

# Converting Colors

XYZ(72.8604, 73.7948,  
242.8785)

Have a look what the booklet for  
XYZ(72.8604, 73.7948, 242.8785)  
contains.

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# Color

**XYZ(46.4531, 63.0469,  
104.3287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22E4FF
RGB	34, 228, 255
RGB Percent	13%, 89%, 100%
CMY	0.8666, 0.1059, 0.0000
CMYK	0.87, 0.11, 0.00, 0.00
HSL	187°, 100%, 57%
HSV	187°, 87%, 100%
XYZ	46.4531, 63.0469, 104.3287
YIQ	173.0720, -124.2910, -32.7310

# Conversions

## Conversions Part 2

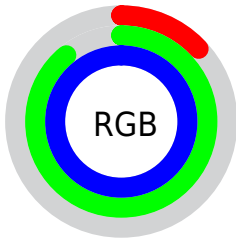
Format	Color
R <sub>Y</sub> B	34, 137, 255
Decimal	2286847
CIE Lab	83.47, -34.89, -25.68
CIE LCh	83, 43.319, 216.351
Yxy	63.0469, 0.2172, 0.2948
Android (android.graphics.Color)	4280476927 (0xFF22E4FF)
YUV	173.0720, 40.3905, -121.9661
Hunter-Lab	79.4021, -34.5247, -22.3214

# Details

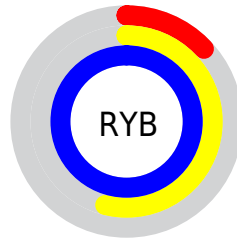
The XYZ color **46.4531, 63.0469, 104.3287** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **43.1993, 24.7159, 4.0093**, and the grayscale version is **39.6082, 41.6709, 45.3796**.

A 20% lighter version of the original color is **62.1222, 83.0251, 107.3590**, and **24.9456, 33.5823, 58.5933** is the 20% darker color. If you saturate the color by 10%, you get **45.0516, 61.0647, 104.0199**, and if you desaturate by 10%, it is **48.4942, 65.3843, 104.6723**.

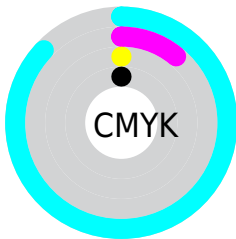
# Distribution



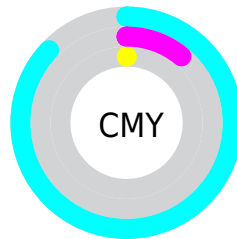
- Red (13%)
- Green (89%)
- Blue (100%)



- Red (13%)
- Yellow (54%)
- Blue (100%)



- Cyan (87%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (87%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4531, 63.0469, 104.3287 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 46.4531, 63.0469, 104.3287 by changing the saturation by 10% instead.



46.4531, 63.0469,  
104.3287

46.4531, 63.0469,  
104.3287

363.3128,  
435.7397, 595.3483

32.8097, 45.8792,  
79.2836

84.1204, 109.2372,  
169.1968

22.1392, 32.1505,  
58.6063

108.8750,  
139.0285, 209.8568

14.0764, 21.4765,  
41.8783

138.0640,  
173.7964, 256.5588

8.2559, 13.4727,  
28.6812

172.0528,  
213.9254, 309.7214

4.3123, 7.7549,  
18.5963

211.2067,  
259.7999, 369.7631

1.8803, 3.9385,  
11.2051

255.8911,

0.5653, 1.6392,

311.8041, 437.1025

6.0890

306.4713,  
370.3226, 512.1580

■ 0.0000, 0.3838,  
2.8296

■ 0.0000, 0.0000,  
1.0083

■ 46.4531, 63.0469,  
104.3287

■ 46.4531, 63.0469,  
104.3287

■ 45.0516, 61.0647,  
104.0199

■ 48.4942, 65.3843,  
104.6723

■ 44.6642, 60.4484,  
103.9214

■ 51.2884, 68.1316,  
105.0553

■ 54.9319, 71.3399,  
105.4825

■ 59.5051, 75.0509,  
105.9578

■ 65.0793, 79.3012,  
106.4844

■ 71.7183, 84.1240,  
107.0653

■ 79.4810, 89.5497,  
107.7035

■ 88.4217, 95.6063,  
108.4013

■ 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.



