

# Converting Colors

XYZ(55.8563, 49.5374, 9.7466)

Have a look what the booklet for  
XYZ(55.8563, 49.5374, 9.7466)  
contains.

<b>XYZ(55.8402, 49.5043, 9.7442)</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(55.8402, 49.5043,  
9.7442)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA833
RGB	255, 168, 51
RGB Percent	100%, 66%, 20%
CMY	0.0000, 0.3411, 0.8000
CMYK	0.00, 0.34, 0.80, 0.00
HSL	34°, 100%, 60%
HSV	34°, 80%, 100%
XYZ	55.8402, 49.5043, 9.7442
YIQ	180.6750, 89.4090, -17.9430

# Conversions

## Conversions Part 2

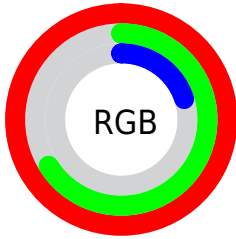
Format	Color
<a href="#">RYB</a>	<a href="#">203, 255, 51</a>
Decimal	<a href="#">16754739</a>
CIELab	<a href="#">75.76, 23.23, 68.75</a>
CIELCh	<a href="#">76, 72.574, 71.329</a>
Yxy	<a href="#">49.5043, 0.4852, 0.4301</a>
Android (android.graphics.Color)	<a href="#">4294944819</a> ( <a href="#">0xFFFFA833</a> )
YUV	<a href="#">180.6750, -63.9298, 65.1830</a>
Hunter-Lab	<a href="#">70.3593, 18.5366, 41.0403</a>

# Details

The XYZ color **55.8402, 49.5043, 9.7442** 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 **28.5033, 26.0999, 98.1426**, and the grayscale version is **44.0473, 46.3412, 50.4655**.

A 20% lighter version of the original color is **70.2815, 75.0969, 24.7008**, and **28.2377, 23.8282, 3.1110** is the 20% darker color. If you saturate the color by 10%, you get **53.5002, 45.4912, 6.9094**, and if you desaturate by 10%, it is **58.6582, 53.9814, 14.2576**.

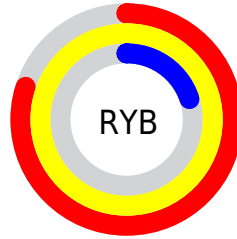
# Distribution



Red (100%)

Green (66%)

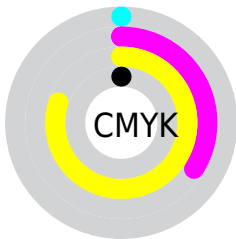
Blue (20%)



Red (80%)

Yellow (100%)

Blue (20%)

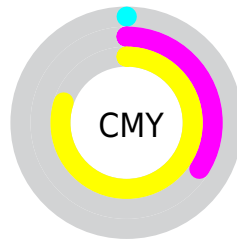


Cyan (0%)

Magenta (34%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (34%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.8402, 49.5043, 9.7442 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 55.8402, 49.5043, 9.7442 by changing the saturation by 10% instead.





 55.8402, 49.5043,  
9.7442

 55.8402, 49.5043,  
9.7442


399.1738,  
384.7243, 199.2545

 40.3113, 35.0197,  
5.1263


 97.9121, 89.4400,  
25.9135

 27.9666, 23.6780,  
2.2615


 125.1857,  
115.6599, 38.3020

 18.4408, 15.0950,  
0.7095


 157.1051,  
146.5603, 54.1177

 11.3686, 8.8861,  
0.0000

 194.0354,  
182.5256, 73.7793

 6.3844, 4.6669,  
0.0000

 236.3421,  
223.9403, 97.7052

 3.1231, 2.0532,  
0.0000

 284.3905,

 1.2192, 0.6381,

271.1887, 126.3140

0.0000

338.5459,  
324.6552, 160.0243

■ 0.1214, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.8402, 49.5043,  
9.7442

■ 55.8402, 49.5043,  
9.7442

■ 53.5002, 45.4912,  
6.9094

■ 58.6582, 53.9814,  
14.2576

■ 51.5585, 41.8975,  
5.3697

■ 61.9988, 58.9404,  
20.6805

■ 51.5582, 41.8968,  
5.3695

■ 65.9039, 64.4063,  
29.2096

■ 70.4096, 70.3994,  
40.0163

■ 75.5482, 76.9383,  
53.2542

■ 81.3498, 84.0407,  
69.0632

■ 87.8420, 91.7230,  
87.5728

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.



69.3041, 49.5043, 18.2576



55.8402, 49.5043, 9.7442



42.1456, 49.5043, 8.9792

# Triad

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



55.8402, 49.5043, 9.7442



25.9519, 49.5043, 69.8258



66.3124, 49.5043, 130.9912

# Complementary

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



55.8402, 49.5043, 9.7442



28.5033, 26.0999, 98.1426

# 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.



52.3259, 49.5043, 164.2477



55.8402, 49.5043, 9.7442



30.1601, 49.5043, 119.2229

# Square

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



55.8402, 49.5043, 9.7442



26.5335, 49.5043, 33.4724



39.2385, 49.5043, 159.1350



76.1015, 49.5043, 81.3050



# Rectangle

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



55.8402, 49.5043, 9.7442



34.8295, 49.5043, 12.1252



39.2385, 49.5043, 159.1350



61.8448, 49.5043, 145.3303

# Sweetspot

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



55.8413, 49.5068, 9.7451



78.9473, 81.1303, 62.4200



47.1134, 25.5038, 27.0201



16.4596, 16.8270, 12.1709



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.



55.8413, 49.5068, 9.7451



52.2993, 43.2892, 5.8921



72.7696, 90.5297, 16.7711



18.8745, 19.7171, 18.9553



27.0916, 22.1945, 2.8561



2.7462, 2.3778, 0.3142



# Inverse Universe

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



28.5033, 26.0999, 98.1426



24.2621, 19.4547, 97.0841



21.3878, 10.6984, 95.5448



17.6398, 18.6513, 22.9203



12.4155, 9.7406, 50.6603



1.3145, 1.1597, 4.9678



# Previews

## White Background



This preview shows how the XYZ color 55.8402, 49.5043, 9.7442 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 55.8402, 49.5043, 9.7442 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 55.8402, 49.5043, 9.7442**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.8402, 49.5043, 9.7442.



This preview shows how white text looks on a background with the XYZ color 55.8402, 49.5043,



# 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

55.8402, 49.5043, 9.7442

### Protanopia

45.2754, 49.9536, 10.9971

### Deuteranopia

50.6944, 49.7082, 9.6121



## Tritanopia

61.1615, 49.3419, 44.8285

# Trichromacy



## Original Color

55.8402, 49.5043, 9.7442

## Protanomaly

48.5538, 49.4828, 10.4821

## Deuteranomaly

52.2875, 49.3627, 9.5684

## Tritanomaly

58.1680, 48.9867, 26.4683

# Monochromacy



## Original Color

55.8402, 49.5043, 9.7442

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

45.8408, 46.1818, 29.0522

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.8402, 49.5043, 9.7442 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, 168, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 168, 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, 168, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 168, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 55.8402, 49.5043, 9.7442 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, 168, 51) }
```



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

```
.border{ border-color:rgb(255, 168, 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, 168, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 168, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 168, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 168,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.8402, 49.5043, 9.7442 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 168, 51) }
```

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

```
.background{ background-color: rgb(255,  
168, 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](#).

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