

# Converting Colors

XYZ(34.0381, 39.5568, 79.9709)

Have a look what the booklet for  
XYZ(34.0381, 39.5568, 79.9709)  
contains.

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# Color

**XYZ(33.9937, 39.5242,  
79.9660)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57B2E5
RGB	87, 178, 229
RGB Percent	34%, 70%, 90%
CMY	0.6588, 0.3020, 0.1020
CMYK	0.62, 0.22, 0.00, 0.10
HSL	202°, 73%, 62%
HSV	202°, 62%, 90%
XYZ	33.9937, 39.5242, 79.9660
YIQ	156.6050, -70.6070, -3.4310

# Conversions

## Conversions Part 2

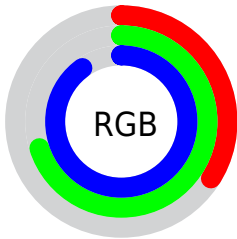
Format	Color
R <sub>Y</sub> B	87, 142, 229
Decimal	5747429
CIE Lab	69.13, -12.02, -33.67
CIE LCh	69, 35.752, 250.350
Yxy	39.5242, 0.2215, 0.2575
Android (android.graphics.Color)	4283937509 (0xFF57B2E5)
YUV	156.6050, 35.6907, -61.0436
Hunter-Lab	62.8683, -13.5022, -31.4068

# Details

The XYZ color **33.9937, 39.5242, 79.9660** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **43.1233, 35.5249, 13.6025**, and the grayscale version is **31.7397, 33.3926, 36.3645**.

A 20% lighter version of the original color is **59.6856, 72.3615, 105.4292**, and **14.8764, 17.6844, 42.1645** is the 20% darker color. If you saturate the color by 10%, you get **30.5974, 35.4170, 79.3530**, and if you desaturate by 10%, it is **38.1687, 44.1800, 80.6454**.

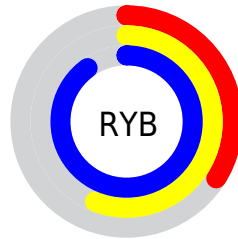
# Distribution



Red (34%)

Green (70%)

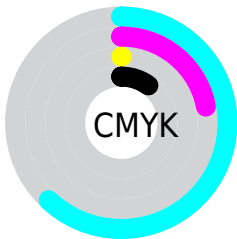
Blue (90%)



Red (34%)

Yellow (56%)

Blue (90%)

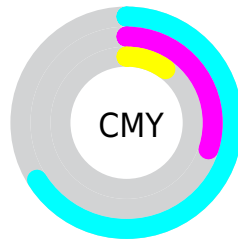


Cyan (62%)

Magenta (22%)

Yellow (0%)

Black (10%)



Cyan (66%)

Magenta (30%)

Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9937, 39.5242, 79.9660 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 33.9937, 39.5242, 79.9660 by changing the saturation by 10% instead.



