

# Converting Colors

XYZ(45.1199, 60.2664,  
103.8623)

Have a look what the booklet for  
XYZ(45.1199, 60.2664, 103.8623)  
contains.

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# Color

**XYZ(45.1652, 60.3704,  
103.8799)**

# Conversions

## Conversions Part 1

Format	Color
Hex	24DFFF
RGB	36, 223, 255
RGB Percent	14%, 87%, 100%
CMY	0.8587, 0.1255, 0.0000
CMYK	0.86, 0.13, 0.00, 0.00
HSL	189°, 100%, 57%
HSV	189°, 86%, 100%
XYZ	45.1652, 60.3704, 103.8799
YIQ	170.7350, -121.7240, -29.6920

# Conversions

## Conversions Part 2

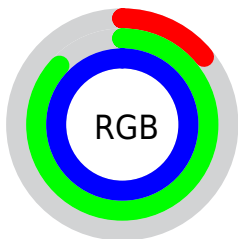
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	36, 137, 255
Decimal	2416639
CIE <sub>Lab</sub>	82.04, -32.41, -27.86
CIE <sub>LCh</sub>	82, 42.734, 220.680
Yxy	60.3704, 0.2157, 0.2883
Android (android.graphics.Color)	4280606719 (0xFF24DFFF)
YUV	170.7350, 41.5426, -118.1626
Hunter-Lab	77.6984, -32.2121, -24.8797

# Details

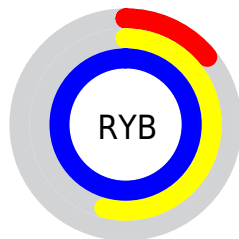
The XYZ color **45.1652, 60.3704, 103.8799** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **43.6274, 25.5246, 4.2985**, and the grayscale version is **38.4225, 40.4234, 44.0211**.

A 20% lighter version of the original color is **62.2674, 83.1000, 107.3658**, and **24.0118, 31.7147, 58.2821** is the 20% darker color. If you saturate the color by 10%, you get **43.5856, 58.0956, 103.5241**, and if you desaturate by 10%, it is **47.4021, 63.0190, 104.2733**.

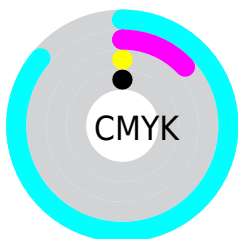
# Distribution



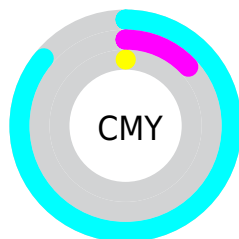
- Red (14%)
- Green (87%)
- Blue (100%)



- Red (14%)
- Yellow (54%)
- Blue (100%)



- Cyan (86%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)



- Cyan (86%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.1652, 60.3704, 103.8799 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 45.1652, 60.3704, 103.8799 by changing the saturation by 10% instead.



45.1652, 60.3704,  
103.8799

45.1652, 60.3704,  
103.8799

358.2147,  
425.9617, 593.9142

31.7894, 43.7173,  
78.9099

82.2038, 105.3668,  
168.5771

21.3555, 30.4483,  
58.3008

106.5973,  
134.4788, 209.1414

13.4980, 20.1791,  
41.6342

135.3941,  
168.5126, 255.7408

7.8517, 12.5253,  
28.4916

168.9595,  
207.8526, 308.7939

4.0512, 7.1025,  
18.4543

207.6589,  
252.8831, 368.7193

1.7312, 3.5263,  
11.1038

251.8577,

0.4757, 1.4123,

303.9885, 435.9355

6.0217

301.9211,  
361.5532, 510.8609

■ 0.0000, 0.2257,  
2.7893

■ 0.0000, 0.0000,  
0.9881

■ 45.1652, 60.3704,  
103.8799

■ 45.1652, 60.3704,  
103.8799

■ 43.5856, 58.0956,  
103.5241

■ 47.4021, 63.0190,  
104.2733

■ 43.0537, 57.2274,  
103.3846

■ 50.4066, 66.0949,  
104.7086

■ 54.2738, 69.6484,  
105.1907

■ 59.0832, 73.7208,  
105.7233

64.9055, 78.3486,  
106.3097

71.8042, 83.5649,  
106.9529

79.8378, 89.4000,  
107.6558

89.0602, 95.8819,  
108.4208

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.



