

# Converting Colors

XYZ(32.3784, 34.9385, 99.6450)

Have a look what the booklet for  
XYZ(32.3784, 34.9385, 99.6450)  
contains.

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# Color

**XYZ(32.3134, 34.8158,  
99.6248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21A6FF
RGB	33, 166, 255
RGB Percent	13%, 65%, 100%
CMY	0.8705, 0.3490, 0.0000
CMYK	0.87, 0.35, 0.00, 0.00
HSL	204°, 100%, 56%
HSV	204°, 87%, 100%
XYZ	32.3134, 34.8158, 99.6248
YIQ	136.3790, -107.8370, -0.5170

# Conversions

## Conversions Part 2

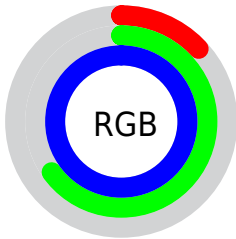
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	33, 116, 255
Decimal	2205439
CIE Lab	65.61, -2.78, -53.46
CIE LCh	66, 53.537, 267.025
Yxy	34.8158, 0.1938, 0.2088
Android (android.graphics.Color)	4280395519 (0xFF21A6FF)
YUV	136.3790, 58.4802, -90.6634
Hunter-Lab	59.0049, -5.5050, -58.8027

# Details

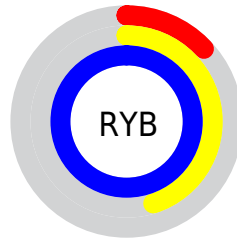
The XYZ color **32.3134, 34.8158, 99.6248** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **48.4777, 35.2955, 5.6986**, and the grayscale version is **23.3638, 24.5805, 26.7682**.

A 20% lighter version of the original color is **51.6522, 62.9260, 104.0313**, and **16.3238, 16.3387, 55.7194** is the 20% darker color. If you saturate the color by 10%, you get **29.9954, 30.9709, 99.0048**, and if you desaturate by 10%, it is **35.3954, 39.2747, 100.3230**.

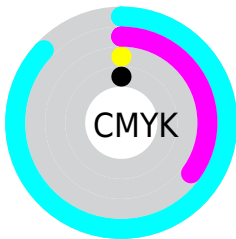
# Distribution



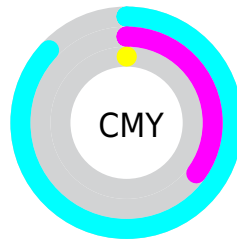
- Red (13%)
- Green (65%)
- Blue (100%)



- Red (13%)
- Yellow (45%)
- Blue (100%)



- Cyan (87%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)



- Cyan (87%)
- Magenta (35%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.3134, 34.8158, 99.6248 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 32.3134, 34.8158, 99.6248 by changing the saturation by 10% instead.



■ 32.3134, 34.8158,  
99.6248

■ 32.3134, 34.8158,  
99.6248

304.2644,  
323.7545, 580.2255

■ 21.7577, 23.5210,  
75.3721

■ 62.6640, 67.2003,  
162.6889

■ 13.7946, 14.9787,  
55.4142

■ 83.1895, 89.0588,  
202.3373

■ 8.0587, 8.8044,  
39.3326

■ 107.7691,  
115.2074, 247.9547

■ 4.1846, 4.6138,  
26.7088

■ 136.7680,  
146.0304, 299.9596

■ 1.8071, 2.0225,  
17.1241

■ 170.5517,  
181.9122, 358.7706

■ 0.5219, 0.6205,  
10.1601

209.4854,

■ 0.0000, 0.0000,

223.2372, 424.8063

5.3983

253.9345,  
270.3899, 498.4850

■ 0.0000, 0.0000,  
2.4200

■ 0.0000, 0.0000,  
0.7973

■ 32.3134, 34.8158,  
99.6248

■ 32.3134, 34.8158,  
99.6248

■ 29.9954, 30.9709,  
99.0048

■ 35.3954, 39.2747,  
100.3230

■ 29.4019, 29.9237,  
98.8340

■ 39.3625, 44.4138,  
101.1058

■ 44.3141, 50.2894,  
101.9790

■ 50.3343, 56.9494,  
102.9472

■ 57.4973, 64.4368,  
104.0149

■ 65.8704, 72.7903,  
105.1859

■ 75.5151, 82.0461,  
106.4642

■ 86.4886, 92.2377,  
107.8530

■ 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.



