

# Converting Colors

XYZ(16.9676, 33.2471,  
102.3131)

Have a look what the booklet for  
XYZ(16.9676, 33.2471, 102.3131)  
contains.

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# Color

**XYZ(36.0332, 43.1864,  
101.0444)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BCFF
RGB	0, 188, 255
RGB Percent	0%, 74%, 100%
CMY	0.9997, 0.2627, 0.0000
CMYK	1.00, 0.26, 0.00, 0.00
HSL	196°, 100%, 50%
HSV	196°, 100%, 100%
XYZ	36.0332, 43.1864, 101.0444
YIQ	139.4260, -133.5550, -19.0190

# Conversions

## Conversions Part 2

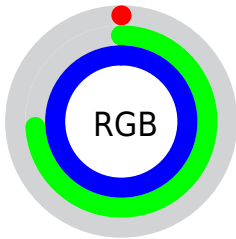
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 108, 255
Decimal	48383
CIELab	71.68, -16.06, -43.91
CIELCh	72, 46.752, 249.906
Yxy	43.1864, 0.1999, 0.2396
Android (android.graphics.Color)	4278238463 (0xFF00BCFF)
YUV	139.4260, 56.9780, -122.2766
Hunter-Lab	65.7164, -17.1296, -45.1619

# Details

The XYZ color **36.0332, 43.1864, 101.0444** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle saturated azure. A complement of this color would be **43.2520, 25.2833, 2.6027**, and the grayscale version is **24.5380, 25.8159, 28.1135**.

A 20% lighter version of the original color is **57.2107, 75.4321, 106.1523**, and **18.8570, 21.4052, 56.5638** is the 20% darker color. If you saturate the color by 10%, you get **36.0294, 43.1787, 101.0431**, and if you desaturate by 10%, it is **37.9141, 46.3317, 101.5524**.

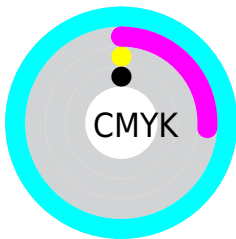
# Distribution



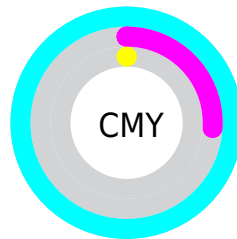
- Red (0%)
- Green (74%)
- Blue (100%)



- Red (0%)
- Yellow (42%)
- Blue (100%)



- Cyan (100%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (26%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.0332, 43.1864, 101.0444 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 36.0332, 43.1864, 101.0444 by changing the saturation by 10% instead.




