

# Converting Colors

XYZ(36.9574, 53.1599, 63.4877)

Have a look what the booklet for  
XYZ(36.9574, 53.1599, 63.4877)  
contains.

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# Color

**XYZ(37.0094, 53.1833,  
63.5731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48D5C9
RGB	72, 213, 201
RGB Percent	28%, 84%, 79%
CMY	0.7176, 0.1647, 0.2118
CMYK	0.66, 0.00, 0.06, 0.16
HSL	175°, 63%, 56%
HSV	175°, 66%, 84%
XYZ	37.0094, 53.1833, 63.5731
YIQ	169.4730, -80.1840, -33.6240

# Conversions

## Conversions Part 2

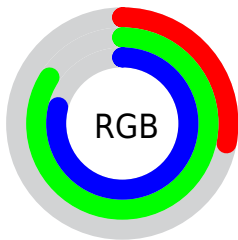
Format	Color
<a href="#">RYB</a>	<a href="#">72, 146, 213</a>
Decimal	<a href="#">4773321</a>
CIELab	<a href="#">77.98, -39.99, -5.12</a>
CIELCh	<a href="#">78, 40.313, 187.298</a>
Yxy	<a href="#">53.1833, 0.2407, 0.3459</a>
Android (android.graphics.Color)	<a href="#">4282963401</a> ( <a href="#">0xFF48D5C9</a> )
YUV	<a href="#">169.4730, 15.5428, -85.4838</a>
Hunter-Lab	<a href="#">72.9269, -37.0357, -0.6365</a>

# Details

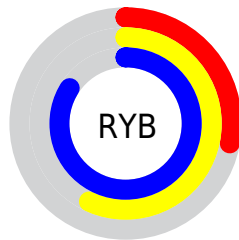
The XYZ color **37.0094, 53.1833, 63.5731** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **31.3600, 19.4226, 10.4856**, and the grayscale version is **37.9020, 39.8759, 43.4248**.

A 20% lighter version of the original color is **64.1265, 84.0584, 107.4528**, and **17.4933, 26.5603, 31.8084** is the 20% darker color. If you saturate the color by 10%, you get **35.4763, 52.4187, 62.3956**, and if you desaturate by 10%, it is **39.0980, 54.2364, 64.7921**.

# Distribution



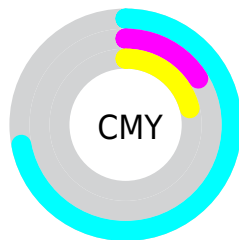
- Red (28%)
- Green (84%)
- Blue (79%)



- Red (28%)
- Yellow (57%)
- Blue (84%)



- Cyan (66%)
- Magenta (0%)
- Yellow (6%)
- Black (16%)



- Cyan (72%)
- Magenta (16%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0094, 53.1833, 63.5731 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 37.0094, 53.1833, 63.5731 by changing the saturation by 10% instead.



