

# Converting Colors

XYZ(49.8307, 34.6041, 16.6237)

Have a look what the booklet for  
XYZ(49.8307, 34.6041, 16.6237)  
contains.

<b>XYZ(49.8837, 34.7101, 16.6409)</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(49.8837, 34.7101,  
16.6409)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7466
RGB	255, 116, 102
RGB Percent	100%, 45%, 40%
CMY	0.0000, 0.5451, 0.6000
CMYK	0.00, 0.55, 0.60, 0.00
HSL	5°, 100%, 70%
HSV	5°, 60%, 100%
XYZ	49.8837, 34.7101, 16.6409
YIQ	155.9650, 87.3380, 25.1140

# Conversions

## Conversions Part 2

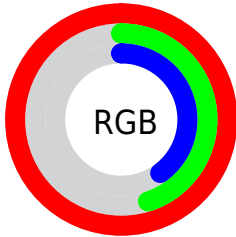
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 117, 102
Decimal	16741478
CIE Lab	65.52, 51.92, 33.63
CIE LCh	66, 61.861, 32.926
Yxy	34.7101, 0.4928, 0.3429
Android (android.graphics.Color)	4294931558 (0xFFFF7466)
YUV	155.9650, -26.6047, 86.8537
Hunter-Lab	58.9153, 48.0346, 24.4940

# Details

The XYZ color **49.8837, 34.7101, 16.6409** is a light color, and the websafe version is hex **FF6666**. A complement of this color would be **54.9824, 72.9507, 105.7904**, and the grayscale version is **31.6732, 33.3226, 36.2883**.

A 20% lighter version of the original color is **61.5527, 52.6857, 37.0622**, and **24.3507, 14.9508, 5.2168** is the 20% darker color. If you saturate the color by 10%, you get **46.4624, 29.5899, 10.1917**, and if you desaturate by 10%, it is **54.3612, 41.3209, 25.3609**.

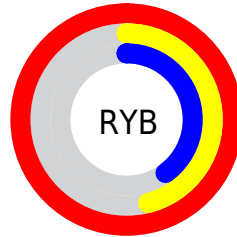
# Distribution



Red (100%)

Green (45%)

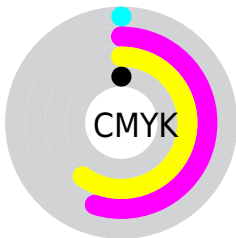
Blue (40%)



Red (100%)

Yellow (46%)

Blue (40%)

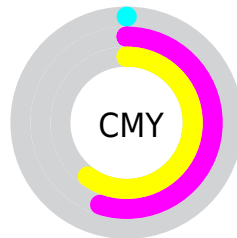


Cyan (0%)

Magenta (55%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (55%)

Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8837, 34.7101, 16.6409 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 49.8837, 34.7101, 16.6409 by changing the saturation by 10% instead.





 49.8837, 34.7101,  
16.6409


 49.8837, 34.7101,  
16.6409


376.6705,  
323.2869, 245.0679

 35.5384, 23.4396,  
9.8196


 89.1954, 67.0364,  
38.4895

 24.2464, 14.9185,  
5.1754


 114.8925, 88.8611,  
54.3538

 15.6422, 8.7622,  
2.2900


 145.1043,  
114.9726, 74.0695

 9.3606, 4.5864,  
0.7256

 180.1961,  
145.7554, 98.0551

 5.0361, 2.0067,  
0.0000

220.5332,  
181.5938, 126.7292

 2.3034, 0.6114,  
0.0000

266.4811,

 0.7964, 0.0000,

222.8722, 160.5104

0.0000

318.4051,  
269.9751, 199.8171

■ 0.0000, 0.0000,  
0.0000

■ 49.8837, 34.7101,  
16.6409

■ 49.8837, 34.7101,  
16.6409

■ 46.4624, 29.5899,  
10.1917

■ 54.3612, 41.3209,  
25.3609

■ 44.0075, 25.8391,  
5.8001

■ 59.9698, 49.5202,  
36.5350

■ 42.4179, 23.3266,  
3.2151

■ 66.7808, 59.4038,  
50.3300

■ 41.5532, 21.8866,  
2.0345

■ 74.8586, 71.0587,  
66.8975

■ 41.5532, 21.8865,  
2.0344

■ 84.2630, 84.5656,  
86.3775

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.



53.6309, 34.7101, 35.3029



49.8837, 34.7101, 16.6409



41.5736, 34.7101, 8.4988

# Triad

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



49.8837, 34.7101, 16.6409



19.7812, 34.7101, 19.3273



33.8884, 34.7101, 112.7437

# Complementary

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



49.8837, 34.7101, 16.6409



54.9824, 72.9507, 105.7904

# 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.



25.6790, 34.7101, 101.9135



49.8837, 34.7101, 16.6409



18.4698, 34.7101, 40.3983

# Square

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



49.8837, 34.7101, 16.6409



24.3974, 34.7101, 9.4760



20.4204, 34.7101, 71.9236



43.3970, 34.7101, 97.0578



# Rectangle

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



49.8837, 34.7101, 16.6409



35.1835, 34.7101, 6.7527



20.4204, 34.7101, 71.9236



30.8913, 34.7101, 112.0927

# Sweetspot

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



49.8845, 34.7120, 16.6415



76.6314, 73.6091, 70.5556



62.0558, 37.1887, 88.1086



15.8539, 14.9663, 13.9707



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.



49.8845, 34.7120, 16.6415



45.8971, 28.7339, 9.1559



62.3236, 59.5900, 20.7878



18.1431, 18.2543, 18.7115



21.7572, 11.5257, 1.0779



2.1615, 1.2083, 0.1193

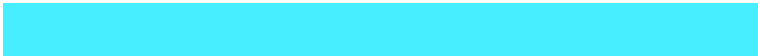


# Inverse Universe

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



54.9824, 72.9507, 105.7904



51.3081, 69.8350, 105.3830



37.1204, 37.2266, 99.8364



18.4043, 20.1802, 23.1751



24.5175, 33.9445, 54.6943



2.4270, 3.3847, 5.3387



# Previews

## White Background



This preview shows how the XYZ color 49.8837, 34.7101, 16.6409 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

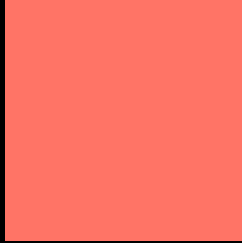
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.8837, 34.7101, 16.6409 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 49.8837, 34.7101, 16.6409**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.8837, 34.7101, 16.6409.



This preview shows how white text looks on a background with the XYZ color 49.8837, 34.7101,



# 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

49.8837, 34.7101, 16.6409

### Protanopia

32.5829, 34.8103, 22.7711

### Deuteranopia

35.5419, 34.7520, 15.6610



## Tritanopia

50.7702, 34.6998, 22.4342

# Trichromacy



## Original Color

49.8837, 34.7101, 16.6409

## Protanomaly

37.1602, 33.3937, 20.1099

## Deuteranomaly

39.7561, 33.9460, 16.0121

## Tritanomaly

50.4652, 34.7593, 20.2691

# Monochromacy



## Original Color

49.8837, 34.7101, 16.6409

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

35.7070, 32.0338, 27.5937

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.8837, 34.7101, 16.6409 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, 116, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 116, 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, 116, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 116, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 49.8837, 34.7101, 16.6409 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, 116, 102) }
```



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

```
.border{ border-color:rgb(255, 116, 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, 116, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 116, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 116, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 116,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.8837, 34.7101, 16.6409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 116, 102) }
```

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

```
.background{ background-color: rgb(255,  
116, 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](#).

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