

# Converting Colors

XYZ(38.7851, 51.5317, 63.7833)

Have a look what the booklet for  
XYZ(38.7851, 51.5317, 63.7833)  
contains.

|  |    |
|--|----|
| <b>XYZ(38.7954, 51.5327, 63.7792)</b> .....    | 3  |
| <b><i>Conversions</i></b> .....                | 4  |
| <b><i>Details</i></b> .....                    | 6  |
| <b><i>Harmonies</i></b> .....                  | 12 |
| <b><i>Previews</i></b> .....                   | 24 |
| <b><i>Color Blindness Simulation</i></b> ..... | 28 |
| <b><i>CSS Examples</i></b> .....               | 31 |

# Color

**XYZ(38.7954, 51.5327,  
63.7792)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 6BCECA                       |
| RGB         | 107, 206, 202                |
| RGB Percent | 42%, 81%, 79%                |
| CMY         | 0.5804, 0.1921, 0.2078       |
| CMYK        | 0.48, 0.00, 0.02, 0.19       |
| HSL         | 178°, 50%, 61%               |
| HSV         | 178°, 48%, 81%               |
| XYZ         | 38.7954, 51.5327, 63.7792    |
| YIQ         | 175.9430, -57.7200, -22.2320 |

# Conversions

## Conversions Part 2

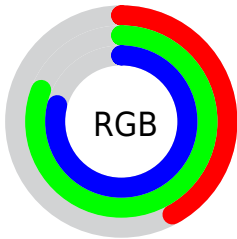
| Format                              | Color   |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">107, 158, 206</a>                   |
| Decimal                             | <a href="#">7065290</a>                         |
| CIELab                              | <a href="#">77.00, -29.97, -7.00</a>            |
| CIELCh                              | <a href="#">77, 30.775, 193.138</a>             |
| Yxy                                 | <a href="#">51.5327, 0.2517,<br/>0.3344</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4285255370<br/>(0xFF6BCECA)</a>     |
| YUV                                 | <a href="#">175.9430, 12.8461,<br/>-60.4630</a> |
| Hunter-Lab                          | <a href="#">71.7863, -29.1594,<br/>-2.4264</a>  |

# Details

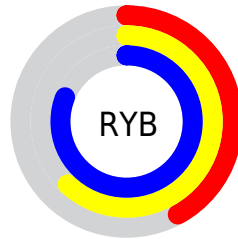
The XYZ color **38.7954, 51.5327, 63.7792** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **33.5823, 24.7864, 18.0551**, and the grayscale version is **41.1952, 43.3406, 47.1979**.

A 20% lighter version of the original color is **69.3270, 86.7393, 107.6962**, and **17.4941, 24.8292, 31.8875** is the 20% darker color. If you saturate the color by 10%, you get **36.5097, 50.3670, 63.1600**, and if you desaturate by 10%, it is **41.6746, 53.0068, 64.4312**.

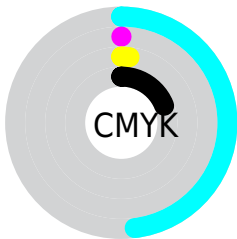
# Distribution



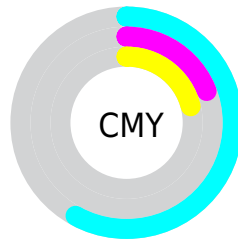
- Red (42%)
- Green (81%)
- Blue (79%)



- Red (42%)
- Yellow (62%)
- Blue (81%)



- Cyan (48%)
- Magenta (0%)
- Yellow (2%)
- Black (19%)




- Cyan (58%)
- Magenta (19%)
- Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7954, 51.5327, 63.7792 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 38.7954, 51.5327, 63.7792 by changing the saturation by 10% instead.





