

# Converting Colors

XYZ(39.8004, 63.5694, 50.2655)

Have a look what the booklet for  
XYZ(39.8004, 63.5694, 50.2655)  
contains.

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# Color

**XYZ(39.8741, 63.7747,  
50.2526)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46EBAE
RGB	70, 235, 174
RGB Percent	27%, 92%, 68%
CMY	0.7255, 0.0784, 0.3176
CMYK	0.70, 0.00, 0.26, 0.08
HSL	158°, 80%, 60%
HSV	158°, 70%, 92%
XYZ	39.8741, 63.7747, 50.2526
YIQ	178.7110, -78.7590, -53.9510

# Conversions

## Conversions Part 2

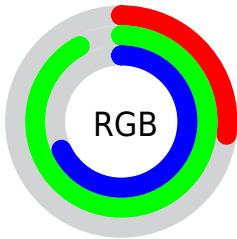
Format	Color
<a href="#">RYB</a>	<a href="#">70, 171, 235</a>
Decimal	<a href="#">4647854</a>
CIELab	<a href="#">83.85, -56.08, 17.59</a>
CIELCh	<a href="#">84, 58.775, 162.583</a>
Yxy	<a href="#">63.7747, 0.2591, 0.4144</a>
Android (android.graphics.Color)	<a href="#">4282837934 (0xFF46EBAE)</a>
YUV	<a href="#">178.7110, -2.3225, -95.3395</a>
Hunter-Lab	<a href="#">79.8591, -50.6273, 18.5922</a>

# Details

The XYZ color **39.8741, 63.7747, 50.2526** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted spring green. A complement of this color would be **40.5500, 23.6827, 23.9093**, and the grayscale version is **42.7376, 44.9633, 48.9650**.

A 20% lighter version of the original color is **60.5242, 82.6364, 87.6234**, and **19.3716, 33.2213, 23.4805** is the 20% darker color. If you saturate the color by 10%, you get **37.6792, 62.7396, 45.8713**, and if you desaturate by 10%, it is **42.7901, 65.1785, 54.9565**.

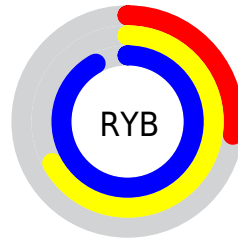
# Distribution



Red (27%)

Green (92%)

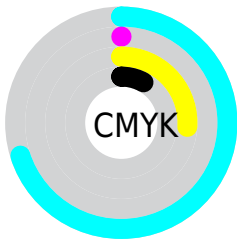
Blue (68%)



Red (27%)

Yellow (67%)

Blue (92%)

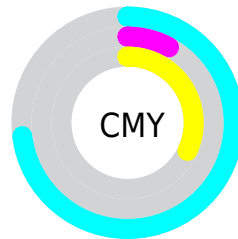


Cyan (70%)

Magenta (0%)

Yellow (26%)

Black (8%)



Cyan (73%)

Magenta (8%)

Yellow (32%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.8741, 63.7747, 50.2526 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 39.8741, 63.7747, 50.2526 by changing the saturation by 10% instead.





 39.8741, 63.7747,  
50.2526


 39.8741, 63.7747,  
50.2526


336.7362,  
438.3756, 404.4163


 27.6242, 46.4682,  
35.2416


 74.2573, 110.2864,  
91.9492

 18.1815, 32.6155,  
23.5640


 97.1213, 140.2604,  
119.4718

 11.1809, 21.8320,  
14.8013


 124.2541,  
175.2257, 152.0020

 6.2568, 13.7335,  
8.5350

 156.0209,  
215.5667, 189.9584

 3.0440, 7.9356,  
4.3465

192.7871,  
261.6678, 233.7595

 1.1771, 4.0537,  
1.8173

234.9182,

 0.0882, 1.7037,

313.9134, 283.8238

0.4393

282.7794,  
372.6879, 340.5699

■ 0.0000, 0.4260,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 39.8741, 63.7747,  
50.2526