■ 33.9937, 39.5242,  
79.9660

■ 33.9937, 39.5242,  
79.9660

311.6904,  
344.1140, 514.5220

■ 23.0516, 27.1678,  
59.1644

■ 65.2682, 74.4384,  
135.1289

■ 14.7525, 17.6993,  
42.3246

■ 86.3314, 97.7650,  
170.3272

■ 8.7311, 10.7343,  
29.0281

■ 111.4990,  
125.5171, 211.1616

■ 4.6219, 5.8885,  
18.8563

■ 141.1363,  
158.0791, 258.0504

■ 2.0596, 2.7774,  
11.3907

175.6087,  
195.8354, 311.4124

■ 0.6671, 1.0166,  
6.2128

215.2817,

■ 0.0000, 0.0000,

239.1704, 371.6659

2.9040

260.5204,  
288.4685, 439.2296

■ 0.0000, 0.0000,  
1.0458

■ 0.0000, 0.0000,  
0.0000

■ 33.9937, 39.5242,  
79.9660

■ 33.9937, 39.5242,  
79.9660

■ 30.5974, 35.4170,  
79.3530

■ 38.1687, 44.1800,  
80.6454

■ 27.9075, 31.8164,  
78.7998

■ 43.1780, 49.4132,  
81.3915

■ 25.8433, 28.6789,  
78.3030

■ 49.0765, 55.2554,  
82.2082

■ 24.5384, 26.4480,  
77.9412

■ 55.9127, 61.7339,  
83.0984

■ 63.7316, 68.8742,  
84.0645

■ 72.5752, 76.7002,  
85.1090

■ 82.4829, 85.2344,  
86.2341

■ 87.6738, 91.4988,  
87.1696

■ 90.2014, 96.5541,  
88.0122

# Harmonies

## Analogous

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



29.8041, 39.5242, 66.7768



33.9937, 39.5242, 79.9660



39.5742, 39.5242, 81.9771

# Triad

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



33.9937, 39.5242, 79.9660



49.4372, 39.5242, 37.6286



30.8960, 39.5242, 23.2421

# Complementary

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



33.9937, 39.5242, 79.9660



43.1233, 35.5249, 13.6025

# 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.



35.6280, 39.5242, 18.9195



33.9937, 39.5242, 79.9660



46.5719, 39.5242, 25.7160

# Square

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



33.9937, 39.5242, 79.9660



48.8860, 39.5242, 54.5001



41.3814, 39.5242, 19.6927



28.1450, 39.5242, 33.3026



# Rectangle

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



33.9937, 39.5242, 79.9660



43.3927, 39.5242, 76.2780



41.3814, 39.5242, 19.6927



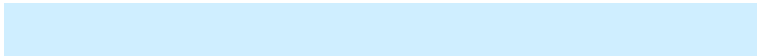
32.2868, 39.5242, 21.2015

# Sweetspot

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



33.9951, 39.5256, 79.9670



74.1144, 81.3364, 106.4010



36.4449, 59.8635, 33.1900



15.2769, 16.8668, 22.7004



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.



33.9951, 39.5256, 79.9670



38.1355, 44.0256, 101.0956



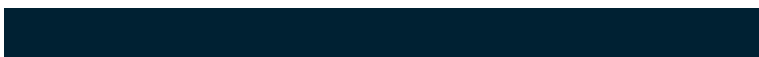
23.4690, 18.4736, 76.4583



14.3493, 15.4199, 18.3644



14.1476, 15.3573, 44.6018



1.1326, 1.3092, 3.3250



# Inverse Universe

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



43.7583, 26.6902, 44.9663



52.1997, 28.7892, 49.9467



56.5173, 62.3130, 18.0672



14.7639, 14.5227, 16.9570



21.5346, 10.7480, 16.9759



1.6353, 0.8118, 1.4862



# Previews

## White Background



This preview shows how the XYZ color 33.9937, 39.5242, 79.9660 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

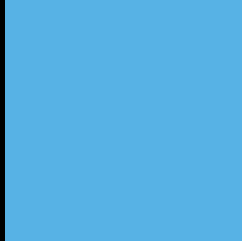
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.9937, 39.5242, 79.9660 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 33.9937, 39.5242, 79.9660**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9937, 39.5242, 79.9660.



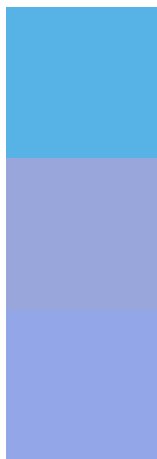
This preview shows how white text looks on a background with the XYZ color 33.9937, 39.5242,



# 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

33.9937, 39.5242, 79.9660

### Protanopia

39.6914, 39.2120, 73.1869

### Deuteranopia

40.2343, 39.3017, 81.8093



## Tritanopia

30.0060, 39.7359, 59.5144

# Trichromacy



**Original Color**

33.9937, 39.5242, 79.9660

**Protanomaly**

36.7473, 38.7443, 75.3536

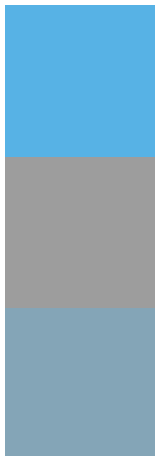
**Deuteranomaly**

37.2560, 38.8789, 81.1421

**Tritanomaly**

31.2971, 39.6371, 66.3228

# Monochromacy



**Original Color**

33.9937, 39.5242, 79.9660

**Achromatopsia**

32.0474, 33.7164, 36.7171

**Achromatomaly**

31.5181, 35.2347, 49.9395

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9937, 39.5242, 79.9660 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(87, 178, 229)` looks like.

```
.text, #text, p{  
    color:rgb(87, 178, 229)  
}
```

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(87, 178, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 178, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9937, 39.5242, 79.9660 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".

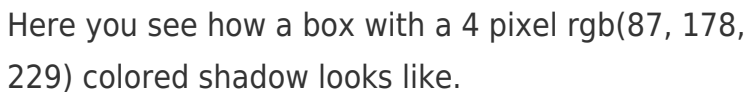
```
.border, #border, table{ border:4px solid rgb(87, 178, 229) }
```



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

```
.border{ border-color:rgb(87, 178, 229) }
```

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



Here you see how a box with a 4 pixel `rgb(87, 178, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 178, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 178, 229);  
box-shadow:4px 4px 4px 4px rgb(87, 178,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9937, 39.5242, 79.9660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 178, 229) }
```

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

```
.background{ background-color: rgb(87, 178,  
229) }
```

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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