

# Converting Colors

XYZ(55.3616, 48.5471, 9.5846)

Have a look what the booklet for  
XYZ(55.3616, 48.5471, 9.5846)  
contains.

<b>XYZ(55.2927, 48.4093, 9.5617)</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(55.2927, 48.4093,  
9.5617)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA533
RGB	255, 165, 51
RGB Percent	100%, 65%, 20%
CMY	0.0000, 0.3529, 0.8000
CMYK	0.00, 0.35, 0.80, 0.00
HSL	34°, 100%, 60%
HSV	34°, 80%, 100%
XYZ	55.2927, 48.4093, 9.5617
YIQ	178.9140, 90.2340, -16.3740

# Conversions

## Conversions Part 2

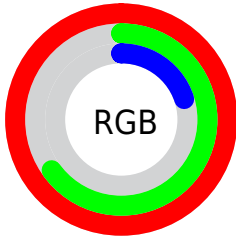
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	212, 255, 51
Decimal	16753971
CIE <sub>Lab</sub>	75.08, 24.80, 68.14
CIE <sub>LCh</sub>	75, 72.513, 70.003
Yxy	48.4093, 0.4882, 0.4274
Android (android.graphics.Color)	4294944051 (0xFFFFA533)
YUV	178.9140, -63.0616, 66.7274
Hunter-Lab	69.5768, 20.0946, 40.5557

# Details

The XYZ color **55.2927, 48.4093, 9.5617** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **28.9397, 26.9726, 98.2880**, and the grayscale version is **43.0951, 45.3394, 49.3746**.

A 20% lighter version of the original color is **69.4347, 73.4870, 24.1605**, and **27.8974, 23.1477, 2.9976** is the 20% darker color. If you saturate the color by 10%, you get **52.9364, 44.3636, 6.7215**, and if you desaturate by 10%, it is **58.1375, 52.9401, 14.0841**.

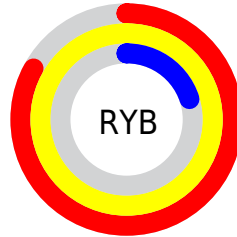
# Distribution



Red (100%)

Green (65%)

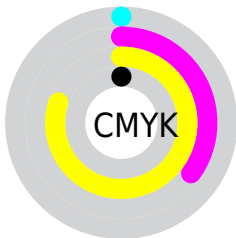
Blue (20%)



Red (83%)

Yellow (100%)

Blue (20%)

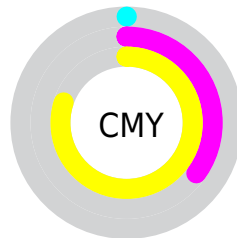


Cyan (0%)

Magenta (35%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (35%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.2927, 48.4093, 9.5617 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 55.2927, 48.4093, 9.5617 by changing the saturation by 10% instead.





 55.2927, 48.4093,  
9.5617

 55.2927, 48.4093,  
9.5617


397.1389,  
380.4122, 197.8844

 39.8709, 34.1511,  
5.0076


 97.1155, 87.8135,  
25.5626

 27.6217, 23.0097,  
2.1929


 124.2472,  
113.7283, 37.8464

 18.1796, 14.6007,  
0.6703


 156.0129,  
144.2975, 53.5438

 11.1795, 8.5396,  
0.0000

 192.7779,  
179.9054, 73.0734

 6.2559, 4.4421,  
0.0000

 234.9077,  
220.9364, 96.8537

 3.0434, 1.9238,  
0.0000

 282.7676,

 1.1768, 0.5626,

267.7750, 125.3033

0.0000

336.7228,  
320.8054, 158.8407

■ 0.0879, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.2927, 48.4093,  
9.5617

■ 55.2927, 48.4093,  
9.5617

■ 52.9364, 44.3636,  
6.7215

■ 58.1375, 52.9401,  
14.0841

■ 50.9886, 40.7576,  
5.1797

■ 61.5160, 57.9749,  
20.5195

■ 50.9883, 40.7570,  
5.1795

■ 65.4705, 63.5395,  
29.0651

■ 70.0375, 69.6552,  
39.8922

■ 75.2497, 76.3414,  
53.1546

■ 81.1376, 83.6163,  
68.9924

■ 87.7292, 91.4974,  
87.5351

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



68.4348, 48.4093, 18.3264



55.2927, 48.4093, 9.5617



41.7238, 48.4093, 8.5450

# Triad

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



55.2927, 48.4093, 9.5617



25.1939, 48.4093, 66.4363



64.4234, 48.4093, 130.7575

# Complementary

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



55.2927, 48.4093, 9.5617



28.9397, 26.9726, 98.2880

# 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.



50.5835, 48.4093, 162.2711



55.2927, 48.4093, 9.5617



29.1147, 48.4093, 114.9567

# Square

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



55.2927, 48.4093, 9.5617



25.9712, 48.4093, 31.4750



37.8319, 48.4093, 155.4027



74.3686, 48.4093, 81.8301



# Rectangle

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



55.2927, 48.4093, 9.5617



34.4041, 48.4093, 11.3921



37.8319, 48.4093, 155.4027



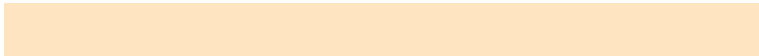
59.9739, 48.4093, 144.5979

# Sweetspot

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



55.2938, 48.4118, 9.5626



78.6990, 80.6338, 62.3372



47.3667, 25.6051, 28.3538



16.4000, 16.7077, 12.1510



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.



55.2938, 48.4118, 9.5626



51.7307, 42.1519, 5.7025



73.9436, 91.1350, 16.8260



18.8514, 19.6710, 18.9476



26.7940, 21.5993, 2.7569

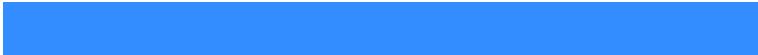


2.7178, 2.3209, 0.3047



# Inverse Universe

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



28.9397, 26.9726, 98.2880



24.6789, 20.2882, 97.2230



21.1710, 10.5866, 95.5346



17.6625, 18.6965, 22.9278



12.6306, 10.1708, 50.7320



1.3365, 1.2037, 4.9752



# Previews

## White Background



This preview shows how the XYZ color 55.2927, 48.4093, 9.5617 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 55.2927, 48.4093, 9.5617 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 55.2927, 48.4093, 9.5617**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.2927, 48.4093, 9.5617.



This preview shows how white text looks on a background with the XYZ color 55.2927, 48.4093,



# 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

55.2927, 48.4093, 9.5617

### Protanopia

44.2851, 48.8132, 10.8292

### Deuteranopia

49.6227, 48.5716, 9.3446



## Tritanopia

60.5347, 48.5409, 43.2246

# Trichromacy



## Original Color

55.2927, 48.4093, 9.5617

## Protanomaly

47.6376, 48.1147, 10.2663

## Deuteranomaly

51.5617, 48.4192, 9.4246

## Tritanomaly

57.6865, 48.2304, 25.6710

# Monochromacy



## Original Color

55.2927, 48.4093, 9.5617

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

45.0330, 45.2034, 28.1814

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.2927, 48.4093, 9.5617 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, 165, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 165, 51)  
}
```

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, 165, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 165, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 55.2927, 48.4093, 9.5617 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, 165, 51) }
```



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

```
.border{ border-color:rgb(255, 165, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 165, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 165, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 165, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 165,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.2927, 48.4093, 9.5617 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 165, 51) }
```

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

```
.background{ background-color: rgb(255,  
165, 51) }
```

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