■ 39.8741, 63.7747,  
50.2526

■ 37.6792, 62.7396,  
45.8713

■ 42.7901, 65.1785,  
54.9565


■ 36.1168, 62.0226,  
41.7989


■ 46.4921, 66.9795,  
59.9871

■ 35.0643, 61.5608,  
38.1013


■ 51.0434, 69.2117,  
65.3537


■ 56.4991, 71.9035,  
71.0640

 62.9096, 75.0807,  
77.1251

 70.3213, 78.7672,  
83.5440

 78.7777, 82.9852,  
90.3272

 87.2041, 87.1807,  
97.4290

 88.5514, 87.7196,  
104.5239

# Harmonies

## Analogous

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



45.3169, 63.7747, 29.1335



39.8741, 63.7747, 50.2526



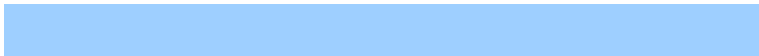
39.4655, 63.7747, 86.1151

# Triad

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



39.8741, 63.7747, 50.2526



66.1887, 63.7747, 164.5525



80.8013, 63.7747, 31.5760

# Complementary

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



39.8741, 63.7747, 50.2526



40.5500, 23.6827, 23.9093

# 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.



88.2273, 63.7747, 55.0694



39.8741, 63.7747, 50.2526



79.0206, 63.7747, 136.0742

# Square

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



39.8741, 63.7747, 50.2526



53.4823, 63.7747, 161.8082



87.5329, 63.7747, 92.9781



68.3573, 63.7747, 21.2842



# Rectangle

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



39.8741, 63.7747, 50.2526



42.0061, 63.7747, 115.2142



87.5329, 63.7747, 92.9781



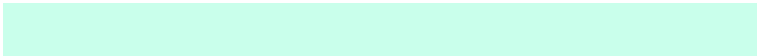
84.0415, 63.7747, 37.7492

# Sweetspot

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



39.8758, 63.7772, 50.2541



74.9932, 90.0098, 92.1714



40.5283, 64.8684, 16.1801



15.5745, 19.0291, 19.2885



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.



39.8758, 63.7772, 50.2541



44.4840, 75.1143, 53.1287



42.0150, 56.2865, 87.2501



15.2678, 17.0219, 18.0928



19.5778, 34.2856, 21.5395



1.5835, 2.7107, 1.9344



# Inverse Universe

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



40.5500, 23.6827, 23.9093



45.4157, 24.1880, 20.0419



38.9616, 25.2924, 8.6237



15.2957, 15.1461, 16.8426



20.0790, 10.2343, 6.2173

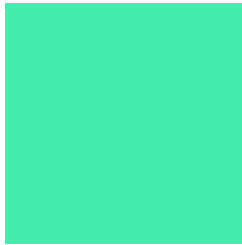


1.6218, 0.8217, 0.7256



# Previews

## White Background



This preview shows how the XYZ color 39.8741, 63.7747, 50.2526 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 39.8741, 63.7747, 50.2526 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

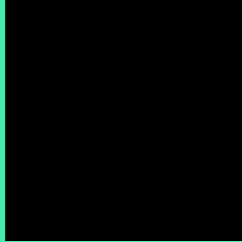
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

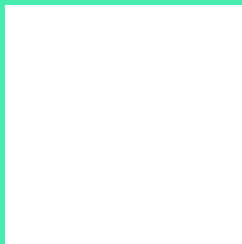
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.8741, 63.7747, 50.2526**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.8741, 63.7747, 50.2526.



This preview shows how white text looks on a background with the XYZ color 39.8741, 63.7747,



# 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

39.8741, 63.7747, 50.2526

### Protanopia

58.5646, 62.5710, 42.7089

### Deuteranopia

63.6898, 62.5188, 52.9665



## **Tritanopia**

48.7810, 63.6337, 95.2995

# Trichromacy



## Original Color

39.8741, 63.7747, 50.2526



## Protanomaly

47.4217, 60.4859, 45.2519



## Deuteranomaly

49.8354, 60.0733, 51.6165



## Tritanomaly

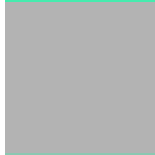
44.9253, 63.2769, 76.8637

# Monochromacy



## Original Color

39.8741, 63.7747, 50.2526



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

39.0067, 49.5101, 49.0955

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.8741, 63.7747, 50.2526 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(70, 235, 174)` looks like.

```
.text, #text, p{  
    color:rgb(70, 235, 174)  
}
```

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(70, 235, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 235, 174) }
```

## Border

The CSS property to change the border of an element to XYZ 39.8741, 63.7747, 50.2526 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(70, 235, 174) }
```



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

```
.border{ border-color:rgb(70, 235, 174) }
```

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

Here you see how a box with a 4 pixel rgb(70, 235, 174) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 235, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 235, 174);  
box-shadow:4px 4px 4px 4px rgb(70, 235,  
174) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.8741, 63.7747, 50.2526 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 235, 174) }
```

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

```
.background{ background-color: rgb(70, 235,  
174) }
```

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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