

# Converting Colors

XYZ(36.2993, 42.8657,  
100.9685)

Have a look what the booklet for  
XYZ(36.2993, 42.8657, 100.9685)  
contains.

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# Color

**XYZ(36.3854, 43.0520,  
100.9999)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FBBFF
RGB	31, 187, 255
RGB Percent	12%, 73%, 100%
CMY	0.8783, 0.2667, 0.0000
CMYK	0.88, 0.27, 0.00, 0.00
HSL	198°, 100%, 56%
HSV	198°, 88%, 100%
XYZ	36.3854, 43.0520, 100.9999
YIQ	148.1080, -114.8040, -11.9240

# Conversions

## Conversions Part 2

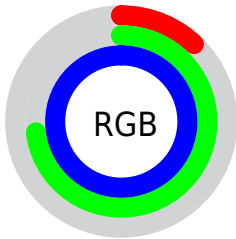
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	31, 123, 255
Decimal	2079743
CIE Lab	71.59, -14.49, -44.03
CIE LCh	72, 46.358, 251.781
Yxy	43.0520, 0.2017, 0.2386
Android (android.graphics.Color)	4280269823 (0xFF1FBBFF)
YUV	148.1080, 52.6978, -102.7037
Hunter-Lab	65.6140, -15.8397, -45.3355

# Details

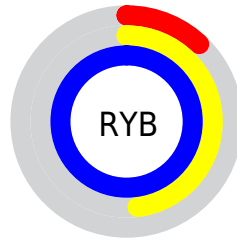
The XYZ color **36.3854, 43.0520, 100.9999** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **45.9523, 30.2881, 4.7227**, and the grayscale version is **28.0191, 29.4782, 32.1018**.

A 20% lighter version of the original color is **57.8463, 75.3143, 106.0960**, and **18.7181, 21.1274, 56.5175** is the 20% darker color. If you saturate the color by 10%, you get **34.2916, 39.6004, 100.4440**, and if you desaturate by 10%, it is **39.1685, 46.9918, 101.6137**.

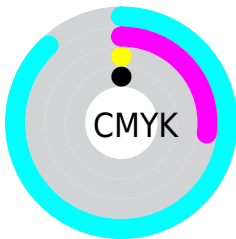
# Distribution



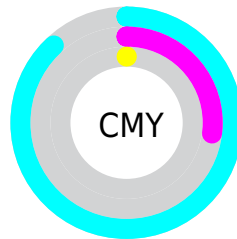
- Red (12%)
- Green (73%)
- Blue (100%)



- Red (12%)
- Yellow (48%)
- Blue (100%)



- Cyan (88%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)



- Cyan (88%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.3854, 43.0520, 100.9999 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 36.3854, 43.0520, 100.9999 by changing the saturation by 10% instead.



■ 36.3854, 43.0520,  
100.9999

■ 36.3854, 43.0520,  
100.9999

322.0439,  
358.8256, 584.6677

■ 24.9035, 29.9259,  
76.5143

■ 68.9465, 79.7893,  
164.5944

■ 16.1335, 19.7824,  
56.3452

■ 90.7564, 104.1694,  
204.5405

■ 9.7101, 12.2369,  
40.0739

■ 116.7396,  
133.0695, 250.4771

■ 5.2680, 6.9053,  
27.2819

■ 147.2616,  
166.8741, 302.8228

■ 2.4417, 3.4029,  
17.5508

■ 182.6877,  
205.9677, 361.9962

■ 0.8660, 1.3455,  
10.4619

223.3832,

■ 0.0000, 0.1761,

250.7345, 428.4158

5.5967

269.7134,  
301.5590, 502.5001

■ 0.0000, 0.0000,  
2.5366

■ 0.0000, 0.0000,  
0.8595

■ 36.3854, 43.0520,  
100.9999

■ 36.3854, 43.0520,  
100.9999

■ 34.2916, 39.6004,  
100.4440

■ 39.1685, 46.9918,  
101.6137

■ 33.8872, 38.8944,  
100.3291

■ 42.7671, 51.4847,  
102.2912

■ 47.2803, 56.5846,  
103.0377

■ 52.7912, 62.3361,  
103.8574

■ 59.3732, 68.7790,  
104.7541

■ 67.0919, 75.9490,  
105.7313

■ 76.0080, 83.8791,  
106.7920

■ 86.1773, 92.5999,  
107.9393

■ 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.



