

# Converting Colors

XYZ(45.0140, 59.5049, 84.2566)

Have a look what the booklet for  
XYZ(45.0140, 59.5049, 84.2566)  
contains.

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# Color

**XYZ(45.0217, 59.5522,  
83.9847)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63DCE6
RGB	99, 220, 230
RGB Percent	39%, 86%, 90%
CMY	0.6117, 0.1372, 0.0980
CMYK	0.57, 0.04, 0.00, 0.10
HSL	185°, 72%, 65%
HSV	185°, 57%, 90%
XYZ	45.0217, 59.5522, 83.9847
YIQ	184.9610, -75.3260, -22.5420

# Conversions

## Conversions Part 2

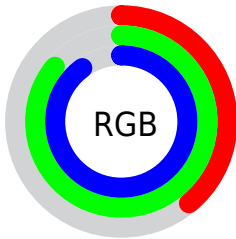
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	99, 162, 230
Decimal	6544614
CIE <sub>Lab</sub>	81.59, -30.90, -15.15
CIE <sub>LCh</sub>	82, 34.419, 206.119
Yxy	59.5522, 0.2388, 0.3158
Android (android.graphics.Color)	4284734694 (0xFF63DCE6)
YUV	184.9610, 22.2042, -75.3878
Hunter-Lab	77.1701, -30.9092, -10.5066

# Details

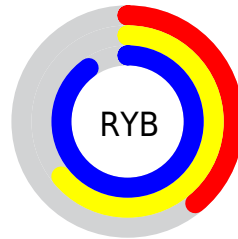
The XYZ color **45.0217, 59.5522, 83.9847** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **40.3551, 28.6624, 15.2115**, and the grayscale version is **46.0047, 48.4005, 52.7081**.

A 20% lighter version of the original color is **68.3072, 86.2136, 107.6485**, and **21.3900, 30.1070, 45.2413** is the 20% darker color. If you saturate the color by 10%, you get **42.3999, 57.5215, 83.7320**, and if you desaturate by 10%, it is **48.3674, 61.9659, 84.2753**.

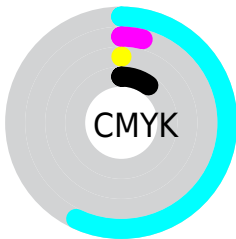
# Distribution



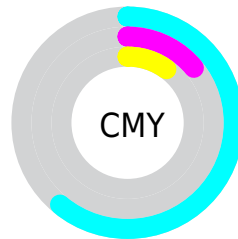
- Red (39%)
- Green (86%)
- Blue (90%)



- Red (39%)
- Yellow (64%)
- Blue (90%)



- Cyan (57%)
- Magenta (4%)
- Yellow (0%)
- Black (10%)



- Cyan (61%)
- Magenta (14%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0217, 59.5522, 83.9847 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 45.0217, 59.5522, 83.9847 by changing the saturation by 10% instead.