25.5300, 34.8158, 87.0319



32.3134, 34.8158, 99.6248



40.4427, 34.8158, 90.9990

# Triad

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



32.3134, 34.8158, 99.6248



48.4587, 34.8158, 21.4495



21.9652, 34.8158, 18.8971

# Complementary

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



32.3134, 34.8158, 99.6248



48.4777, 35.2955, 5.6986

# 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.



26.6896, 34.8158, 10.9503



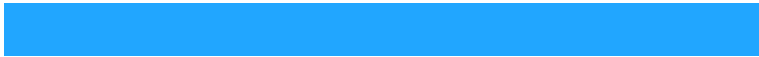
32.3134, 34.8158, 99.6248



42.0152, 34.8158, 11.9612

# Square

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



32.3134, 34.8158, 99.6248



50.5905, 34.8158, 40.1989



33.8817, 34.8158, 9.0349



20.1793, 34.8158, 35.7068



# Rectangle

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



32.3134, 34.8158, 99.6248



45.4233, 34.8158, 75.7197



33.8817, 34.8158, 9.0349



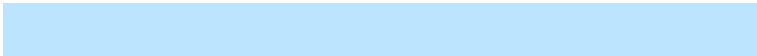
23.2217, 34.8158, 15.3999

# Sweetspot

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



32.3146, 34.8168, 99.6249



66.8203, 73.7172, 105.3148



39.8896, 73.2444, 30.3881



13.6415, 15.1307, 22.4515



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

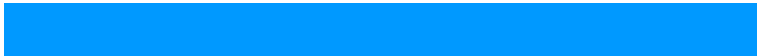


# Same Dimension

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



32.3146, 34.8168, 99.6249



29.4019, 29.9237, 98.8340



20.0550, 10.2976, 95.5384



17.9081, 19.1878, 23.0097



15.5133, 15.9361, 51.6929



1.6175, 1.7657, 5.0688



# Inverse Universe

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



48.6677, 25.1025, 38.3574



46.9699, 23.5520, 32.1032



70.5980, 79.5362, 13.0720



18.4663, 18.1698, 21.0725



24.6186, 12.3367, 17.1737



2.4511, 1.2228, 1.9567



# Previews

## White Background



This preview shows how the XYZ color 32.3134, 34.8158, 99.6248 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

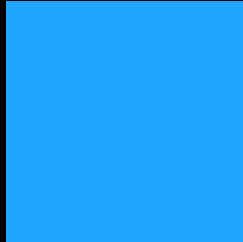
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.3134, 34.8158, 99.6248 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

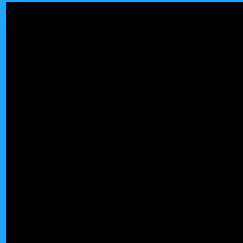
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

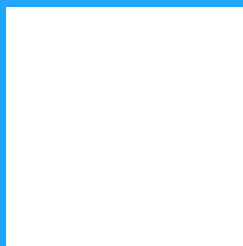
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.3134, 34.8158, 99.6248**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.3134, 34.8158, 99.6248.



This preview shows how white text looks on a background with the XYZ color 32.3134, 34.8158,



# 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

32.3134, 34.8158, 99.6248

### Protanopia

36.6602, 34.3952, 91.0929

### Deuteranopia

35.7037, 34.7256, 99.4287



## Tritanopia

24.7106, 34.7248, 53.5443

# Trichromacy



## Original Color

32.3134, 34.8158, 99.6248

## Protanomaly

33.9107, 33.9111, 94.3808

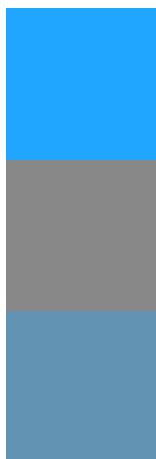
## Deuteranomaly

33.9508, 34.5972, 99.4963

## Tritanomaly

26.9144, 34.3873, 68.1697

# Monochromacy



## Original Color

32.3134, 34.8158, 99.6248

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

23.7160, 26.7748, 46.5659

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.3134, 34.8158, 99.6248 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(33, 166, 255)` looks like.

```
.text, #text, p{  
    color:rgb(33, 166, 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(33, 166, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 166, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 32.3134, 34.8158, 99.6248 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(33, 166, 255) }
```



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

```
.border{ border-color:rgb(33, 166, 255) }
```

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

Here you see how a box with a 4 pixel rgb(33, 166, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 166, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 166, 255);  
box-shadow:4px 4px 4px 4px rgb(33, 166,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.3134, 34.8158, 99.6248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 166, 255) }
```

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

```
.background{ background-color: rgb(33, 166,  
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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