

# Converting Colors

XYZ(23.9161, 30.4655,  
108.7828)

Have a look what the booklet for  
XYZ(23.9161, 30.4655, 108.7828)  
contains.

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# Color

**XYZ(31.8687, 34.8574,  
99.6562)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A7FF
RGB	0, 167, 255
RGB Percent	0%, 65%, 100%
CMY	0.9997, 0.3451, 0.0000
CMYK	1.00, 0.35, 0.00, 0.00
HSL	201°, 100%, 50%
HSV	201°, 100%, 100%
XYZ	31.8687, 34.8574, 99.6562
YIQ	127.0990, -127.7800, -8.0360

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 101, 255
Decimal	43007
CIELab	65.64, -4.53, -53.43
CIELCh	66, 53.620, 265.157
Yxy	34.8574, 0.1915, 0.2095
Android (android.graphics.Color)	4278233087 (0xFF00A7FF)
YUV	127.0990, 63.0552, -111.4658
Hunter-Lab	59.0402, -6.9695, -58.7498

# Details

The XYZ color **31.8687, 34.8574, 99.6562** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **44.7363, 28.2520, 3.0975**, and the grayscale version is **20.0368, 21.0803, 22.9564**.

A 20% lighter version of the original color is **50.8534, 62.9073, 104.0698**, and **16.4384, 16.5680, 55.7576** is the 20% darker color. If you saturate the color by 10%, you get **31.8641, 34.8482, 99.6547**, and if you desaturate by 10%, it is **33.9522, 38.4079, 100.2317**.

# Distribution



- Red (0%)
- Green (65%)
- Blue (100%)



- Red (0%)
- Yellow (40%)
- Blue (100%)



- Cyan (100%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (35%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8687, 34.8574, 99.6562 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 31.8687, 34.8574, 99.6562 by changing the saturation by 10% instead.



