

# Converting Colors

XYZ(48.7595, 64.1554,  
104.4211)

Have a look what the booklet for  
XYZ(48.7595, 64.1554, 104.4211)  
contains.

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# Color

**XYZ(48.8540, 64.2846,  
104.4410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DE4FF
RGB	77, 228, 255
RGB Percent	30%, 89%, 100%
CMY	0.6980, 0.1059, 0.0000
CMYK	0.70, 0.11, 0.00, 0.00
HSL	189°, 100%, 65%
HSV	189°, 70%, 100%
XYZ	48.8540, 64.2846, 104.4410
YIQ	185.9290, -98.6630, -23.6150

# Conversions

## Conversions Part 2

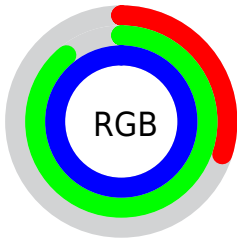
Format	Color
<a href="#">RYB</a>	<a href="#">77, 159, 255</a>
Decimal	<a href="#">5104895</a>
CIELab	<a href="#">84.11, -31.00, -24.63</a>
CIELCh	<a href="#">84, 39.599, 218.466</a>
Yxy	<a href="#">64.2846, 0.2245, 0.2955</a>
Android (android.graphics.Color)	<a href="#">4283294975 (0xFF4DE4FF)</a>
YUV	<a href="#">185.9290, 34.0520, -95.5307</a>
Hunter-Lab	<a href="#">80.1777, -31.5470, -21.1079</a>

# Details

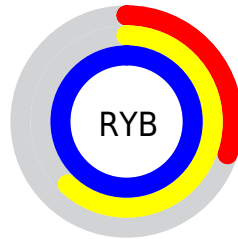
The XYZ color **48.8540, 64.2846, 104.4410** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **47.5312, 31.6984, 10.6366**, and the grayscale version is **46.4900, 48.9111, 53.2642**.

A 20% lighter version of the original color is **65.8426, 84.9430, 107.5331**, and **24.9456, 33.5823, 58.5933** is the 20% darker color. If you saturate the color by 10%, you get **46.1333, 61.3213, 104.0125**, and if you desaturate by 10%, it is **52.4080, 67.7154, 104.9159**.

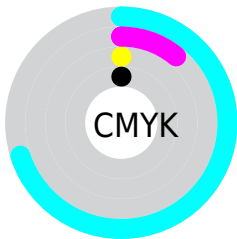
# Distribution



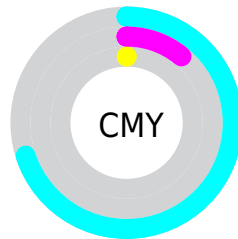
- Red (30%)
- Green (89%)
- Blue (100%)



- Red (30%)
- Yellow (62%)
- Blue (100%)



- Cyan (70%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (70%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8540, 64.2846, 104.4410 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 48.8540, 64.2846, 104.4410 by changing the saturation by 10% instead.





 48.8540, 64.2846,  
104.4410


 48.8540, 64.2846,  
104.4410


372.6938,  
440.2167, 595.7069


 34.7177, 46.8812,  
79.3771


 87.6766, 111.0207,  
169.3518


 23.6110, 32.9418,  
58.6827


 113.0936,  
141.1222, 210.0357

 15.1685, 22.0818,  
41.9394


 143.0017,  
176.2252, 256.7634

 9.0248, 13.9170,  
28.7287

 177.7660,  
216.7142, 309.9533

 4.8146, 8.0630,  
18.6318

217.7520,  
262.9734, 370.0241

 2.1725, 4.1353,  
11.2305

263.3251,

 0.7282, 1.7495,

315.3872, 437.3943

6.1059

314.8506,  
374.3402, 512.4824

■ 0.0000, 0.4554,  
2.8398

■ 0.0000, 0.0000,  
1.0134

■ 48.8540, 64.2846,  
104.4410

■ 48.8540, 64.2846,  
104.4410

■ 46.1333, 61.3213,  
104.0125

■ 52.4080, 67.7154,  
104.9159

■ 44.1398, 58.7668,  
103.6245

■ 56.8742, 71.6507,  
105.4401

■ 42.7149, 56.5402,  
103.2698

■ 62.3281, 76.1310,  
106.0175

■ 42.6885, 56.4970,  
103.2628

■ 68.8359, 81.1906,  
106.6511

■ 76.4579, 86.8608,  
107.3438

■ 85.2498, 93.1705,  
108.0983

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.



