

# Converting Colors

XYZ(43.9975, 62.2513, 83.1206)

Have a look what the booklet for  
XYZ(43.9975, 62.2513, 83.1206)  
contains.

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# Color

**XYZ(43.9938, 62.2465,  
83.0948)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42E4E4
RGB	66, 228, 228
RGB Percent	26%, 89%, 89%
CMY	0.7411, 0.1059, 0.1059
CMYK	0.71, 0.00, 0.00, 0.11
HSL	180°, 75%, 58%
HSV	180°, 71%, 89%
XYZ	43.9938, 62.2465, 83.0948
YIQ	179.5620, -96.5520, -34.3440

# Conversions

## Conversions Part 2

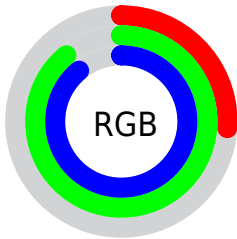
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	66, 147, 228
Decimal	4383972
CIE Lab	83.04, -40.14, -12.00
CIE LCh	83, 41.900, 196.646
Yxy	62.2465, 0.2324, 0.3288
Android (android.graphics.Color)	4282574052 (0xFF42E4E4)
YUV	179.5620, 23.8799, -99.5939
Hunter-Lab	78.8965, -38.5346, -7.2175

# Details

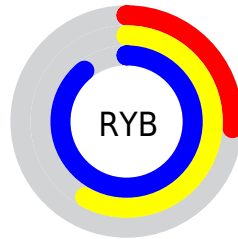
The XYZ color **43.9938, 62.2465, 83.0948** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **34.9286, 20.7858, 7.3275**, and the grayscale version is **43.0636, 45.3063, 49.3385**.

A 20% lighter version of the original color is **64.1265, 84.0584, 107.4528**, and **22.2953, 32.5222, 44.6375** is the 20% darker color. If you saturate the color by 10%, you get **42.7532, 61.6083, 83.0380**, and if you desaturate by 10%, it is **45.8500, 63.2048, 83.1833**.

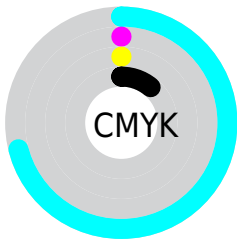
# Distribution



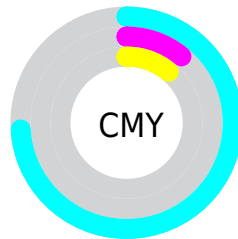
- Red (26%)
- Green (89%)
- Blue (89%)



- Red (26%)
- Yellow (58%)
- Blue (89%)



- Cyan (71%)
- Magenta (0%)
- Yellow (0%)
- Black (11%)




- Cyan (74%)
- Magenta (11%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 43.9938, 62.2465, 83.0948 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 43.9938, 62.2465, 83.0948 by changing the saturation by 10% instead.





