

# Converting Colors

XYZ(46.1696, 63.9011, 77.1921)

Have a look what the booklet for  
XYZ(46.1696, 63.9011, 77.1921)  
contains.

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# Color

**XYZ(46.1723, 63.9198,  
76.9221)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65E5DB
RGB	101, 229, 219
RGB Percent	40%, 90%, 86%
CMY	0.6039, 0.1019, 0.1412
CMYK	0.56, 0.00, 0.04, 0.10
HSL	175°, 71%, 65%
HSV	175°, 56%, 90%
XYZ	46.1723, 63.9198, 76.9221
YIQ	189.5880, -73.0780, -30.2460

# Conversions

## Conversions Part 2

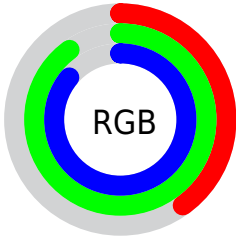
Format	Color
R <sub>Y</sub> B	101, 168, 229
Decimal	6677979
CIE Lab	83.92, -37.65, -5.84
CIE LCh	84, 38.105, 188.821
Yxy	63.9198, 0.2469, 0.3418
Android (android.graphics.Color)	4284868059 (0xFF65E5DB)
YUV	189.5880, 14.5001, -77.6917
Hunter-Lab	79.9499, -36.8257, -1.0797

# Details

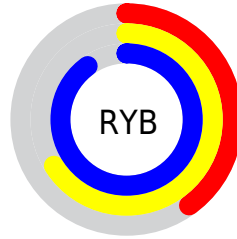
The XYZ color **46.1723, 63.9198, 76.9221** is a light color, and the websafe version is hex **33CCCC**. A complement of this color would be **39.8381, 27.1149, 18.1750**, and the grayscale version is **48.6578, 51.1918, 55.7479**.

A 20% lighter version of the original color is **68.7103, 86.4214, 107.6673**, and **21.9753, 32.7380, 40.2828** is the 20% darker color. If you saturate the color by 10%, you get **43.7229, 62.6856, 75.5856**, and if you desaturate by 10%, it is **49.3422, 65.5281, 78.3084**.

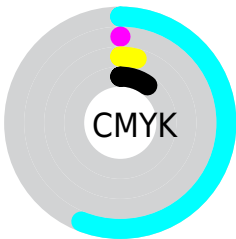
# Distribution



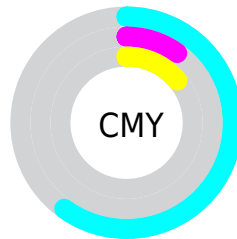
- Red (40%)
- Green (90%)
- Blue (86%)



- Red (40%)
- Yellow (66%)
- Blue (90%)



- Cyan (56%)
- Magenta (0%)
- Yellow (4%)
- Black (10%)




- Cyan (60%)
- Magenta (10%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.1723, 63.9198, 76.9221 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 46.1723, 63.9198, 76.9221 by changing the saturation by 10% instead.