 38.7954, 51.5327,  
63.7792


 38.7954, 51.5327,  
63.7792


332.2420,  
392.6299, 456.5774


 26.7806, 36.6327,  
46.0268


 72.6217, 92.4417,  
111.8893

 17.5443, 24.9233,  
31.9182


 95.1640, 119.2195,  
143.0841

 10.7210, 16.0199,  
21.0347


 121.9461,  
150.7254, 179.5968

 5.9454, 9.5382,  
12.9579

153.3334,  
187.3438, 221.8459

 2.8523, 5.0939,  
7.2692

189.6913,  
229.4591, 270.2500

 1.0761, 2.3025,  
3.5500

231.3851,

 0.0050, 0.7750,

277.4556, 325.2276

1.3819

278.7802,  
331.7177, 387.1972

■ 0.0000, 0.0000,  
0.1275

■ 0.0000, 0.0000,  
0.0000

■ 38.7954, 51.5327,  
63.7792

■ 38.7954, 51.5327,  
63.7792

■ 36.5097, 50.3670,  
63.1600

■ 41.6746, 53.0068,  
64.4312

■ 34.7704, 49.4816,  
62.5680


■ 45.1812, 54.8030,  
65.1143


■ 33.5306, 48.8537,  
62.0021


■ 49.3518, 56.9415,  
65.8312


■ 32.7339, 48.4542,  
61.4597

■ 54.2189, 59.4389,  
66.5835


 32.2966, 48.2399,  
60.9370


 59.8129, 62.3111,  
67.3726

 32.2278, 48.2066,  
60.8365

 66.1625, 65.5727,  
68.1999

 73.2947, 69.2377,  
69.0666

 74.7792, 69.9911,  
69.6718

 74.8823, 70.0324,  
70.2152

# Harmonies

## Analogous

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



38.9580, 51.5327, 47.2511



38.7954, 51.5327, 63.7792



41.2010, 51.5327, 81.2274

# Triad

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



38.7954, 51.5327, 63.7792



57.1059, 51.5327, 83.1416



52.3259, 51.5327, 30.5228

# Complementary

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



38.7954, 51.5327, 63.7792



33.5823, 24.7864, 18.0551

# 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.



57.6819, 51.5327, 36.7916



38.7954, 51.5327, 63.7792



60.5890, 51.5327, 66.0130

# Square

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



38.7954, 51.5327, 63.7792



51.5895, 51.5327, 93.8196



60.8078, 51.5327, 49.0823



46.4605, 51.5327, 30.1622



# Rectangle

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



38.7954, 51.5327, 63.7792



44.0579, 51.5327, 90.1491



60.8078, 51.5327, 49.0823



54.2563, 51.5327, 31.9416

# Sweetspot

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



38.7969, 51.5347, 63.7804



82.8822, 93.7540, 107.1222



31.4025, 48.6477, 21.6460



17.3835, 19.8842, 22.8722



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.



38.7969, 51.5347, 63.7804



58.9376, 81.4929, 102.2632



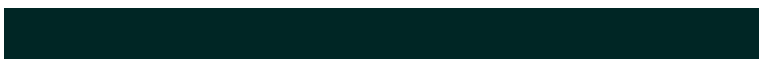
30.0293, 33.2311, 63.2263



11.5229, 12.7189, 14.3111



19.8531, 29.6866, 37.5072



1.0304, 1.5340, 1.9678



# Inverse Universe

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



33.5823, 24.7864, 18.0551



49.4932, 32.9903, 19.4052



39.2646, 36.4959, 18.8861



11.2304, 11.2209, 11.7479



15.7102, 8.0947, 0.9268

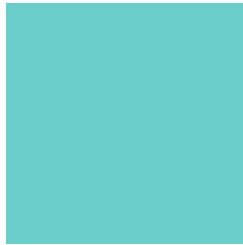


0.8170, 0.4202, 0.0825



# Previews

## White Background



This preview shows how the XYZ color 38.7954, 51.5327, 63.7792 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

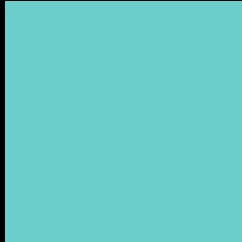
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.7954, 51.5327, 63.7792 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

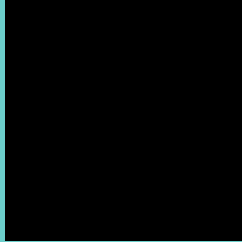
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.7954, 51.5327, 63.7792**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7954, 51.5327, 63.7792.



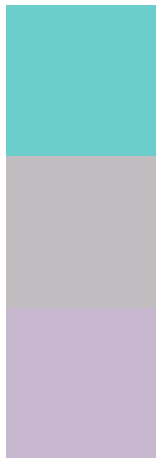
This preview shows how white text looks on a background with the XYZ color 38.7954, 51.5327,



# 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

38.7954, 51.5327, 63.7792

### Protanopia

49.1254, 50.9345, 56.5324

### Deuteranopia

51.9562, 50.9281, 66.1232



## Tritanopia

41.0843, 51.3899, 75.4640

# Trichromacy



## Original Color

38.7954, 51.5327, 63.7792

## Protanomaly

44.0634, 50.5474, 59.0640

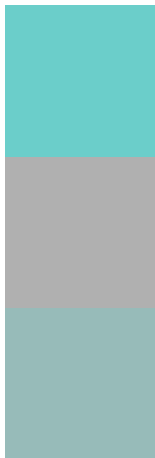
## Deuteranomaly

45.5950, 50.2140, 65.0468

## Tritanomaly

40.1587, 51.3693, 70.7495

# Monochromacy



## Original Color

38.7954, 51.5327, 63.7792

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

39.2898, 45.6227, 52.6342

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7954, 51.5327, 63.7792 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(107, 206, 202)` looks like.

```
.text, #text, p{  
    color:rgb(107, 206, 202)  
}
```

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(107, 206, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 206, 202) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7954, 51.5327, 63.7792 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(107, 206, 202) }
```



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

```
.border{ border-color:rgb(107, 206, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 206, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 206, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 206, 202);  
box-shadow:4px 4px 4px 4px rgb(107, 206,  
202) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7954, 51.5327, 63.7792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 206, 202) }
```

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

```
.background{ background-color: rgb(107,  
206, 202) }
```

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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