 43.9938, 62.2465,  
83.0948


 43.9938, 62.2465,  
83.0948


353.5356,  
432.8297, 525.2817


 30.8635, 45.2319,  
61.7273


 80.4548, 108.0817,  
139.5586


 20.6463, 31.6401,  
44.3780


 104.5163,  
137.6711, 175.4921

 12.9767, 21.0868,  
30.6284


 132.9522,  
172.2209, 217.1179

 7.4894, 13.1874,  
20.0600

 166.1278,  
212.1155, 264.8546

 3.8190, 7.5578,  
12.2541

204.4087,  
257.7393, 319.1208

 1.6003, 3.8133,  
6.7924

248.1600,

 0.3926, 1.5697,

309.4766, 380.3351

3.2561

297.7472,  
367.7120, 448.9158

■ 0.0000, 0.3370,  
1.2269

■ 0.0000, 0.0000,  
0.0007

■ 43.9938, 62.2465,  
83.0948

■ 43.9938, 62.2465,  
83.0948

■ 42.7532, 61.6083,  
83.0380

■ 45.8500, 63.2048,  
83.1833


■ 42.0450, 61.2432,  
83.0046


■ 48.3811, 64.5096,  
83.3019


■ 41.7480, 61.0901,  
82.9905


■ 51.6457, 66.1925,  
83.4549


■ 55.6945, 68.2798,  
83.6446

 60.5738, 70.7952,  
83.8731

 66.3262, 73.7606,  
84.1425

 72.9915, 77.1967,  
84.4546

 80.6069, 81.1226,  
84.8112

 82.9885, 82.3503,  
84.9229

# Harmonies

## Analogous

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



43.7816, 62.2465, 56.8937



43.9938, 62.2465, 83.0948



47.9923, 62.2465, 110.9082

# Triad

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



43.9938, 62.2465, 83.0948



72.7552, 62.2465, 108.1180



63.2788, 62.2465, 29.9015

# Complementary

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



43.9938, 62.2465, 83.0948



34.9286, 20.7858, 7.3275

# 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.



71.9461, 62.2465, 37.5873



43.9938, 62.2465, 83.0948



77.7822, 62.2465, 79.9641

# Square

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



43.9938, 62.2465, 83.0948



64.2950, 62.2465, 127.6912



77.4718, 62.2465, 54.4658



54.3124, 62.2465, 30.3334



# Rectangle

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



43.9938, 62.2465, 83.0948



52.5232, 62.2465, 124.6697



77.4718, 62.2465, 54.4658



66.3410, 62.2465, 31.5167

# Sweetspot

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



43.9957, 62.2488, 83.0963



78.0185, 91.2199, 108.1024



31.1619, 57.1368, 14.5422



16.3020, 19.3201, 23.1198



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.



43.9957, 62.2488, 83.0963



54.6182, 79.1567, 107.0057



27.1113, 28.4797, 77.4695



14.8075, 16.3364, 18.5171



24.1060, 35.2745, 47.9202



1.7814, 2.6067, 3.5411



# Inverse Universe

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



34.9286, 20.7858, 7.3275



42.2951, 22.8038, 4.0275



42.9996, 36.9279, 10.0175



14.3771, 14.3680, 14.9200



18.4751, 9.5242, 0.8647

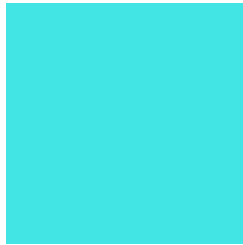


1.3652, 0.7038, 0.0639



# Previews

## White Background



This preview shows how the XYZ color 43.9938, 62.2465, 83.0948 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

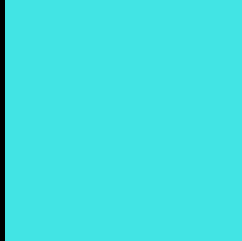
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 43.9938, 62.2465, 83.0948 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

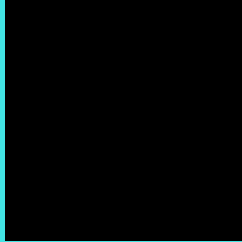
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

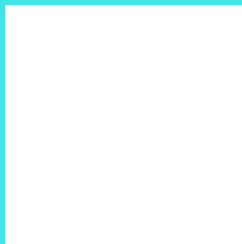
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 43.9938, 62.2465, 83.0948**

## **Background**



This preview shows how black text looks on a background with the XYZ color 43.9938, 62.2465, 83.0948.



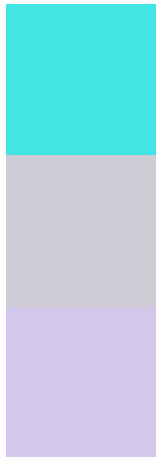
This preview shows how white text looks on a background with the XYZ color 43.9938, 62.2465,



# 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

43.9938, 62.2465, 83.0948

### Protanopia

59.0567, 61.1116, 71.6339

### Deuteranopia

62.3695, 61.0980, 86.3478



## Tritanopia

46.5060, 62.4609, 95.1930

# Trichromacy



## Original Color

43.9938, 62.2465, 83.0948



## Protanomaly

49.9667, 59.6190, 75.2038



## Deuteranomaly

51.7126, 59.1885, 85.0429



## Tritanomaly

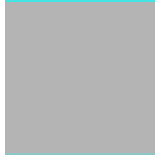
45.5742, 62.4889, 90.5485

# Monochromacy



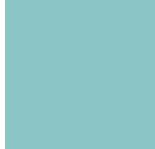
## Original Color

43.9938, 62.2465, 83.0948



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

40.6918, 49.4527, 60.2240

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 43.9938, 62.2465, 83.0948 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(66, 228, 228)` looks like.

```
.text, #text, p{  
    color:rgb(66, 228, 228)  
}
```

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(66, 228, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 228, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 43.9938, 62.2465, 83.0948 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(66, 228, 228) }
```



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

```
.border{ border-color:rgb(66, 228, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 228, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 228, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 228, 228);  
box-shadow:4px 4px 4px 4px rgb(66, 228,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 43.9938, 62.2465, 83.0948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 228, 228) }
```

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

```
.background{ background-color: rgb(66, 228,  
228) }
```

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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