 46.1723, 63.9198,  
76.9221


 46.1723, 63.9198,  
76.9221


362.2053,  
438.9000, 503.9290


 32.5870, 46.5857,  
56.6778


 83.7031, 110.4954,  
130.8015

 21.9680, 32.7083,  
40.3389


 108.3793,  
140.5058, 165.2737

 13.9498, 21.9031,  
27.4871


 137.4832,  
175.5103, 205.3255

 8.1673, 13.7857,  
17.7037

171.3801,  
215.8935, 251.3756

 4.2549, 7.9718,  
10.5703

210.4354,  
262.0396, 303.8424

 1.8473, 4.0769,  
5.6681

255.0145,

 0.5459, 1.7167,

314.3331, 363.1446

2.5789

305.4826,  
373.1585, 429.7006

■ 0.0000, 0.4344,  
0.8815

■ 0.0000, 0.0000,  
0.0000

■ 46.1723, 63.9198,  
76.9221

■ 46.1723, 63.9198,  
76.9221

■ 43.7229, 62.6856,  
75.5856

■ 49.3422, 65.5281,  
78.3084

■ 41.9273, 61.7868,  
74.2914


■ 53.2810, 67.5309,  
79.7426


■ 40.7163, 61.1890,  
73.0377


■ 58.0393, 69.9560,  
81.2283


■ 40.0020, 60.8470,  
71.8204

■ 63.6619, 72.8263,  
82.7679

 39.7919, 60.7493,  
71.3282

 70.1904, 76.1633,  
84.3633

 77.6635, 79.9870,  
86.0163

 83.7589, 83.1001,  
87.6183

 84.0137, 83.2021,  
88.9605

 84.2712, 83.3050,  
90.3163

# Harmonies

## Analogous

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



46.9246, 63.9198, 54.2113



46.1723, 63.9198, 76.9221



49.0370, 63.9198, 102.7467

# Triad

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



46.1723, 63.9198, 76.9221



71.4332, 63.9198, 112.1331



66.7677, 63.9198, 34.8073

# Complementary

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



46.1723, 63.9198, 76.9221



39.8381, 27.1149, 18.1750

# 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.



74.2026, 63.9198, 44.4767



46.1723, 63.9198, 76.9221



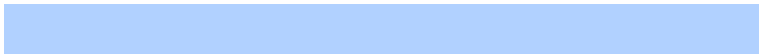
77.0638, 63.9198, 87.6506

# Square

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



46.1723, 63.9198, 76.9221



63.2602, 63.9198, 125.9317



78.1214, 63.9198, 62.7538



58.3146, 63.9198, 33.2112



# Rectangle

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



46.1723, 63.9198, 76.9221



52.7824, 63.9198, 117.0548



78.1214, 63.9198, 62.7538



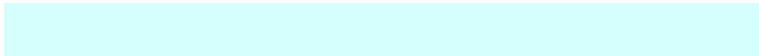
69.4901, 63.9198, 37.0932

# Sweetspot

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



46.1742, 63.9223, 76.9236



80.3199, 92.4688, 105.3888



37.0100, 60.4036, 22.0217



16.8678, 19.6267, 22.4717



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.



46.1742, 63.9223, 76.9236



55.4040, 79.8015, 96.2117



34.9717, 39.3462, 79.8829



14.7563, 16.3159, 18.2474



22.7708, 34.7404, 40.8892



1.6972, 2.5730, 3.0981



# Inverse Universe

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



39.8381, 27.1149, 18.1750



46.6031, 28.4964, 14.4761



46.2750, 40.8212, 17.7536



14.4225, 14.3862, 15.1591



18.5540, 9.5558, 1.2802

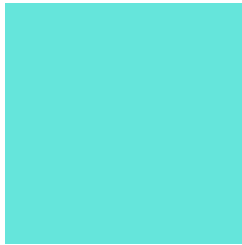


1.3871, 0.7125, 0.1789



# Previews

## White Background



This preview shows how the XYZ color 46.1723, 63.9198, 76.9221 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

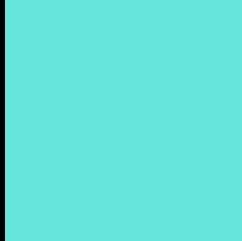
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.1723, 63.9198, 76.9221 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

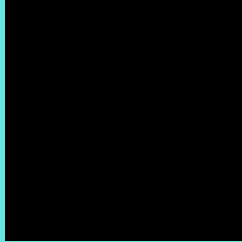
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

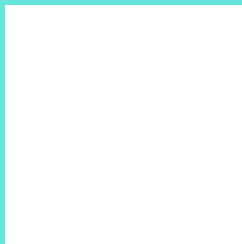
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.1723, 63.9198, 76.9221

## Background



This preview shows how black text looks on a background with the XYZ color 46.1723, 63.9198, 76.9221.



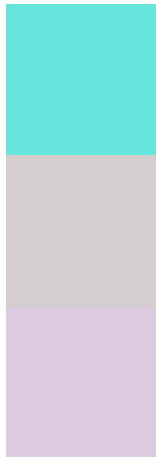
This preview shows how white text looks on a background with the XYZ color 46.1723, 63.9198,



# 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

46.1723, 63.9198, 76.9221

### Protanopia

60.6048, 63.0789, 67.3738

### Deuteranopia

64.2263, 62.8929, 79.9886



## Tritanopia

49.6848, 63.6971, 95.2641

# Trichromacy



## Original Color

46.1723, 63.9198, 76.9221



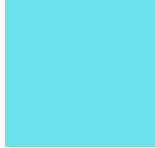
## Protanomaly

53.0716, 62.0747, 70.8125



## Deuteranomaly

54.9942, 61.7618, 78.8348



## Tritanomaly

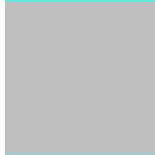
48.2552, 63.5167, 88.3139

# Monochromacy



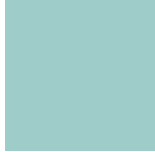
## Original Color

46.1723, 63.9198, 76.9221



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

46.2360, 54.6719, 63.3742

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.1723, 63.9198, 76.9221 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(101, 229, 219)` looks like.

```
.text, #text, p{  
    color:rgb(101, 229, 219)  
}
```

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(101, 229, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 229, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 46.1723, 63.9198, 76.9221 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(101, 229, 219) }
```



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

```
.border{ border-color:rgb(101, 229, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 229, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(101, 229, 219); -webkit-box-shadow:4px 4px 4px 4px rgb(101, 229, 219); box-shadow:4px 4px 4px 4px rgb(101, 229, 219) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.1723, 63.9198, 76.9221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 229, 219) }
```

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

```
.background{ background-color: rgb(101,  
229, 219) }
```

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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