

# Converting Colors

XYZ(23.5042, 35.1777, 38.3332)

Have a look what the booklet for  
XYZ(23.5042, 35.1777, 38.3332)  
contains.

<b>XYZ(23.5970, 35.3718, 38.3846)</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(23.5970, 35.3718,  
38.3846)**

# Conversions

## Conversions Part 1

Format	Color
Hex	30B39F
RGB	48, 179, 159
RGB Percent	19%, 70%, 62%
CMY	0.8117, 0.2980, 0.3765
CMYK	0.73, 0.00, 0.11, 0.30
HSL	171°, 58%, 45%
HSV	171°, 73%, 70%
XYZ	23.5970, 35.3718, 38.3846
YIQ	137.5510, -71.6560, -33.9920

# Conversions

## Conversions Part 2

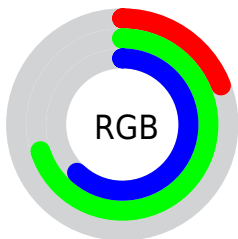
<b>Format</b>	<b>Color</b>
<b>RYB</b>	48, 119, 179
Decimal	3191711
CIELab	66.04, -39.36, 0.16
CIElCh	66, 39.358, 179.769
Yxy	35.3718, 0.2424, 0.3633
Android (android.graphics.Color)	4281381791 (0xFF30B39F)
YUV	137.5510, 10.5744, -78.5362
Hunter-Lab	59.4742, -33.2581, 3.3662

# Details

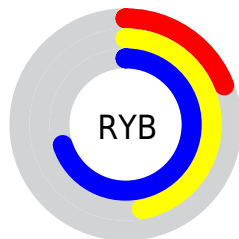
The XYZ color **23.5970, 35.3718, 38.3846** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **20.6919, 12.1159, 6.7181**, and the grayscale version is **23.9683, 25.2165, 27.4608**.

A 20% lighter version of the original color is **48.7854, 67.8491, 74.1433**, and **10.0404, 15.7499, 16.6982** is the 20% darker color. If you saturate the color by 10%, you get **22.6827, 34.9284, 37.1180**, and if you desaturate by 10%, it is **24.8591, 35.9956, 39.6964**.

# Distribution



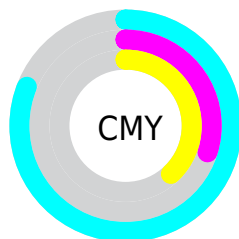
- Red (19%)
- Green (70%)
- Blue (62%)



- Red (19%)
- Yellow (47%)
- Blue (70%)



- Cyan (73%)
- Magenta (0%)
- Yellow (11%)
- Black (30%)




- Cyan (81%)
- Magenta (30%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.5970, 35.3718, 38.3846 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 23.5970, 35.3718, 38.3846 by changing the saturation by 10% instead.