41.9174, 60.3704, 75.4120



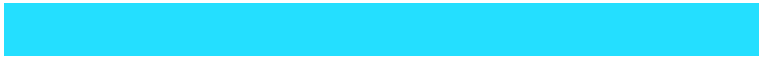
45.1652, 60.3704, 103.8799



51.8114, 60.3704, 124.8980

# Triad

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



45.1652, 60.3704, 103.8799



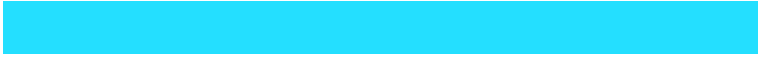
75.4255, 60.3704, 83.6457



54.2143, 60.3704, 27.9048

# Complementary

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



45.1652, 60.3704, 103.8799



43.6274, 25.5246, 4.2985

# 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.



63.3345, 60.3704, 29.0174



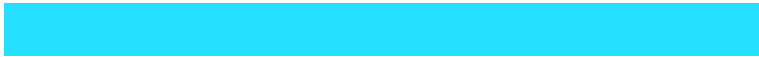
45.1652, 60.3704, 103.8799



76.2430, 60.3704, 56.9200

# Square

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



45.1652, 60.3704, 103.8799



69.4918, 60.3704, 111.2537



71.6202, 60.3704, 38.2970



46.7647, 60.3704, 34.7103

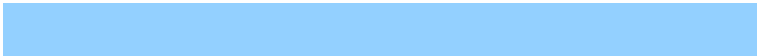


# Rectangle

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



45.1652, 60.3704, 103.8799



57.5871, 60.3704, 129.2493



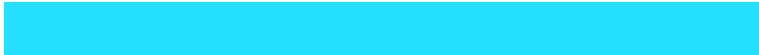
71.6202, 60.3704, 38.2970



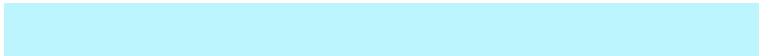
57.1739, 60.3704, 27.4218

# Sweetspot

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



45.1670, 60.3725, 103.8802



71.7088, 83.4943, 106.9443



37.4491, 72.2798, 17.0126



14.8113, 17.4704, 22.8414



0.0000, 0.0000, 0.0000

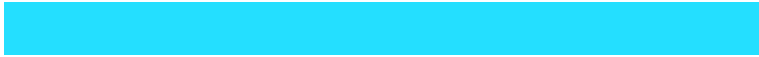


20.3446, 21.4041, 23.3091

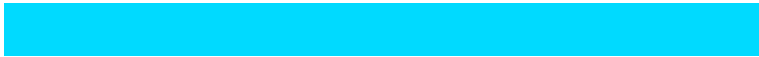


# Same Dimension

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



45.1670, 60.3725, 103.8802



43.0537, 57.2274, 103.3846



25.0605, 20.1595, 97.1781



18.3154, 20.0023, 23.1455



22.5827, 30.0751, 54.0494



2.2578, 3.0463, 5.2823



# Inverse Universe

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



55.1914, 27.8512, 72.2810



53.8607, 26.3083, 68.3897



56.8324, 51.9346, 8.7002



18.6718, 18.2520, 22.1549



28.1869, 13.7641, 35.9644

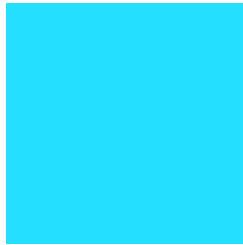


2.7742, 1.3521, 3.6585



# Previews

## White Background



This preview shows how the XYZ color 45.1652, 60.3704, 103.8799 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

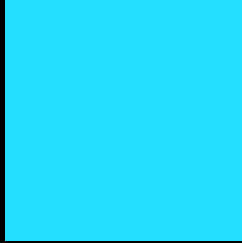
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.1652, 60.3704, 103.8799 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 45.1652, 60.3704, 103.8799**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.1652, 60.3704, 103.8799.



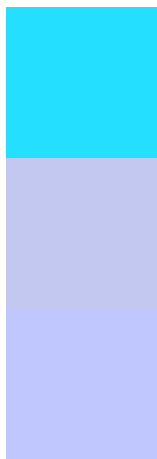
This preview shows how white text looks on a background with the XYZ color 45.1652, 60.3704,



# 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

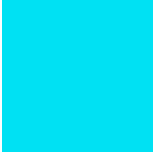
45.1652, 60.3704, 103.8799

### Protanopia

58.4824, 59.0099, 89.9690

### Deuteranopia

60.2117, 59.2733, 102.8751



## **Tritanopia**

43.1029, 60.3215, 94.1655

# Trichromacy



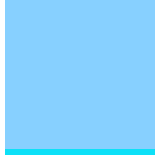
## Original Color

45.1652, 60.3704, 103.8799



## Protanomaly

49.3538, 57.0227, 94.7915



## Deuteranomaly

50.5975, 57.4826, 103.0362



## Tritanomaly

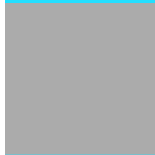
43.6101, 60.1123, 97.3000

# Monochromacy



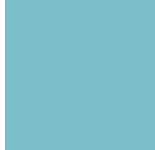
## Original Color

45.1652, 60.3704, 103.8799



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

37.1002, 45.2288, 62.6518

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.1652, 60.3704, 103.8799 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(36, 223, 255)` looks like.

```
.text, #text, p{  
    color:rgb(36, 223, 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(36, 223, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 223, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 45.1652, 60.3704, 103.8799 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(36, 223, 255) }
```



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

```
.border{ border-color:rgb(36, 223, 255) }
```

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

Here you see how a box with a 4 pixel rgb(36, 223, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 223, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 223, 255);  
box-shadow:4px 4px 4px 4px rgb(36, 223,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.1652, 60.3704, 103.8799 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 223, 255) }
```

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

```
.background{ background-color: rgb(36, 223,  
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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