9078



# Rectangle

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



31.1566, 31.4686, 94.8744



43.4638, 31.4686, 64.3200



28.6970, 31.4686, 7.2457



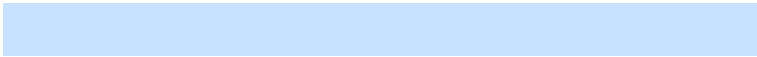
19.5149, 31.4686, 15.4251

# Sweetspot

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



31.1579, 31.4696, 94.8752



68.8248, 73.8446, 105.2337



42.4959, 71.9477, 43.7732



14.1429, 15.1985, 22.4381



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.



31.1579, 31.4696, 94.8752



27.6836, 25.7742, 98.1236



21.3273, 11.8085, 91.5984



16.9800, 18.0369, 21.9718



12.9621, 11.2798, 49.4676



1.3062, 1.2561, 4.6168



# Inverse Universe

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



47.2322, 26.4729, 33.6313



46.2766, 23.9410, 26.3983



74.5650, 89.0777, 18.2667



17.5965, 17.3659, 19.7307



22.8347, 11.5496, 11.1039



2.1682, 1.0910, 1.3093



# Previews

## White Background



This preview shows how the XYZ color 31.1566, 31.4686, 94.8744 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

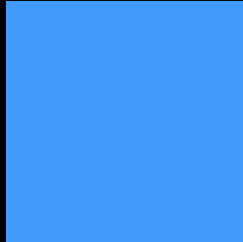
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.1566, 31.4686, 94.8744 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

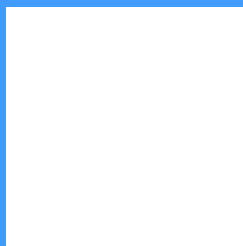
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 31.1566, 31.4686, 94.8744

## Background



This preview shows how black text looks on a background with the XYZ color 31.1566, 31.4686, 94.8744.



This preview shows how white text looks on a background with the XYZ color 31.1566, 31.4686,



# 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

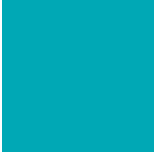
31.1566, 31.4686, 94.8744

### Protanopia

33.8585, 31.2889, 89.8428

### Deuteranopia

32.4786, 31.3999, 95.6158



## **Tritanopia**

22.3431, 31.3415, 48.5880

# Trichromacy



## Original Color

31.1566, 31.4686, 94.8744

## Protanomaly

32.5250, 31.2738, 91.5110

## Deuteranomaly

31.9457, 31.3672, 95.6375

## Tritanomaly

24.6145, 30.8448, 63.0488

# Monochromacy



## Original Color

31.1566, 31.4686, 94.8744

## Achromatopsia

24.5403, 25.8183, 28.1161

## Achromatomaly

24.9442, 26.9502, 46.5350

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1566, 31.4686, 94.8744 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(65, 155, 250)` looks like.

```
.text, #text, p{  
    color:rgb(65, 155, 250)  
}
```

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(65, 155, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 155, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1566, 31.4686, 94.8744 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(65, 155, 250) }
```



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

```
.border{ border-color:rgb(65, 155, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 155, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 155, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 155, 250);  
box-shadow:4px 4px 4px 4px rgb(65, 155,  
250) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1566, 31.4686, 94.8744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 155, 250) }
```

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

```
.background{ background-color: rgb(65, 155,  
250) }
```

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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