

# Converting Colors

XYZ(49.2256, 33.3940, 16.4216)

Have a look what the booklet for  
XYZ(49.2256, 33.3940, 16.4216)  
contains.

<b>XYZ(49.2142, 33.3712, 16.4178)</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(49.2142, 33.3712,  
16.4178)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6E66
RGB	255, 110, 102
RGB Percent	100%, 43%, 40%
CMY	0.0000, 0.5686, 0.6000
CMYK	0.00, 0.57, 0.60, 0.00
HSL	3°, 100%, 70%
HSV	3°, 60%, 100%
XYZ	49.2142, 33.3712, 16.4178
YIQ	152.4430, 88.9880, 28.2520

# Conversions

## Conversions Part 2

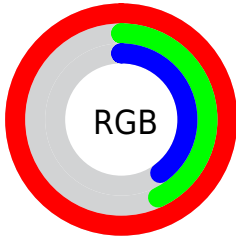
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 110, 102
Decimal	16739942
CIE Lab	64.46, 54.69, 32.27
CIE LCh	64, 63.503, 30.546
Yxy	33.3712, 0.4971, 0.3371
Android (android.graphics.Color)	4294930022 (0xFFFF6E66)
YUV	152.4430, -24.8684, 89.9425
Hunter-Lab	57.7678, 50.9760, 23.5871

# Details

The XYZ color **49.2142, 33.3712, 16.4178** is a light color, and the websafe version is hex **FF6666**. A complement of this color would be **56.7876, 76.5610, 106.3919**, and the grayscale version is **30.1151, 31.6834, 34.5033**.

A 20% lighter version of the original color is **60.6260, 50.8323, 36.7533**, and **23.7470, 14.1206, 5.0884** is the 20% darker color. If you saturate the color by 10%, you get **45.8771, 28.4193, 9.9967**, and if you desaturate by 10%, it is **53.6525, 39.9037, 25.1247**.

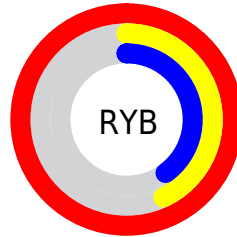
# Distribution



Red (100%)

Green (43%)

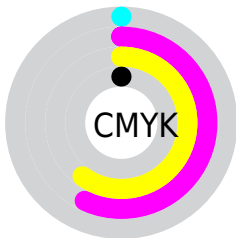
Blue (40%)



Red (100%)

Yellow (43%)

Blue (40%)

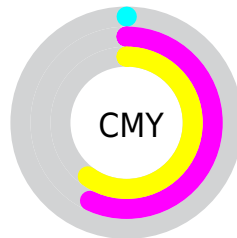


Cyan (0%)

Magenta (57%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (57%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2142, 33.3712, 16.4178 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 49.2142, 33.3712, 16.4178 by changing the saturation by 10% instead.





 49.2142, 33.3712,  
16.4178


 49.2142, 33.3712,  
16.4178


374.0880,  
317.3191, 243.7239

 35.0047, 22.4110,  
9.6627


 88.2083, 64.9546,  
38.0989


 23.8330, 14.1592,  
5.0733


 113.7236, 86.3466,  
53.8619

 15.3338, 8.2315,  
2.2308


 143.7382,  
111.9846, 73.4647

 9.1419, 4.2434,  
0.6921

 178.6174,  
142.2531, 97.3258

 4.8917, 1.8106,  
0.0000

218.7267,  
177.5364, 125.8638

 2.2179, 0.4938,  
0.0000

264.4313,

 0.7522, 0.0000,

218.2188, 159.4971

0.0000

316.0966,  
264.6850, 198.6443

■ 0.0000, 0.0000,  
0.0000

■ 49.2142, 33.3712,  
16.4178

■ 49.2142, 33.3712,  
16.4178

■ 45.8771, 28.4193,  
9.9967

■ 53.6525, 39.9037,  
25.1247

■ 43.5425, 24.9093,  
5.6451

■ 59.2745, 48.1296,  
36.3032

■ 42.0983, 22.6876,  
3.1086

■ 66.1576, 58.1574,  
50.1223

■ 41.3882, 21.5567,  
1.9795

■ 74.3719, 70.0855,  
66.7353

■ 41.3882, 21.5567,  
1.9795

■ 83.9825, 84.0047,  
86.2840

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



52.5255, 33.3712, 35.8620



49.2142, 33.3712, 16.4178



41.0803, 33.3712, 7.9037

# Triad

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



49.2142, 33.3712, 16.4178



18.8373, 33.3712, 16.9077



31.8847, 33.3712, 112.5568

# Complementary

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



49.2142, 33.3712, 16.4178



56.7876, 76.5610, 106.3919

# 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.



23.8991, 33.3712, 99.4051



49.2142, 33.3712, 16.4178



17.2911, 33.3712, 36.8133

# Square

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



49.2142, 33.3712, 16.4178



23.6617, 33.3712, 8.0770



18.9549, 33.3712, 68.0534



41.4230, 33.3712, 98.4776



# Rectangle

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



49.2142, 33.3712, 16.4178



34.6671, 33.3712, 5.9946



18.9549, 33.3712, 68.0534



28.9417, 33.3712, 111.1275

# Sweetspot

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



49.2150, 33.3730, 16.4184



76.1803, 72.7070, 70.4052



62.8337, 37.4998, 92.2052



15.7465, 14.7515, 13.9349



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.



49.2150, 33.3730, 16.4184



45.3334, 27.6064, 8.9680



61.2286, 57.4003, 20.4229



18.0856, 18.1394, 18.6924



21.6574, 11.3261, 1.0447



2.1343, 1.1541, 0.1103



# Inverse Universe

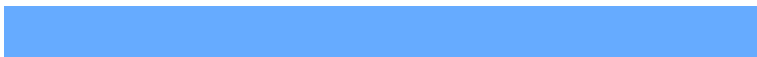
The Inverse Universe completely reimagines the original color for something new.



56.7876, 76.5610, 106.3919



53.4486, 74.1159, 106.0965



38.0641, 39.1141, 100.1508



18.4686, 20.3088, 23.1965



26.0042, 36.9180, 55.1899



2.5559, 3.6425, 5.3816



# Previews

## White Background



This preview shows how the XYZ color 49.2142, 33.3712, 16.4178 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



## 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 49.2142, 33.3712, 16.4178**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2142, 33.3712, 16.4178.



This preview shows how white text looks on a background with the XYZ color 49.2142, 33.3712,

16.4178.

# 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

49.2142, 33.3712, 16.4178

### Protanopia

31.2760, 33.3729, 22.8824

### Deuteranopia

34.2071, 33.5861, 15.5063



## Tritanopia

49.8610, 33.4582, 20.3531

# Trichromacy



## Original Color

49.2142, 33.3712, 16.4178

## Protanomaly

35.8231, 31.8223, 20.1738

## Deuteranomaly

38.6001, 32.5059, 15.7951

## Tritanomaly

49.5779, 33.3450, 18.8621

# Monochromacy



## Original Color

49.2142, 33.3712, 16.4178

## Achromatopsia

29.8446, 31.3989, 34.1934

## Achromatomaly

34.2350, 30.4314, 26.6237

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2142, 33.3712, 16.4178 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, 110, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 110, 102)  
}
```

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, 110, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 110, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2142, 33.3712, 16.4178 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, 110, 102) }
```



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

```
.border{ border-color:rgb(255, 110, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 110, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 110, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 110, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 110,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2142, 33.3712, 16.4178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 110, 102) }
```

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

```
.background{ background-color: rgb(255,  
110, 102) }
```

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