30.6771, 43.0520, 81.9231



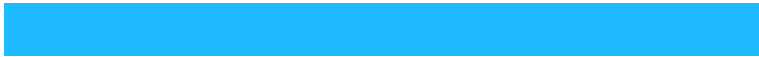
36.3854, 43.0520, 100.9999



44.0749, 43.0520, 103.1080

# Triad

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



36.3854, 43.0520, 100.9999



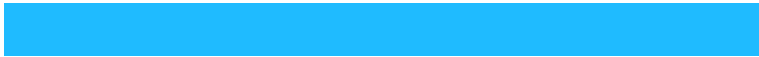
57.5204, 43.0520, 38.6036



31.6757, 43.0520, 21.4915

# Complementary

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



36.3854, 43.0520, 100.9999



45.9523, 30.2881, 4.7227

# 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.



37.9187, 43.0520, 16.0436



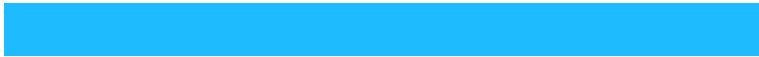
36.3854, 43.0520, 100.9999



53.2206, 43.0520, 23.5953

# Square

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



36.3854, 43.0520, 100.9999



56.9723, 43.0520, 61.7104



45.8157, 43.0520, 16.6655



28.2069, 43.0520, 34.6330



# Rectangle

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



36.3854, 43.0520, 100.9999



49.3828, 43.0520, 93.9824



45.8157, 43.0520, 16.6655



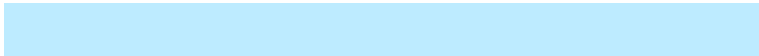
33.4833, 43.0520, 18.9224

# Sweetspot

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



36.3868, 43.0534, 101.0001



68.6334, 77.3434, 105.9191



38.5411, 72.6978, 23.6109



14.0735, 15.9947, 22.5955



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

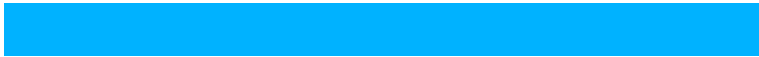


# Same Dimension

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



36.3868, 43.0534, 101.0001



33.8872, 38.8944, 100.3291



21.1884, 12.6565, 95.9339



18.0621, 19.4958, 23.0610



17.8445, 20.5986, 52.4700



1.8338, 2.1983, 5.1409



# Inverse Universe

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



50.7007, 25.8295, 49.3283



49.2339, 24.4576, 44.0252



64.5852, 67.5541, 10.9337



18.5440, 18.2009, 21.4818



25.7953, 12.8074, 23.3702

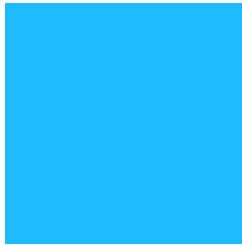


2.5602, 1.2665, 2.5315



# Previews

## White Background



This preview shows how the XYZ color 36.3854, 43.0520, 100.9999 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

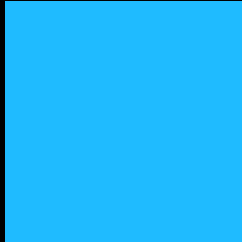
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.3854, 43.0520, 100.9999 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

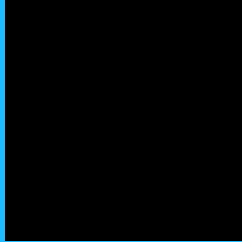
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

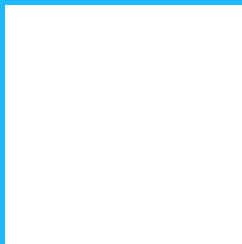
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 36.3854, 43.0520, 100.9999**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.3854, 43.0520, 100.9999.



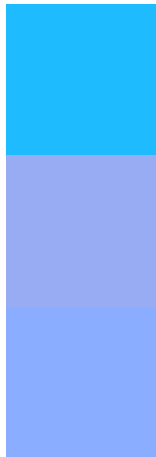
This preview shows how white text looks on a background with the XYZ color 36.3854, 43.0520,



# 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

36.3854, 43.0520, 100.9999

### Protanopia

43.8791, 42.6515, 90.7139

### Deuteranopia

43.6410, 42.5961, 100.5295



## Tritanopia

30.4551, 42.6940, 66.3101

# Trichromacy



**Original Color**

36.3854, 43.0520, 100.9999

**Protanomaly**

38.6950, 41.3478, 93.9372

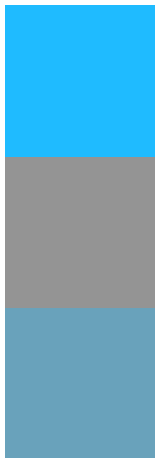
**Deuteranomaly**

39.2259, 41.7701, 100.6028

**Tritanomaly**

32.3594, 42.7690, 77.7839

# Monochromacy



**Original Color**

36.3854, 43.0520, 100.9999

**Achromatopsia**

28.1479, 29.6138, 32.2495

**Achromatomaly**

27.7157, 32.4318, 51.8129

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.3854, 43.0520, 100.9999 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(31, 187, 255)` looks like.

```
.text, #text, p{  
    color:rgb(31, 187, 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(31, 187, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 187, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 36.3854, 43.0520, 100.9999 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(31, 187, 255) }
```



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

```
.border{ border-color:rgb(31, 187, 255) }
```

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

Here you see how a box with a 4 pixel rgb(31, 187, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 187, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 187, 255);  
box-shadow:4px 4px 4px 4px rgb(31, 187,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.3854, 43.0520, 100.9999 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 187, 255) }
```

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

```
.background{ background-color: rgb(31, 187,  
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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