

# Converting Colors

XYZ(29.8497, 26.3972, 97.9581)

Have a look what the booklet for  
XYZ(29.8497, 26.3972, 97.9581)  
contains.

<b>XYZ(29.8347, 26.3648, 98.1242)</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(29.8347, 26.3648,  
98.1242)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4C88FF
RGB	76, 136, 255
RGB Percent	30%, 53%, 100%
CMY	0.7019, 0.4667, 0.0000
CMYK	0.70, 0.47, 0.00, 0.00
HSL	220°, 100%, 65%
HSV	220°, 70%, 100%
XYZ	29.8347, 26.3648, 98.1242
YIQ	131.6260, -73.9590, 24.2890

# Conversions

## Conversions Part 2

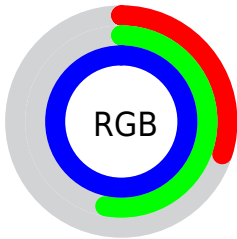
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	76, 121, 255
Decimal	5015807
CIE Lab	58.38, 19.20, -64.94
CIE LCh	58, 67.716, 286.467
Yxy	26.3648, 0.1933, 0.1708
Android (android.graphics.Color)	4283205887 (0xFF4C88FF)
YUV	131.6260, 60.8234, -48.7840
Hunter-Lab	51.3467, 13.8598, -77.3614

# Details

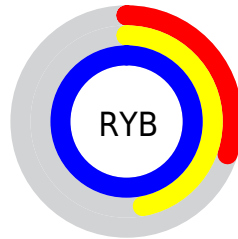
The XYZ color **29.8347, 26.3648, 98.1242** is a light color, and the websafe version is hex **6699FF**. The color can be described as light washed azure. A complement of this color would be **62.0627, 60.8176, 15.3077**, and the grayscale version is **21.6068, 22.7320, 24.7551**.

A 20% lighter version of the original color is **47.5753, 49.4548, 101.6460**, and **13.4862, 10.8476, 54.2063** is the 20% darker color. If you saturate the color by 10%, you get **25.9932, 21.1161, 97.3136**, and if you desaturate by 10%, it is **34.8582, 32.7839, 99.0984**.

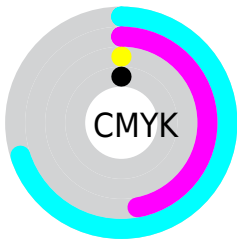
# Distribution



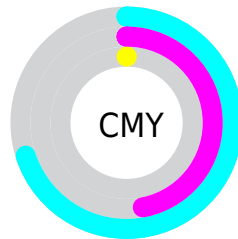
- Red (30%)
- Green (53%)
- Blue (100%)



- Red (30%)
- Yellow (47%)
- Blue (100%)



- Cyan (70%)
- Magenta (47%)
- Yellow (0%)
- Black (0%)



- Cyan (70%)
- Magenta (47%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.8347, 26.3648, 98.1242 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 29.8347, 26.3648, 98.1242 by changing the saturation by 10% instead.



■ 29.8347, 26.3648,  
98.1242

■ 29.8347, 26.3648,  
98.1242

293.0569,  
284.5683, 575.3570

■ 19.8606, 17.0967,  
74.1268

■ 58.7891, 53.8629,  
160.6063

■ 12.4014, 10.3035,  
54.4004

■ 78.5001, 72.8617,  
199.9281

■ 7.0918, 5.6006,  
38.5265

■ 102.1875, 95.8729,  
245.1951

■ 3.5664, 2.6038,  
26.0866

■ 130.2165,  
123.2808, 296.8258

■ 1.4599, 0.9286,  
16.6621

162.9526,  
155.4700, 355.2389

■ 0.2983, 0.0000,  
9.8345

200.7611,

■ 0.0000, 0.0000,

192.8247, 420.8527

5.1852

244.0074,  
235.7293, 494.0859

■ 0.0000, 0.0000,  
2.2957

■ 0.0000, 0.0000,  
0.7288

■ 29.8347, 26.3648,  
98.1242

■ 29.8347, 26.3648,  
98.1242

■ 25.9932, 21.1161,  
97.3136

■ 34.8582, 32.7839,  
99.0984

■ 23.2118, 16.9480,  
96.6556

■ 41.1618, 40.4479,  
100.2455

■ 21.3351, 13.7903,  
96.1450

■ 48.8360, 49.4269,  
101.5742

■ 57.9620, 59.7844,  
103.0924

■ 68.6139, 71.5795,  
104.8076

■ 80.8609, 84.8676,  
106.7270

94.7677, 99.7012,  
108.8572

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.



