

# Converting Colors

XYZ(34.2862, 36.8775,  
119.8444)

Have a look what the booklet for  
XYZ(34.2862, 36.8775, 119.8444)  
contains.

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# Color

**XYZ(32.6129, 36.3458,  
99.9043)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00ABFF
RGB	0, 171, 255
RGB Percent	0%, 67%, 100%
CMY	0.9997, 0.3294, 0.0000
CMYK	1.00, 0.33, 0.00, 0.00
HSL	200°, 100%, 50%
HSV	200°, 100%, 100%
XYZ	32.6129, 36.3458, 99.9043
YIQ	129.4470, -128.8800, -10.1280

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 102, 255
Decimal	44031
CIELab	66.78, -6.78, -51.61
CIELCh	67, 52.058, 262.514
Yxy	36.3458, 0.1931, 0.2152
Android (android.graphics.Color)	4278234111 (0xFF00ABFF)
YUV	129.4470, 61.8976, -113.5250
Hunter-Lab	60.2875, -8.9424, -56.0501

# Details

The XYZ color **32.6129, 36.3458, 99.9043** 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 **44.4165, 27.6124, 2.9909**, and the grayscale version is **20.8533, 21.9393, 23.8919**.

A 20% lighter version of the original color is **51.9284, 65.0575, 104.4282**, and **16.7899, 17.2709, 55.8748** is the 20% darker color. If you saturate the color by 10%, you get **32.6085, 36.3369, 99.9028**, and if you desaturate by 10%, it is **34.6664, 39.8364, 100.4698**.

# Distribution



- Red (0%)
- Green (67%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (33%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.6129, 36.3458, 99.9043 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 32.6129, 36.3458, 99.9043 by changing the saturation by 10% instead.