43.6238, 63.0469, 74.5644



46.4531, 63.0469, 104.3287



52.9294, 63.0469, 128.1756

# Triad

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



46.4531, 63.0469, 104.3287



78.1503, 63.0469, 91.6999



57.9372, 63.0469, 28.8395

# Complementary

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



46.4531, 63.0469, 104.3287



43.1993, 24.7159, 4.0093

# 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.



67.5096, 63.0469, 31.1710



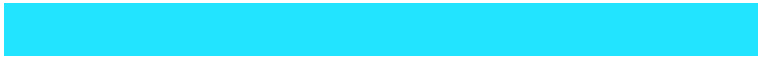
46.4531, 63.0469, 104.3287



79.8502, 63.0469, 63.0519

# Square

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



46.4531, 63.0469, 104.3287



71.3483, 63.0469, 119.6461



75.7762, 63.0469, 42.1992

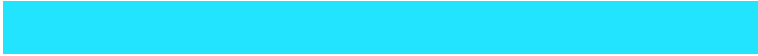


49.7897, 63.0469, 34.6958

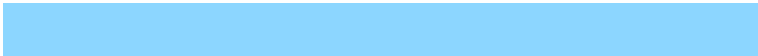


# Rectangle

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



46.4531, 63.0469, 104.3287



58.7757, 63.0469, 134.7491



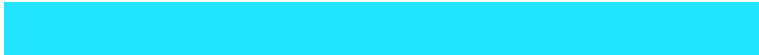
75.7762, 63.0469, 42.1992



61.0876, 63.0469, 28.7197

# Sweetspot

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



46.4549, 63.0491, 104.3290



72.1921, 84.4608, 107.1054



37.2312, 72.1848, 16.2193



14.9278, 17.7033, 22.8803



0.0000, 0.0000, 0.0000

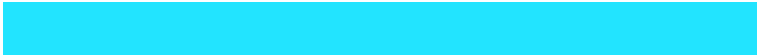


20.3446, 21.4041, 23.3091

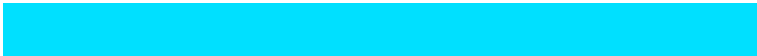


# Same Dimension

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



46.4549, 63.0491, 104.3290



44.6642, 60.4484, 103.9214



25.2759, 20.6911, 97.2693



18.3543, 20.0802, 23.1584



23.4128, 31.7351, 54.3261



2.3306, 3.1919, 5.3065



# Inverse Universe

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



55.8169, 28.0073, 75.8651



54.6736, 26.6334, 72.6705



55.9591, 50.2356, 8.2626



18.6915, 18.2599, 22.2585



28.6059, 13.9316, 38.1707

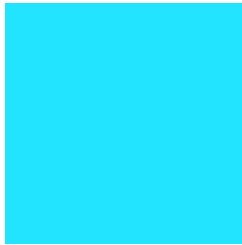


2.8110, 1.3668, 3.8521



# Previews

## White Background



This preview shows how the XYZ color 46.4531, 63.0469, 104.3287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

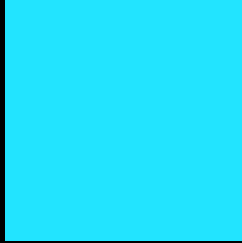
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.4531, 63.0469, 104.3287 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 46.4531, 63.0469, 104.3287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.4531, 63.0469, 104.3287.



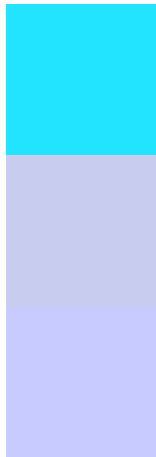
This preview shows how white text looks on a background with the XYZ color 46.4531, 63.0469,



# 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

46.4531, 63.0469, 104.3287

### Protanopia

60.9923, 61.6971, 90.3554

### Deuteranopia

62.9591, 62.0740, 103.2709



## Tritanopia

45.2120, 62.9445, 98.5735

# Trichromacy



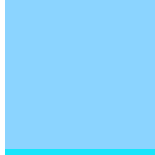
## Original Color

46.4531, 63.0469, 104.3287



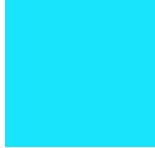
## Protanomaly

51.0909, 59.7565, 95.2276



## Deuteranomaly

52.2409, 59.7959, 103.3961



## Tritanomaly

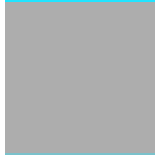
45.8086, 63.1978, 101.0508

# Monochromacy



## Original Color

46.4531, 63.0469, 104.3287



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

37.8755, 46.5893, 63.4963

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4531, 63.0469, 104.3287 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(34, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(34, 228, 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(34, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 228, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4531, 63.0469, 104.3287 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(34, 228, 255) }
```



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

```
.border{ border-color:rgb(34, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(34, 228,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4531, 63.0469, 104.3287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 228, 255) }
```

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

```
.background{ background-color: rgb(34, 228,  
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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