■ 31.8687, 34.8574,  
99.6562

■ 31.8687, 34.8574,  
99.6562

302.2766,  
323.9385, 580.3271

■ 21.4163, 23.5530,  
75.3982

■ 61.9718, 67.2648,  
162.7324

■ 13.5428, 15.0024,  
55.4354

■ 82.3532, 89.1366,  
202.3876

■ 7.8830, 8.8211,  
39.3495

■ 106.7749,  
115.2998, 248.0124

■ 4.0713, 4.6247,  
26.7218

■ 135.6024,  
146.1386, 300.0251

■ 1.7426, 2.0288,  
17.1338

■ 169.2009,  
182.0374, 358.8444

■ 0.4827, 0.6241,  
10.1670

207.9359,

■ 0.0000, 0.0000,

223.3808, 424.8888

5.4028

252.1727,  
270.5530, 498.5769

■ 0.0000, 0.0000,  
2.4226

■ 0.0000, 0.0000,  
0.7987

■ 31.8687, 34.8574,  
99.6562

■ 31.8687, 34.8574,  
99.6562

■ 31.8641, 34.8482,  
99.6547

■ 33.9522, 38.4079,  
100.2317

■ 36.6859, 42.4593,  
100.8697

■ 40.2370, 47.1012,  
101.5785

■ 44.7084, 52.3896,  
102.3636

■ 50.1863, 58.3719,  
103.2295

■ 56.7464, 65.0899,  
104.1805

■ 64.4567, 72.5814,  
105.2201

■ 73.3793, 80.8810,  
106.3518

■ 83.5714, 90.0210,  
107.5788

# Harmonies

## Analogous

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



25.2094, 34.8574, 85.8431



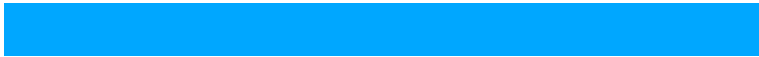
31.8687, 34.8574, 99.6562



39.9954, 34.8574, 92.3085

# Triad

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



31.8687, 34.8574, 99.6562



48.8174, 34.8574, 22.3396



22.1904, 34.8574, 18.1746

# Complementary

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



31.8687, 34.8574, 99.6562



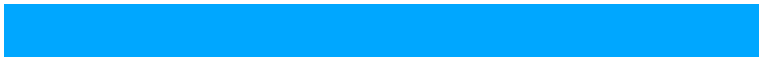
44.7363, 28.2520, 3.0975

# 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.



27.1006, 34.8574, 10.6745



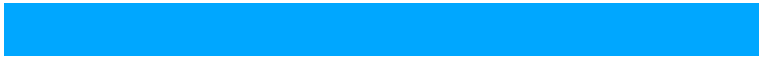
31.8687, 34.8574, 99.6562



42.5591, 34.8574, 12.3249

# Square

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



31.8687, 34.8574, 99.6562



50.6297, 34.8574, 41.7346



34.4260, 34.8574, 9.0634

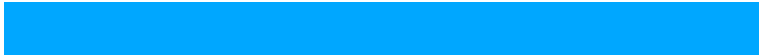


20.2150, 34.8574, 34.4085



# Rectangle

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



31.8687, 34.8574, 99.6562



45.0718, 34.8574, 77.4928



34.4260, 34.8574, 9.0634



23.5106, 34.8574, 14.8479

# Sweetspot

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



31.8699, 34.8584, 99.6564



64.4317, 72.5576, 105.2168



37.4027, 72.1772, 20.5653



13.0647, 14.8338, 22.4246



0.0000, 0.0000, 0.0000

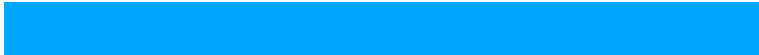


20.3446, 21.4041, 23.3091

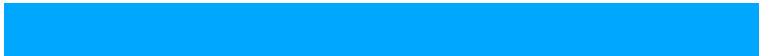


# Same Dimension

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



31.8699, 34.8584, 99.6564



31.8641, 34.8482, 99.6547



18.8991, 8.9167, 95.3327



17.9961, 19.3637, 23.0390



16.7944, 18.4984, 52.1200



1.7372, 2.0051, 5.1087



# Inverse Universe

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



48.2160, 24.0517, 38.6611



48.2127, 24.0491, 38.6479



64.9123, 68.6039, 9.8228



18.5107, 18.1876, 21.3063



25.2652, 12.5954, 20.5791

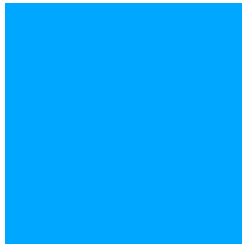


2.5115, 1.2470, 2.2748



# Previews

## White Background



This preview shows how the XYZ color 31.8687, 34.8574, 99.6562 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

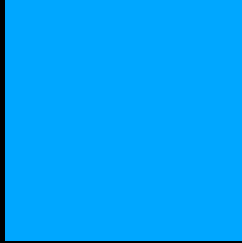
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.8687, 34.8574, 99.6562 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

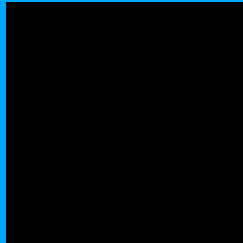
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

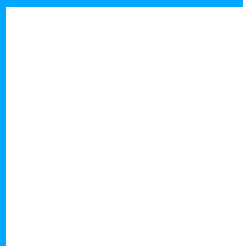
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.8687, 34.8574, 99.6562**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8687, 34.8574, 99.6562.



This preview shows how white text looks on a background with the XYZ color 31.8687, 34.8574,



# 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

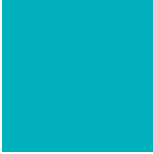
31.8687, 34.8574, 99.6562

### Protanopia

36.8070, 34.4709, 91.0998

### Deuteranopia

35.8150, 34.7830, 99.4339



## **Tritanopia**

24.7106, 34.7248, 53.5443

# Trichromacy



**Original Color**

31.8687, 34.8574, 99.6562

**Protanomaly**

32.8053, 33.3413, 94.3290

**Deuteranomaly**

33.0847, 34.1506, 99.4557

**Tritanomaly**

26.9538, 34.6912, 68.2263

# Monochromacy



**Original Color**

31.8687, 34.8574, 99.6562

**Achromatopsia**

20.1725, 21.2231, 23.1119

**Achromatomaly**

20.7063, 24.1513, 43.6147

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8687, 34.8574, 99.6562 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(0, 167, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 167, 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(0, 167, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 167, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8687, 34.8574, 99.6562 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(0, 167, 255) }
```



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

```
.border{ border-color:rgb(0, 167, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 167, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 167, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 167, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 167,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8687, 34.8574, 99.6562 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 167, 255) }
```

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

```
.background{ background-color: rgb(0, 167,  
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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