

# Converting Colors

XYZ(89.0392, 73.1443, 8.6007)

Have a look what the booklet for  
XYZ(89.0392, 73.1443, 8.6007)  
contains.

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# Color

**XYZ(59.6535, 58.0869,  
8.0678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBE00
RGB	255, 190, 0
RGB Percent	100%, 75%, 0%
CMY	0.0000, 0.2549, 0.9999
CMYK	0.00, 0.25, 1.00, 0.00
HSL	45°, 100%, 50%
HSV	45°, 100%, 100%
XYZ	59.6535, 58.0869, 8.0678
YIQ	187.7750, 99.7300, -45.3100

# Conversions

## Conversions Part 2

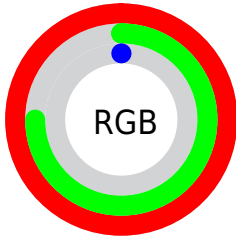
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	87, 255, 0
Decimal	16760320
CIE <sub>Lab</sub>	80.79, 10.91, 82.87
CIE <sub>LCh</sub>	81, 83.586, 82.503
Yxy	58.0869, 0.4742, 0.4617
Android (android.graphics.Color)	4294950400 (0xFFFFBE00)
YUV	187.7750, -92.5731, 58.9563
Hunter-Lab	76.2148, 6.3366, 47.0741

# Details

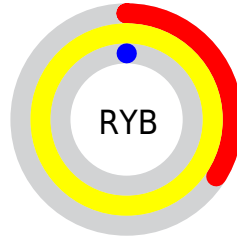
The XYZ color **59.6535, 58.0869, 8.0678** is a dark color, and the websafe version is hex **FFCC00**. The color can be described as middle saturated orange. A complement of this color would be **19.9412, 11.0022, 95.6797**, and the grayscale version is **48.1443, 50.6515, 55.1595**.

A 20% lighter version of the original color is **75.7960, 87.8116, 21.3420**, and **30.9380, 29.2288, 4.0111** is the 20% darker color. If you saturate the color by 10%, you get **59.6535, 58.0874, 8.0679**, and if you desaturate by 10%, it is **61.2753, 61.0411, 9.5020**.

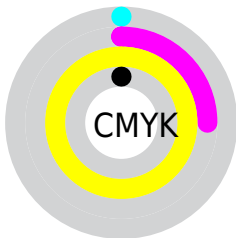
# Distribution



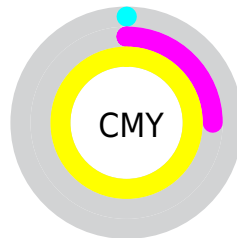
- Red (100%)
- Green (75%)
- Blue (0%)



- Red (34%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (25%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (25%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.6535, 58.0869, 8.0678 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 59.6535, 58.0869, 8.0678 by changing the saturation by 10% instead.




 59.6535, 58.0869,  
8.0678


 59.6535, 58.0869,  
8.0678


413.1746,  
417.5097, 186.2173

 43.3878, 41.8785,  
4.0500


 103.4361,  
102.0494, 22.6396

 30.3853, 29.0062,  
1.6528


 131.6836,  
130.5723, 34.0307

 20.2808, 19.0855,  
0.3281


 164.6559,  
163.9688, 48.7166

 12.7088, 11.7321,  
0.0000

 202.7182,  
202.6234, 67.1158

 7.3039, 6.5615,  
0.0000

 246.2358,  
246.9203, 89.6470

 3.7009, 3.1894,  
0.0000

 295.5742,

 1.5344, 1.2314,

297.2441, 116.7286

0.0000

351.0987,  
353.9791, 148.7791

■ 0.3490, 0.0871,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 59.6535, 58.0869,  
8.0678

■ 59.6535, 58.0869,  
8.0678

■ 59.6535, 58.0874,  
8.0679

■ 61.2753, 61.0411,  
9.5020

■ 63.1952, 64.2140,  
12.1982

■ 65.4873, 67.6387,  
16.5368

■ 68.1964, 71.3344,  
22.7503

71.3603, 75.3174,  
31.0336

75.0120, 79.6021,  
41.5571

79.1812, 84.2016,  
54.4732

83.8949, 89.1278,  
69.9212

89.1782, 94.3918,  
88.0295

# Harmonies

## Analogous

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



77.9737, 58.0869, 13.8396



59.6535, 58.0869, 8.0678



43.4578, 58.0869, 9.8077

# Triad

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



59.6535, 58.0869, 8.0678



29.8765, 58.0869, 107.0411



85.9454, 58.0869, 140.5297

# Complementary

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



59.6535, 58.0869, 8.0678



19.9412, 11.0022, 95.6797

# 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.



68.9099, 58.0869, 197.9470



59.6535, 58.0869, 8.0678



37.3732, 58.0869, 172.5845

# Square

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



59.6535, 58.0869, 8.0678



28.4115, 58.0869, 51.6401



50.9926, 58.0869, 212.0133



95.0795, 58.0869, 76.4740



# Rectangle

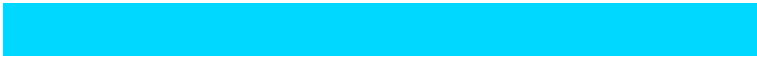
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



59.6535, 58.0869, 8.0678



35.6871, 58.0869, 15.8694



50.9926, 58.0869, 212.0133



80.8027, 58.0869, 162.3714

# Sweetspot

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



59.6548, 58.0898, 8.0689



79.1781, 84.1982, 54.4619



42.2838, 21.6779, 7.4269



16.5573, 17.5984, 10.4272



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.



59.6548, 58.0898, 8.0689



59.6539, 58.0878, 8.0680



58.3961, 83.1890, 12.9799



19.1462, 20.2606, 19.0459



31.2966, 30.6044, 4.2577



3.1348, 3.1549, 0.4437



# Inverse Universe

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



19.9412, 11.0022, 95.6797



19.9402, 11.0004, 95.6801



19.8845, 8.1661, 95.1353



17.3793, 18.1301, 22.8334



10.5193, 5.9482, 50.0283



1.1073, 0.7453, 4.8988



# Previews

## White Background



This preview shows how the XYZ color 59.6535, 58.0869, 8.0678 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 59.6535, 58.0869, 8.0678 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 59.6535, 58.0869, 8.0678**

## **Background**



This preview shows how black text looks on a background with the XYZ color 59.6535, 58.0869, 8.0678.



This preview shows how white text looks on a background with the XYZ color 59.6535, 58.0869,



# 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

59.6535, 58.0869, 8.0678

### Protanopia

52.6445, 58.1359, 8.8622

### Tritanopia

67.2783, 58.1135, 57.5403

# Trichromacy



## Original Color

59.6535, 58.0869, 8.0678

## Protanomaly

54.9406, 57.9568, 8.5495

## Tritanomaly

61.8933, 56.9461, 26.1419

# Monochromacy



## Original Color

59.6535, 58.0869, 8.0678

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

48.7391, 51.7483, 25.1889

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.6535, 58.0869, 8.0678 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(255, 190, 0)` looks like.

```
.text, #text, p{  
  color:rgb(255, 190, 0)  
}
```

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(255, 190, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 190, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 59.6535, 58.0869, 8.0678 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(255, 190, 0) }
```

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

```
.border{ border-color:rgb(255, 190, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 190, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 190, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 190, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 190,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 59.6535, 58.0869, 8.0678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 190, 0) }
```

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

```
.background{ background-color: rgb(255,  
190, 0) }
```

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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