21.5241, 26.3648, 99.4982



29.8347, 26.3648, 98.1242



38.4229, 26.3648, 72.7996

# Triad

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



29.8347, 26.3648, 98.1242



37.6634, 26.3648, 6.7491



12.5747, 26.3648, 19.3265

# Complementary

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



29.8347, 26.3648, 98.1242



62.0627, 60.8176, 15.3077

# 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.



15.2203, 26.3648, 7.3960



29.8347, 26.3648, 98.1242



28.9611, 26.3648, 3.3082

# Square

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



29.8347, 26.3648, 98.1242



43.5781, 26.3648, 17.6497



20.8221, 26.3648, 3.4530



12.7081, 26.3648, 43.6227



# Rectangle

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



29.8347, 26.3648, 98.1242



42.6174, 26.3648, 50.9601



20.8221, 26.3648, 3.4530



13.1384, 26.3648, 14.1092

# Sweetspot

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



29.8358, 26.3655, 98.1243



67.6939, 70.5706, 104.6614



48.2953, 76.8785, 62.3689



13.8338, 14.3835, 22.2971



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.



29.8358, 26.3655, 98.1243



24.8159, 19.4062, 97.0456



26.2129, 15.2660, 96.1728



17.5004, 18.3725, 22.8738



11.2704, 7.4504, 50.2786



1.1933, 0.9172, 4.9274



# Inverse Universe

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



48.2693, 28.2082, 26.1935



44.9836, 24.0151, 17.7664



69.1081, 88.5608, 20.2914



18.2605, 18.0875, 19.9889



22.4770, 11.4801, 5.8963



2.2369, 1.1371, 0.8290



# Previews

## White Background



This preview shows how the XYZ color 29.8347, 26.3648, 98.1242 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

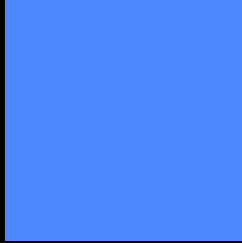
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.8347, 26.3648, 98.1242 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 × Fail

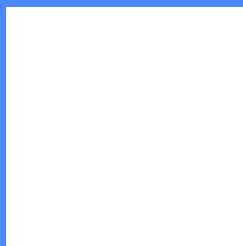
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.8347, 26.3648, 98.1242**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.8347, 26.3648, 98.1242.



This preview shows how white text looks on a background with the XYZ color 29.8347, 26.3648,



# 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

29.8347, 26.3648, 98.1242

### Protanopia

29.8616, 26.1892, 97.2471

### Deuteranopia

27.0856, 26.3110, 94.9178



## Tritanopia

18.6964, 26.2327, 40.6372

# Trichromacy



## Original Color

29.8347, 26.3648, 98.1242

## Protanomaly

29.7778, 26.1460, 97.2431

## Deuteranomaly

27.4277, 26.0313, 95.6744

## Tritanomaly

21.3776, 25.5502, 57.8378

# Monochromacy



## Original Color

29.8347, 26.3648, 98.1242

## Achromatopsia

21.9318, 23.0740, 25.1276

## Achromatomaly

23.0054, 23.3941, 44.8980

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.8347, 26.3648, 98.1242 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(76, 136, 255)` looks like.

```
.text, #text, p{  
    color:rgb(76, 136, 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(76, 136, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 136, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 29.8347, 26.3648, 98.1242 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(76, 136, 255) }
```



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

```
.border{ border-color:rgb(76, 136, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 136, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 136, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 136, 255);  
box-shadow:4px 4px 4px 4px rgb(76, 136,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.8347, 26.3648, 98.1242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 136, 255) }
```

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

```
.background{ background-color: rgb(76, 136,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor