

# Converting Colors

XYZ(58.1450, 55.0253, 7.7029)

Have a look what the booklet for  
XYZ(58.1450, 55.0253, 7.7029)  
contains.

<b>XYZ(58.2009, 55.1379, 7.7187)</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> .....	30

# **Color**

**XYZ(58.2009, 55.1379,  
7.7187)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB705
RGB	255, 183, 5
RGB Percent	100%, 72%, 2%
CMY	0.0000, 0.2823, 0.9803
CMYK	0.00, 0.28, 0.98, 0.00
HSL	43°, 100%, 51%
HSV	43°, 98%, 100%
XYZ	58.2009, 55.1379, 7.7187
YIQ	184.2360, 100.0500, -40.0940

# Conversions

## Conversions Part 2

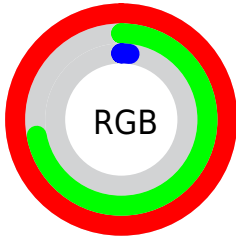
Format	Color
R <sub>Y</sub> B	106, 255, 5
Decimal	16758533
CIE Lab	79.12, 14.58, 81.23
CIE LCh	79, 82.527, 79.821
Yxy	55.1379, 0.4808, 0.4555
Android (android.graphics.Color)	4294948613 (0xFFFFB705)
YUV	184.2360, -88.3633, 62.0600
Hunter-Lab	74.2549, 9.9620, 45.8153

# Details

The XYZ color **58.2009, 55.1379, 7.7187** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle saturated orange. A complement of this color would be **20.7673, 12.5616, 95.9372**, and the grayscale version is **46.1279, 48.5301, 52.8493**.

A 20% lighter version of the original color is **73.7067, 83.6331, 20.6455**, and **29.7209, 27.1717, 3.6782** is the 20% darker color. If you saturate the color by 10%, you get **57.8780, 54.5365, 7.4761**, and if you desaturate by 10%, it is **59.9702, 58.3353, 9.3624**.

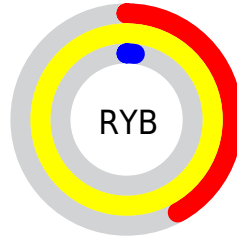
# Distribution



Red (100%)

Green (72%)

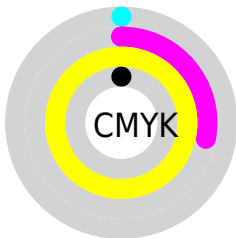
Blue (2%)



Red (42%)

Yellow (100%)

Blue (2%)

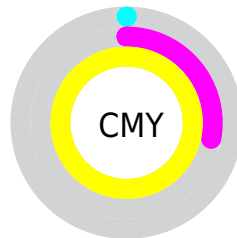


Cyan (0%)

Magenta (28%)

Yellow (98%)

Black (0%)



Cyan (0%)

Magenta (28%)


Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.2009, 55.1379, 7.7187 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 58.2009, 55.1379, 7.7187 by changing the saturation by 10% instead.




 58.2009, 55.1379,  
7.7187


 58.2009, 55.1379,  
7.7187


407.8759,  
406.4344, 183.3601


 42.2141, 39.5121,  
3.8303


 101.3366, 97.7430,  
21.9421


 29.4608, 27.1584,  
1.5327


 129.2163,  
125.4911, 33.1142

 19.5757, 17.6922,  
0.2421


 161.7909,  
158.0487, 47.5513

 12.1935, 10.7292,  
0.0000

 199.4258,  
195.8004, 65.6718

 6.9487, 5.8851,  
0.0000

 242.4864,  
239.1304, 87.8945

 3.4761, 2.7753,  
0.0000

 291.3381,

 1.4102, 1.0156,

288.4231, 114.6377

0.0000

346.3461,  
344.0630, 146.3201

■ 0.2635, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.2009, 55.1379,  
7.7187

■ 58.2009, 55.1379,  
7.7187

■ 57.8780, 54.5365,  
7.4761

■ 59.9702, 58.3353,  
9.3624

■ 62.0783, 61.7942,  
12.3993

■ 64.5849, 65.5427,  
17.1339

■ 67.5336, 69.5999,  
23.7897

70.9614, 73.9826,  
32.5561

74.9009, 78.7053,  
43.5998

79.3816, 83.7816,  
57.0705

84.4304, 89.2239,  
73.1052

90.0724, 95.0438,  
91.8305

# Harmonies

## Analogous

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



75.5904, 55.1379, 14.0012



58.2009, 55.1379, 7.7187



42.3921, 55.1379, 8.7672

# Triad

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



58.2009, 55.1379, 7.7187



27.9174, 55.1379, 96.3089



80.4942, 55.1379, 139.5478

# Complementary

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



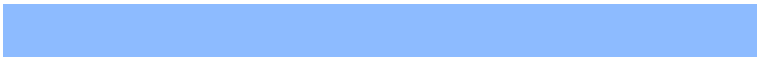
58.2009, 55.1379, 7.7187



20.7673, 12.5616, 95.9372

# 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.



63.8864, 55.1379, 192.0299



58.2009, 55.1379, 7.7187



34.5263, 55.1379, 159.3151

# Square

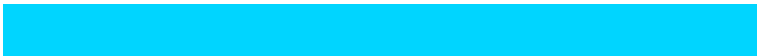
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



58.2009, 55.1379, 7.7187



27.0225, 55.1379, 45.4010



47.0108, 55.1379, 200.7169



90.1330, 55.1379, 77.5194



# Rectangle

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



58.2009, 55.1379, 7.7187



34.6413, 55.1379, 13.8637



47.0108, 55.1379, 200.7169



75.3970, 55.1379, 160.0145

# Sweetspot

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



58.2021, 55.1407, 7.7197



78.9240, 83.2749, 55.6569



42.7426, 21.9482, 9.5755



16.4743, 17.3545, 10.6398



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.



58.2021, 55.1407, 7.7197



57.8784, 54.5368, 7.4761



60.9649, 84.5101, 13.2430



19.0933, 20.1548, 19.0283



30.3771, 28.7655, 3.9513



3.0515, 2.9883, 0.4160



# Inverse Universe

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



20.7673, 12.5616, 95.9372



20.4614, 12.0428, 95.8538



19.6807, 8.1415, 95.1413



17.4291, 18.2297, 22.8500



10.8014, 6.5124, 50.1223



1.1405, 0.8117, 4.9098



# Previews

## White Background



This preview shows how the XYZ color 58.2009, 55.1379, 7.7187 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 58.2009, 55.1379, 7.7187 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 58.2009, 55.1379, 7.7187**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.2009, 55.1379, 7.7187.



This preview shows how white text looks on a background with the XYZ color 58.2009, 55.1379, 7.7187.



# 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

58.2009, 55.1379, 7.7187

### Protanopia

49.8786, 55.3421, 8.5434

### Tritanopia

65.1330, 55.0349, 53.0889

# Trichromacy



## Original Color

58.2009, 55.1379, 7.7187

## Protanomaly

52.5203, 55.0495, 8.2053

## Tritanomaly

60.3523, 54.0603, 25.0231

# Monochromacy



## Original Color

58.2009, 55.1379, 7.7187

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

47.0486, 49.3145, 24.4917

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.2009, 55.1379, 7.7187 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, 5)` looks like.

```
.text, #text, p{  
    color:rgb(255, 183, 5)  
}
```

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, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 183, 5) }
```

## Border

The CSS property to change the border of an element to XYZ 58.2009, 55.1379, 7.7187 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, 5) }
```

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

```
.border{ border-color:rgb(255, 183, 5) }
```

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, 5) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 183, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 183, 5);  
box-shadow:4px 4px 4px 4px rgb(255, 183,  
5) }
```



# Background

The CSS property to change the background color of an element to XYZ 58.2009, 55.1379, 7.7187 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, 5) }
```

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

```
.background{ background-color: rgb(255,  
183, 5) }
```

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