45.0217, 59.5522,  
83.9847

45.0217, 59.5522,  
83.9847

357.6437,  
422.9452, 528.3192

31.6759, 43.0578,  
62.4575

81.9898, 104.1798,  
140.8153

21.2684, 29.9305,  
44.9643

106.3429,  
133.0818, 176.9558

13.4339, 19.7858,  
31.0866

135.0956,  
166.8884, 218.8044

7.8071, 12.2394,  
20.4057

168.6136,  
205.9841, 266.7798

4.0225, 6.9070,  
12.5033

207.2620,  
250.7532, 321.3004

1.7149, 3.4040,  
6.9608

251.4062,

0.4656, 1.3461,

301.5802, 382.7848

3.3595

301.4117,  
358.8494, 451.6515

■ 0.0000, 0.1765,  
1.2810

■ 0.0000, 0.0000,  
0.0461

■ 45.0217, 59.5522,  
83.9847

■ 45.0217, 59.5522,  
83.9847

■ 42.3999, 57.5215,  
83.7320

■ 48.3674, 61.9659,  
84.2753

■ 40.4339, 55.8348,  
83.5100


■ 52.4867, 64.7842,  
84.6022


■ 39.0523, 54.4564,  
83.3168


■ 57.4313, 68.0352,  
84.9691


■ 38.1604, 53.3377,  
83.1479

■ 63.2467, 71.7425,  
85.3782


 37.9385, 53.0240,  
83.0990

 69.9754, 75.9278,  
85.8314

 77.6569, 80.6115,  
86.3306

 84.4619, 84.8508,  
86.7902

 84.9593, 85.8457,  
86.9560

 85.4617, 86.8505,  
87.1234

# Harmonies

## Analogous

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



43.8415, 59.5522, 62.1864



45.0217, 59.5522, 83.9847



49.2052, 59.5522, 103.8039

# Triad

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



45.0217, 59.5522, 83.9847



68.9385, 59.5522, 89.6496



57.5481, 59.5522, 32.6936

# Complementary

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



45.0217, 59.5522, 83.9847



40.3551, 28.6624, 15.2115

# 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.



64.7065, 59.5522, 37.1002



45.0217, 59.5522, 83.9847



71.6269, 59.5522, 67.5726

# Square

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



45.0217, 59.5522, 83.9847



62.9422, 59.5522, 107.5329



70.0164, 59.5522, 48.8548



50.7036, 59.5522, 35.2750

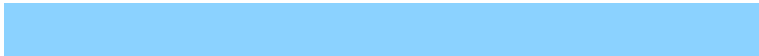


# Rectangle

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



45.0217, 59.5522, 83.9847



53.3345, 59.5522, 111.6495



70.0164, 59.5522, 48.8548



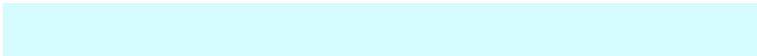
60.0015, 59.5522, 33.3766

# Sweetspot

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



45.0235, 59.5545, 83.9861



79.8141, 90.5922, 107.8871



36.1364, 60.3246, 23.8540



16.7468, 19.1780, 23.0690



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.



45.0235, 59.5545, 83.9861



53.1774, 72.3607, 105.7720



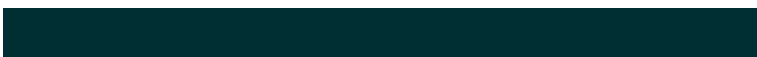
31.2795, 32.0664, 79.4048



14.7084, 16.1382, 18.4841



21.5190, 30.1001, 47.0589



1.6184, 2.2807, 3.4869



# Inverse Universe

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



50.0148, 30.9156, 71.0438



60.2190, 33.6312, 87.1374



49.8751, 47.7023, 18.3848



14.9451, 14.5952, 17.9115



25.2553, 12.2363, 36.5690

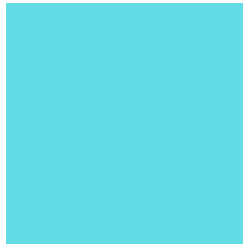


1.8805, 0.9099, 2.7772



# Previews

## White Background



This preview shows how the XYZ color 45.0217, 59.5522, 83.9847 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

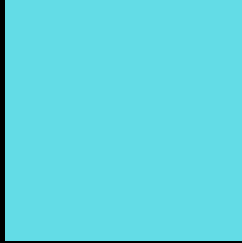
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.0217, 59.5522, 83.9847 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

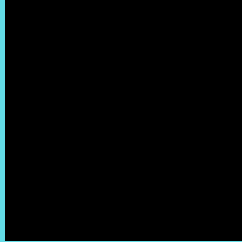
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.0217, 59.5522, 83.9847**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0217, 59.5522, 83.9847.



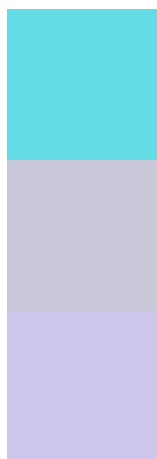
This preview shows how white text looks on a background with the XYZ color 45.0217, 59.5522,



# 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

45.0217, 59.5522, 83.9847

### Protanopia

56.9981, 58.5977, 73.9520

### Deuteranopia

60.1385, 58.9098, 86.7984



## Tritanopia

46.0971, 59.6022, 89.1956

# Trichromacy



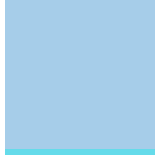
## Original Color

45.0217, 59.5522, 83.9847



## Protanomaly

50.6019, 57.6861, 77.5748



## Deuteranomaly

52.2652, 57.6528, 85.4642



## Tritanomaly

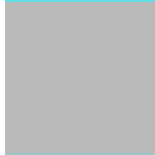
45.5496, 59.3703, 86.9008

# Monochromacy



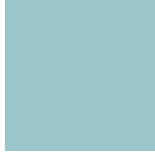
## Original Color

45.0217, 59.5522, 83.9847



## Achromatopsia

46.1135, 48.5150, 52.8328



## Achromatomaly

44.0631, 51.4752, 62.8717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0217, 59.5522, 83.9847 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(99, 220, 230)` looks like.

```
.text, #text, p{  
    color:rgb(99, 220, 230)  
}
```

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(99, 220, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 220, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0217, 59.5522, 83.9847 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(99, 220, 230) }
```



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

```
.border{ border-color:rgb(99, 220, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 220, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 220, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 220, 230);  
box-shadow:4px 4px 4px 4px rgb(99, 220,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0217, 59.5522, 83.9847 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 220, 230) }
```

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

```
.background{ background-color: rgb(99, 220,  
230) }
```

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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