37.0094, 53.1833,  
63.5731

37.0094, 53.1833,  
63.5731

324.7060,  
398.9880, 455.8115

25.3885, 37.9491,  
45.8610

69.9010, 94.8740,  
111.5894

16.4970, 25.9432,  
31.7883

91.9023, 122.0994,  
142.7308

9.9696, 16.7812,  
20.9364

118.0946,  
154.0906, 179.1857

5.4409, 10.0786,  
12.8867

148.8430,  
191.2320, 221.3726

2.5456, 5.4511,  
7.2208

184.5130,  
233.9081, 269.7101

0.9183, 2.5143,  
3.5200

225.4700,

0.0000, 0.8838,

282.5031, 324.6167

1.3659

272.0792,  
337.4016, 386.5110

■ 0.0000, 0.0000,  
0.1149

■ 0.0000, 0.0000,  
0.0000

■ 37.0094, 53.1833,  
63.5731

■ 37.0094, 53.1833,  
63.5731

■ 35.4763, 52.4187,  
62.3956

■ 39.0980, 54.2364,  
64.7921

■ 34.4345, 51.9058,  
61.2529


■ 41.7885, 55.5984,  
66.0514


■ 33.8106, 51.6081,  
60.1429


■ 45.1279, 57.2945,  
67.3542


■ 33.6310, 51.5245,  
59.7266


■ 49.1570, 59.3459,  
68.7026

 53.9136, 61.7721,  
70.0983

 59.4323, 64.5908,  
71.5431

 65.7459, 67.8191,  
73.0385

 72.8851, 71.4726,  
74.5859

 77.6011, 73.8766,  
76.0335

# Harmonies

## Analogous

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



37.8664, 53.1833, 42.7780



37.0094, 53.1833, 63.5731



39.4697, 53.1833, 88.2432

# Triad

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



37.0094, 53.1833, 63.5731



60.2561, 53.1833, 99.5411



56.5998, 53.1833, 26.4874

# Complementary

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



37.0094, 53.1833, 63.5731



31.3600, 19.4226, 10.4856

# 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.



63.5292, 53.1833, 35.4681



37.0094, 53.1833, 63.5731



65.7880, 53.1833, 76.2402

# Square

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



37.0094, 53.1833, 63.5731



52.4905, 53.1833, 112.2254



67.0439, 53.1833, 52.5891



48.6562, 53.1833, 24.7471



# Rectangle

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



37.0094, 53.1833, 63.5731



42.8265, 53.1833, 102.4212



67.0439, 53.1833, 52.5891



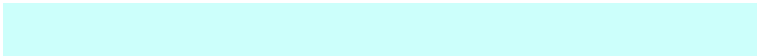
59.1485, 53.1833, 28.6214

# Sweetspot

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



37.0110, 53.1853, 63.5744



78.0207, 91.3009, 104.4957



28.8127, 50.0417, 14.2727



16.2682, 19.3221, 22.2391



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.



37.0110, 53.1853, 63.5744



52.6682, 78.4562, 93.1427



26.6740, 30.1628, 67.3692



12.7445, 14.0888, 15.7348



20.5614, 31.4799, 36.5814



1.2539, 1.9042, 2.2788



# Inverse Universe

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



31.3600, 19.4226, 10.4856



43.6660, 24.3077, 8.3009



36.3838, 30.1591, 10.0359



12.4657, 12.4378, 13.1269



16.8449, 8.6743, 1.2215

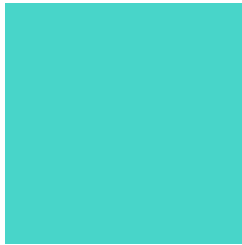


1.0312, 0.5293, 0.1538



# Previews

## White Background



This preview shows how the XYZ color 37.0094, 53.1833, 63.5731 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

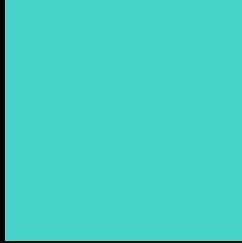
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.0094, 53.1833, 63.5731 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

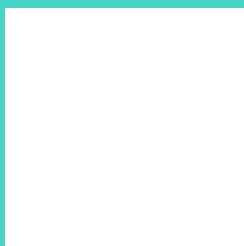
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.0094, 53.1833, 63.5731

## Background



This preview shows how black text looks on a background with the XYZ color 37.0094, 53.1833, 63.5731.



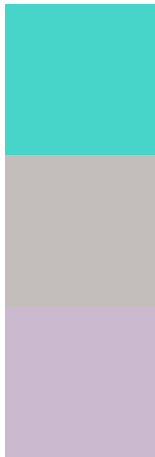
This preview shows how white text looks on a background with the XYZ color 37.0094, 53.1833,



# 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

37.0094, 53.1833, 63.5731

### Protanopia

49.9962, 52.0599, 54.9904

### Deuteranopia

53.4500, 52.3193, 66.3130



## Tritanopia

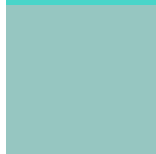
40.1841, 52.9767, 80.0591

# Trichromacy



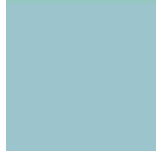
## Original Color

37.0094, 53.1833, 63.5731



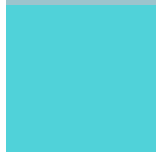
## Protanomaly

42.3974, 50.7225, 58.0079



## Deuteranomaly

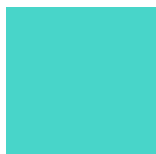
44.2769, 50.8562, 65.2402



## Tritanomaly

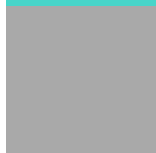
38.8792, 52.8084, 73.7895

# Monochromacy



## Original Color

37.0094, 53.1833, 63.5731



## Achromatopsia

37.7116, 39.6755, 43.2066



## Achromatomaly

35.5210, 43.1025, 50.1635

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0094, 53.1833, 63.5731 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(72, 213, 201)` looks like.

```
.text, #text, p{  
    color:rgb(72, 213, 201)  
}
```

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(72, 213, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 213, 201) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0094, 53.1833, 63.5731 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(72, 213, 201) }
```



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

```
.border{ border-color:rgb(72, 213, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 213, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 213, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 213, 201);  
box-shadow:4px 4px 4px 4px rgb(72, 213,  
201) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0094, 53.1833, 63.5731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 213, 201) }
```

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

```
.background{ background-color: rgb(72, 213,  
201) }
```

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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