 36.0332, 43.1864,  
101.0444


 36.0332, 43.1864,  
101.0444


320.5343,  
359.3778, 584.8112

 24.6301, 30.0314,  
76.5513


 68.4068, 79.9921,  
164.6561


 15.9289, 19.8624,  
56.3753

 90.1081, 104.4115,  
204.6117


 9.5644, 12.2951,  
40.0979

 115.9727,  
133.3546, 250.5586

 5.1711, 6.9450,  
27.3005

 146.3661,  
167.2056, 302.9154

 2.3838, 3.4277,  
17.5646

 181.6536,  
206.3491, 362.1005

 0.8370, 1.3589,  
10.4717

222.2005,

 0.0000, 0.1861,

251.1693, 428.5324

5.6031

268.3724,  
302.0508, 502.6298

■ 0.0000, 0.0000,  
2.5404

■ 0.0000, 0.0000,  
0.8615

■ 36.0332, 43.1864,  
101.0444

■ 36.0332, 43.1864,  
101.0444

■ 36.0294, 43.1787,  
101.0431

■ 37.9141, 46.3317,  
101.5524

■ 40.4004, 49.8884,  
102.1078

■ 43.6586, 53.9444,  
102.7190

■ 47.7900, 58.5530,  
103.3908

■ 52.8801, 63.7596,  
104.1275

■ 59.0033, 69.6037,  
104.9328

■ 66.2265, 76.1211,  
105.8101

■ 74.6108, 83.3443,  
106.7624

■ 84.2126, 91.3036,  
107.7926

# Harmonies

## Analogous

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



30.4360, 43.1864, 80.9300



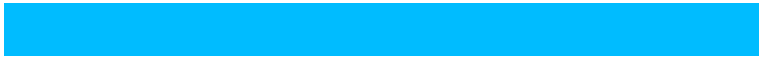
36.0332, 43.1864, 101.0444



43.7241, 43.1864, 104.4202

# Triad

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



36.0332, 43.1864, 101.0444



57.9561, 43.1864, 39.9097



32.0300, 43.1864, 20.8684

# Complementary

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



36.0332, 43.1864, 101.0444



43.2520, 25.2833, 2.6027

# 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.



38.4822, 43.1864, 15.8098



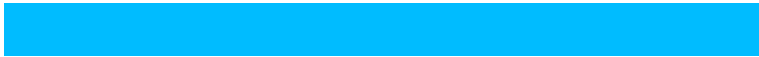
36.0332, 43.1864, 101.0444



53.8765, 43.1864, 24.2206

# Square

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



36.0332, 43.1864, 101.0444



57.0794, 43.1864, 63.6597



46.5064, 43.1864, 16.7992

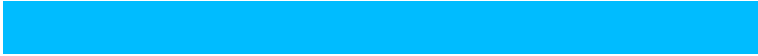


28.3392, 43.1864, 33.5705



# Rectangle

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



36.0332, 43.1864, 101.0444



49.1203, 43.1864, 95.8834



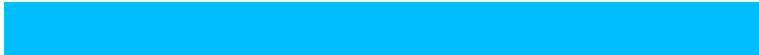
46.5064, 43.1864, 16.7992



33.9113, 43.1864, 18.4376

# Sweetspot

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



36.0346, 43.1878, 101.0446



66.2032, 76.1005, 105.8073



36.6809, 71.8885, 16.7644



13.4891, 15.6826, 22.5661



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

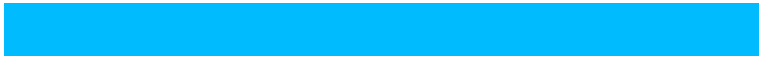


# Same Dimension

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



36.0346, 43.1878, 101.0446



36.0294, 43.1787, 101.0431



19.8735, 10.8656, 95.6576



18.1272, 19.6260, 23.0827



18.9544, 22.8184, 52.8400



1.9346, 2.4000, 5.1746



# Inverse Universe

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



50.3181, 24.8926, 49.7308



50.3152, 24.8901, 49.7191



59.9300, 58.6392, 8.1620



18.5768, 18.2141, 21.6548



26.3555, 13.0315, 26.3203



2.6111, 1.2868, 2.7996



# Previews

## White Background



This preview shows how the XYZ color 36.0332, 43.1864, 101.0444 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

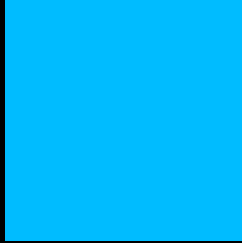
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.0332, 43.1864, 101.0444 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 36.0332, 43.1864, 101.0444

## Background



This preview shows how black text looks on a background with the XYZ color 36.0332, 43.1864, 101.0444.



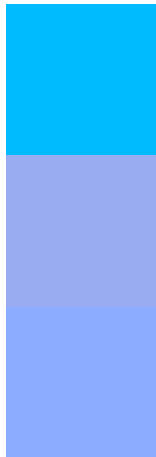
This preview shows how white text looks on a background with the XYZ color 36.0332, 43.1864,



# 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

36.0332, 43.1864, 101.0444

### Protanopia

43.9164, 42.6882, 89.9294

### Deuteranopia

43.8088, 42.6826, 100.5373



## Tritanopia

30.8004, 43.1870, 67.0342

# Trichromacy



## Original Color

36.0332, 43.1864, 101.0444

## Protanomaly

37.6387, 41.0976, 93.9445

## Deuteranomaly

38.0902, 41.1846, 100.5496

## Tritanomaly

32.5771, 43.1903, 78.5711

# Monochromacy



## Original Color

36.0332, 43.1864, 101.0444

## Achromatopsia

24.5403, 25.8183, 28.1161

## Achromatomaly

24.4220, 29.5248, 48.1278

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.0332, 43.1864, 101.0444 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, 188, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 188, 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, 188, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 188, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 36.0332, 43.1864, 101.0444 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, 188, 255) }
```



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

```
.border{ border-color:rgb(0, 188, 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, 188, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 188, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 188, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 188,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.0332, 43.1864, 101.0444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 188, 255) }
```

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

```
.background{ background-color: rgb(0, 188,  
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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