45.9276, 64.2846, 77.3295



48.8540, 64.2846, 104.4410



55.1321, 64.2846, 125.0485

# Triad

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



48.8540, 64.2846, 104.4410



78.1208, 64.2846, 89.2078



58.6575, 64.2846, 32.3410

# Complementary

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



48.8540, 64.2846, 104.4410



47.5312, 31.6984, 10.6366

# 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.



67.4849, 64.2846, 34.0667



48.8540, 64.2846, 104.4410



79.2938, 64.2846, 63.1396

# Square

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



48.8540, 64.2846, 104.4410



72.1726, 64.2846, 114.8943



75.2397, 64.2846, 44.1017

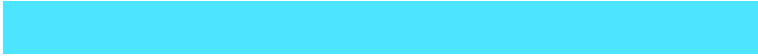


51.2232, 64.2846, 38.6460

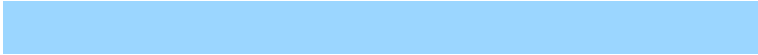


# Rectangle

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



48.8540, 64.2846, 104.4410



60.6514, 64.2846, 130.0387



75.2397, 64.2846, 44.1017



61.5520, 64.2846, 32.0385

# Sweetspot

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



48.8558, 64.2869, 104.4414



75.4819, 86.1467, 107.2574



41.3055, 74.0919, 25.1438



15.6895, 18.0949, 22.9157



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

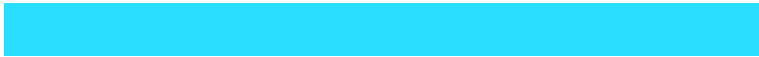


# Same Dimension

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



48.8558, 64.2869, 104.4414



45.2136, 60.2016, 103.8448



30.3888, 27.3528, 98.2857



18.3063, 19.9843, 23.1425



22.3945, 29.6985, 53.9867



2.2412, 3.0132, 5.2767



# Inverse Universe

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



57.8988, 32.1710, 76.5592



55.2794, 28.1334, 71.9834



61.5846, 59.8053, 15.3211



18.6673, 18.2502, 22.1310



28.0919, 13.7260, 35.4640

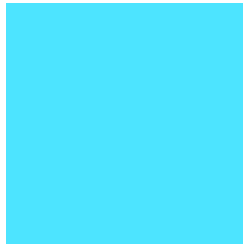


2.7659, 1.3487, 3.6145



# Previews

## White Background



This preview shows how the XYZ color 48.8540, 64.2846, 104.4410 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

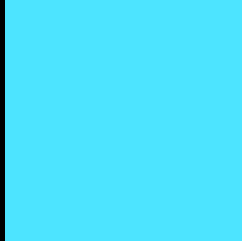
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8540, 64.2846, 104.4410 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 48.8540, 64.2846, 104.4410

## Background



This preview shows how black text looks on a background with the XYZ color 48.8540, 64.2846, 104.4410.



This preview shows how white text looks on a background with the XYZ color 48.8540, 64.2846,



# 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

48.8540, 64.2846, 104.4410

### Protanopia

62.1566, 62.9904, 91.3204

### Deuteranopia

64.2384, 63.4392, 103.4670



## Tritanopia

47.7102, 64.2324, 98.6904

# Trichromacy



## Original Color

48.8540, 64.2846, 104.4410



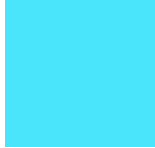
## Protanomaly

54.4326, 61.8538, 95.4563



## Deuteranomaly

55.7489, 61.9766, 103.6321



## Tritanomaly

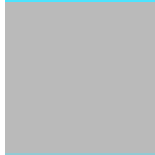
48.2559, 64.4595, 101.1654

# Monochromacy



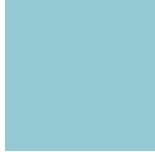
## Original Color

48.8540, 64.2846, 104.4410



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

44.4986, 52.5874, 69.4331

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8540, 64.2846, 104.4410 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(77, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 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(77, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 228, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8540, 64.2846, 104.4410 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".

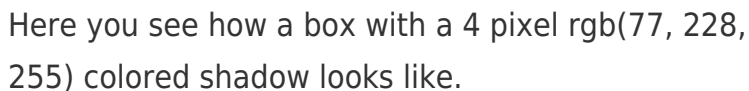
```
.border, #border, table{ border:4px solid rgb(77, 228, 255) }
```



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

```
.border{ border-color:rgb(77, 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(77, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(77, 228, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(77, 228, 255); box-shadow:4px 4px 4px 4px rgb(77, 228, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8540, 64.2846, 104.4410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 228, 255) }
```

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

```
.background{ background-color: rgb(77, 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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