 23.5970, 35.3718,  
38.3846


 23.5970, 35.3718,  
38.3846


263.2551,  
326.2064, 354.6145


 15.1581, 23.9494,  
25.9772


 48.8312, 68.0613,  
73.9072


 9.0174, 15.2961,  
16.5810


 66.3572, 90.0973,  
97.8595


 4.8098, 9.0275,  
9.7774


 87.6430, 116.4399,  
126.4971

 2.1697, 4.7591,  
5.1479

 113.0538,  
147.4735, 160.2386

 0.7267, 2.1066,  
2.2741

 142.9551,  
183.5826, 199.5025

 0.0000, 0.6683,  
0.7166

177.7122,

 0.0000, 0.0000,

225.1515, 244.7075

0.0000

217.6904,  
272.5647, 296.2719

■ 23.5970, 35.3718,  
38.3846

■ 23.5970, 35.3718,  
38.3846

■ 22.6827, 34.9284,  
37.1180

■ 24.8591, 35.9956,  
39.6964

■ 22.0693, 34.6387,  
35.8919

■ 26.5027, 36.8146,  
41.0529

■ 21.7613, 34.4976,  
35.0766

■ 28.5606, 37.8465,  
42.4564

■ 31.0615, 39.1062,  
43.9086

■ 34.0312, 40.6070,  
45.4108

■ 37.4939, 42.3613,  
46.9643

■ 41.4717, 44.3805,  
48.5702

■ 45.9858, 46.6755,  
50.2299

■ 51.0557, 49.2565,  
51.9442

# Harmonies

## Analogous

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



24.8233, 35.3718, 24.4885



23.5970, 35.3718, 38.3846



24.7864, 35.3718, 56.7840

# Triad

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



23.5970, 35.3718, 38.3846



39.5074, 35.3718, 73.7051



39.5946, 35.3718, 16.8788

# Complementary

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



23.5970, 35.3718, 38.3846



20.6919, 12.1159, 6.7181

# 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.



44.3362, 35.3718, 24.6547



23.5970, 35.3718, 38.3846



44.2819, 35.3718, 57.0748

# Square

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



23.5970, 35.3718, 38.3846



33.5747, 35.3718, 80.4400



46.1416, 35.3718, 38.6434



33.6650, 35.3718, 14.4799



# Rectangle

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



23.5970, 35.3718, 38.3846



26.8780, 35.3718, 68.6429



46.1416, 35.3718, 38.6434



41.4041, 35.3718, 18.8136

# Sweetspot

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



23.5980, 35.3732, 38.3854



61.4157, 72.9607, 81.5484



19.1685, 33.7509, 8.3012



13.2689, 15.9936, 17.9054



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



23.5980, 35.3732, 38.3854



39.8728, 62.1970, 65.0822



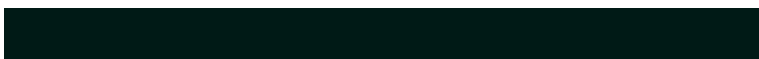
18.0673, 21.3055, 45.8095



8.6858, 9.6088, 10.6049



15.3963, 24.3845, 24.8874



0.4995, 0.7733, 0.8622



# Inverse Universe

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



20.6919, 12.1159, 6.7181



34.4966, 18.3034, 5.8559



22.9235, 17.3950, 4.9463



8.5475, 8.5257, 9.1156



13.2952, 6.8356, 1.4484

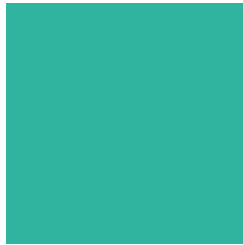


0.4347, 0.2216, 0.1317



# Previews

## White Background



This preview shows how the XYZ color 23.5970, 35.3718, 38.3846 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 23.5970, 35.3718, 38.3846 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

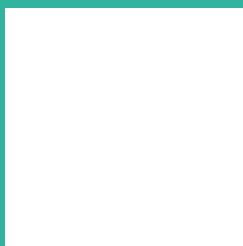
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 23.5970, 35.3718, 38.3846**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.5970, 35.3718, 38.3846.



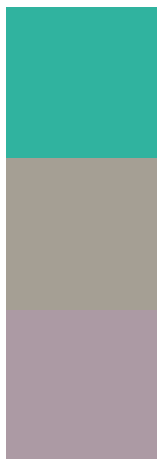
This preview shows how white text looks on a background with the XYZ color 23.5970, 35.3718,



# 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

23.5970, 35.3718, 38.3846

### Protanopia

33.2605, 34.9337, 33.0068

### Deuteranopia

35.2697, 34.5622, 39.9342



## Tritanopia

26.6953, 35.4579, 53.5812

# Trichromacy



## Original Color

23.5970, 35.3718, 38.3846



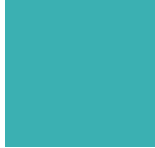
## Protanomaly

27.3298, 33.6770, 34.7656



## Deuteranomaly

28.3712, 33.3150, 39.1175



## Tritanomaly

25.3648, 35.1948, 47.5759

# Monochromacy



## Original Color

23.5970, 35.3718, 38.3846



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

22.4052, 27.8610, 31.3910

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.5970, 35.3718, 38.3846 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(48, 179, 159)` looks like.

```
.text, #text, p{  
    color:rgb(48, 179, 159)  
}
```

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(48, 179, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 179, 159) }
```

## Border

The CSS property to change the border of an element to XYZ 23.5970, 35.3718, 38.3846 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(48, 179, 159) }
```



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

```
.border{ border-color:rgb(48, 179, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 179, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 179, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 179, 159);  
box-shadow:4px 4px 4px 4px rgb(48, 179,  
159) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.5970, 35.3718, 38.3846 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 179, 159) }
```

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

```
.background{ background-color: rgb(48, 179,  
159) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor