

# Converting Colors

XYZ(58.1229, 55.0266, 7.5578)

Have a look what the booklet for  
XYZ(58.1229, 55.0266, 7.5578)  
contains.

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# **Color**

**XYZ(58.1735, 55.1270,  
7.5745)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB700
RGB	255, 183, 0
RGB Percent	100%, 72%, 0%
CMY	0.0000, 0.2823, 0.9999
CMYK	0.00, 0.28, 1.00, 0.00
HSL	43°, 100%, 50%
HSV	43°, 100%, 100%
XYZ	58.1735, 55.1270, 7.5745
YIQ	183.6660, 101.6550, -41.6490

# Conversions

## Conversions Part 2

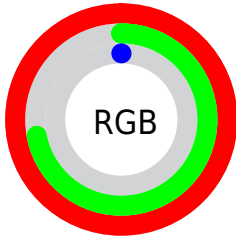
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	100, 255, 0
Decimal	16758528
CIE <sub>Lab</sub>	79.11, 14.55, 81.74
CIE <sub>LCh</sub>	79, 83.020, 79.910
Yxy	55.1270, 0.4813, 0.4561
Android (android.graphics.Color)	4294948608 (0xFFFFB700)
YUV	183.6660, -90.5473, 62.5599
Hunter-Lab	74.2476, 9.9228, 45.9247

# Details

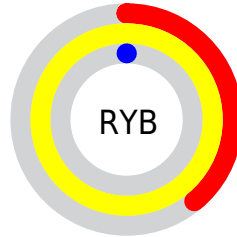
The XYZ color **58.1735, 55.1270, 7.5745** is a dark color, and the websafe version is hex **FFCC00**. The color can be described as middle saturated orange. A complement of this color would be **20.3682, 11.8563, 95.8219**, and the grayscale version is **45.8227, 48.2091, 52.4997**.

A 20% lighter version of the original color is **73.6678, 83.6175, 20.4407**, and **29.7209, 27.1717, 3.6782** is the 20% darker color. If you saturate the color by 10%, you get **58.1735, 55.1274, 7.5746**, and if you desaturate by 10%, it is **59.8791, 58.2489, 9.0366**.

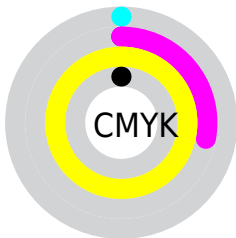
# Distribution



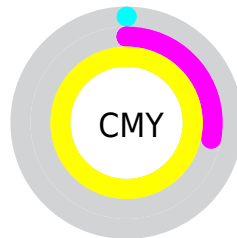
- Red (100%)
- Green (72%)
- Blue (0%)



- Red (39%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (28%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (28%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.1735, 55.1270, 7.5745 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 58.1735, 55.1270, 7.5745 by changing the saturation by 10% instead.





 58.1735, 55.1270,  
7.5745


 58.1735, 55.1270,  
7.5745


407.7756,  
406.3932, 182.1636


 42.1919, 39.5034,  
3.7401


 101.2970, 97.7270,  
21.6522

 29.4434, 27.1516,  
1.4839


 129.1696,  
125.4722, 32.7325


 19.5625, 17.6871,  
0.2059


 161.7367,  
158.0267, 47.0653

 12.1838, 10.7256,  
0.0000

 199.3635,  
195.7750, 65.0689

 6.9421, 5.8826,  
0.0000

 242.4155,  
239.1014, 87.1621

 3.4719, 2.7738,  
0.0000

 291.2579,

 1.4080, 1.0148,

288.3903, 113.7632

0.0000

346.2561,  
344.0261, 145.2909

■ 0.2619, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.1735, 55.1270,  
7.5745

■ 58.1735, 55.1270,  
7.5745

■ 58.1735, 55.1274,  
7.5746

■ 59.8791, 58.2489,  
9.0366

■ 61.8964, 61.6164,  
11.7651

■ 64.2996, 65.2634,  
16.1407

■ 67.1340, 69.2096,  
22.3959

70.4374, 73.4718,  
30.7256

74.2433, 78.0650,  
41.3004

78.5816, 83.0027,  
54.2727

83.4796, 88.2975,  
69.7820

88.9626, 93.9609,  
87.9567

# Harmonies

## Analogous

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



75.6848, 55.1270, 13.8064



58.1735, 55.1270, 7.5745



42.2873, 55.1270, 8.6367

# Triad

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



58.1735, 55.1270, 7.5745



27.8049, 55.1270, 96.7271



80.7153, 55.1270, 139.9506

# Complementary

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



58.1735, 55.1270, 7.5745



20.3682, 11.8563, 95.8219

# 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.



64.0008, 55.1270, 193.0072



58.1735, 55.1270, 7.5745



34.4548, 55.1270, 160.2618

# Square

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



58.1735, 55.1270, 7.5745



26.8908, 55.1270, 45.4272



47.0153, 55.1270, 201.9399



90.3980, 55.1270, 77.4538



# Rectangle

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



58.1735, 55.1270, 7.5745



34.5129, 55.1270, 13.7372



47.0153, 55.1270, 201.9399



75.5866, 55.1270, 160.6176

# Sweetspot

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



58.1747, 55.1298, 7.5755



78.5787, 82.9994, 54.2621



42.4182, 21.7316, 8.1351



16.4133, 17.3105, 10.3793



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.



58.1747, 55.1298, 7.5755



58.1739, 55.1279, 7.5746



59.5135, 83.7649, 13.0321



19.1023, 20.1728, 19.0313



30.5303, 29.0718, 4.0023



3.0654, 3.0162, 0.4206



# Inverse Universe

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



20.3682, 11.8563, 95.8219



20.3672, 11.8544, 95.8224



19.6402, 8.0401, 95.1237



17.4206, 18.2127, 22.8472



10.7506, 6.4108, 50.1054



1.1346, 0.7999, 4.9079



# Previews

## White Background



This preview shows how the XYZ color 58.1735, 55.1270, 7.5745 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 58.1735, 55.1270, 7.5745 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 58.1735, 55.1270, 7.5745**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.1735, 55.1270, 7.5745.



This preview shows how white text looks on a background with the XYZ color 58.1735, 55.1270,



# 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

58.1735, 55.1270, 7.5745

### Protanopia

49.8713, 55.3391, 8.5050

### Deuteranopia

56.2703, 55.0743, 7.6646



## Tritanopia

65.1330, 55.0349, 53.0889

# Trichromacy



## Original Color

58.1735, 55.1270, 7.5745

## Protanomaly

52.5087, 55.0448, 8.1444

## Deuteranomaly

57.1326, 55.2072, 7.6448

## Tritanomaly

60.2322, 54.0123, 24.3904

# Monochromacy



## Original Color

58.1735, 55.1270, 7.5745

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

46.9297, 49.2670, 23.8656

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.1735, 55.1270, 7.5745 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, 183, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 183, 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, 183, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 183, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 58.1735, 55.1270, 7.5745 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, 183, 0) }
```



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

```
.border{ border-color:rgb(255, 183, 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, 183, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 183, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 183, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 183,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.1735, 55.1270, 7.5745 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 183, 0) }
```

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

```
.background{ background-color: rgb(255,  
183, 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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