 32.6129, 36.3458,  
99.9043


 32.6129, 36.3458,  
99.9043


305.5977,  
330.4695, 581.1299

 21.9879, 24.7014,  
75.6042


 63.1294, 69.5655,  
163.0764


 13.9645, 15.8547,  
55.6033


 83.7516, 91.9095,  
202.7854


 8.1775, 9.4214,  
39.4831

 108.4370,  
118.5889, 248.4679

 4.2615, 5.0171,  
26.8250

 137.5508,  
149.9880, 300.5423

 1.8511, 2.2573,  
17.2106

 171.4584,  
186.4912, 359.4271

 0.5482, 0.7510,  
10.2212

210.5252,

 0.0000, 0.0000,

228.4829, 425.5410

5.4383

255.1165,  
276.3475, 499.3024

■ 0.0000, 0.0000,  
2.4435

■ 0.0000, 0.0000,  
0.8100

■ 32.6129, 36.3458,  
99.9043

■ 32.6129, 36.3458,  
99.9043

■ 32.6085, 36.3369,  
99.9028

■ 34.6664, 39.8364,  
100.4698

■ 37.3609, 43.8095,  
101.0947

■ 40.8635, 48.3543,  
101.7873

■ 45.2765, 53.5260,  
102.5530

■ 50.6861, 59.3716,  
103.3962

■ 57.1676, 65.9324,  
104.3209

■ 64.7888, 73.2457,  
105.3308

■ 73.6115, 81.3457,  
106.4293

■ 83.6928, 90.2640,  
107.6194

# Harmonies

## Analogous

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



26.1369, 36.3458, 84.8383



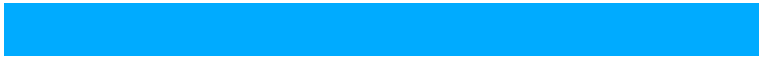
32.6129, 36.3458, 99.9043



40.6645, 36.3458, 94.5679

# Triad

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



32.6129, 36.3458, 99.9043



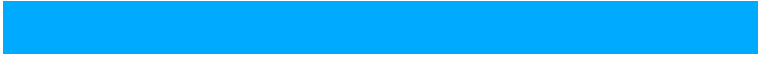
50.4801, 36.3458, 25.2016



23.8833, 36.3458, 18.6386

# Complementary

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



32.6129, 36.3458, 99.9043



44.4165, 27.6124, 2.9909

# 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.



29.0735, 36.3458, 11.5368



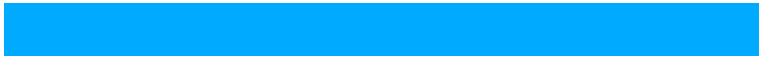
32.6129, 36.3458, 99.9043



44.5882, 36.3458, 14.1992

# Square

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



32.6129, 36.3458, 99.9043



51.8095, 36.3458, 45.4884



36.5532, 36.3458, 10.2955

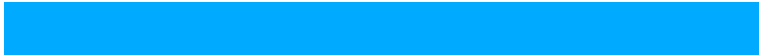


21.6185, 36.3458, 34.1966



# Rectangle

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



32.6129, 36.3458, 99.9043



45.8035, 36.3458, 80.8432



36.5532, 36.3458, 10.2955



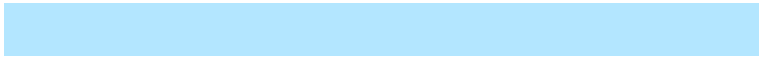
25.3023, 36.3458, 15.4681

# Sweetspot

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



32.6142, 36.3469, 99.9044



64.7643, 73.2227, 105.3277



37.2387, 72.1116, 19.7020



13.1442, 14.9928, 22.4511



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

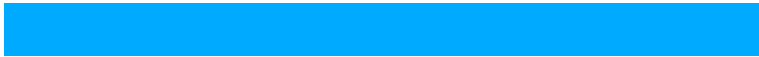


# Same Dimension

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



32.6142, 36.3469, 99.9044



32.6085, 36.3369, 99.9028



19.0600, 9.2385, 95.3864



18.0209, 19.4135, 23.0473



17.1810, 19.2716, 52.2488



1.7729, 2.0765, 5.1206



# Inverse Universe

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



48.5917, 24.2020, 40.6392



48.5884, 24.1994, 40.6263



63.8607, 66.5008, 9.4723



18.5232, 18.1926, 21.3724



25.4604, 12.6734, 21.6066

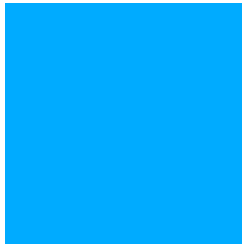


2.5295, 1.2542, 2.3697



# Previews

## White Background



This preview shows how the XYZ color 32.6129, 36.3458, 99.9043 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

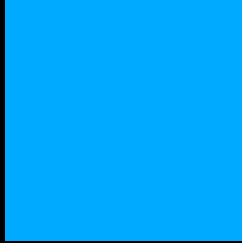
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.6129, 36.3458, 99.9043 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

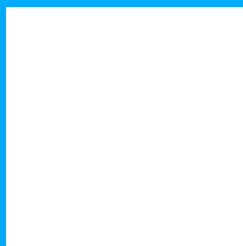
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.6129, 36.3458, 99.9043**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.6129, 36.3458, 99.9043.



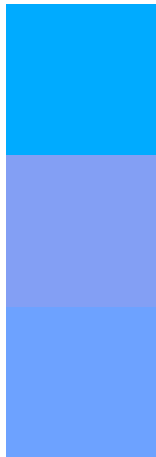
This preview shows how white text looks on a background with the XYZ color 32.6129, 36.3458,



# 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

32.6129, 36.3458, 99.9043

### Protanopia

38.0873, 36.1532, 90.5588

### Deuteranopia

37.2770, 36.3119, 99.6519



## Tritanopia

25.6345, 36.0460, 55.4757

# Trichromacy



**Original Color**

32.6129, 36.3458, 99.9043

**Protanomaly**

33.6077, 34.8107, 93.7548

**Deuteranomaly**

33.9594, 35.3955, 99.6499

**Tritanomaly**

27.7911, 35.9570, 69.7656

# Monochromacy



**Original Color**

32.6129, 36.3458, 99.9043

**Achromatopsia**

20.8660, 21.9526, 23.9064

**Achromatomaly**

21.1908, 24.8355, 44.2343

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.6129, 36.3458, 99.9043 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, 171, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 171, 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, 171, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 171, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 32.6129, 36.3458, 99.9043 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, 171, 255) }
```



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

```
.border{ border-color:rgb(0, 171, 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, 171, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 171, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 171, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 171,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.6129, 36.3458, 99.9043 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 171, 255) }
```

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

```
.background{ background-color: rgb(0, 171,  
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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