

# Converting Colors

XYZ(74.9739, 62.0015, 14.5280)

Have a look what the booklet for  
XYZ(74.9739, 62.0015, 14.5280)  
contains.

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# Color

**XYZ(58.3964, 53.5952,  
13.7456)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB24A
RGB	255, 178, 74
RGB Percent	100%, 70%, 29%
CMY	0.0000, 0.3019, 0.7098
CMYK	0.00, 0.30, 0.71, 0.00
HSL	34°, 100%, 65%
HSV	34°, 71%, 100%
XYZ	58.3964, 53.5952, 13.7456
YIQ	189.1670, 79.2760, -16.0200

# Conversions

## Conversions Part 2

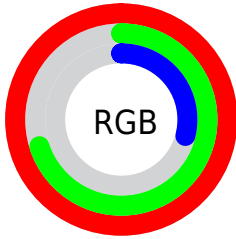
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	208, 255, 74
Decimal	16757322
CIE Lab	78.23, 18.92, 62.13
CIE LCh	78, 64.944, 73.063
Yxy	53.5952, 0.4644, 0.4262
Android (android.graphics.Color)	4294947402 (0xFFFFB24A)
YUV	189.1670, -56.7773, 57.7355
Hunter-Lab	73.2087, 14.2688, 40.1139

# Details

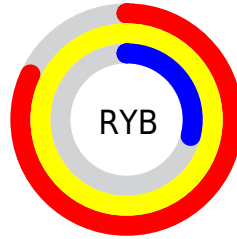
The XYZ color **58.3964, 53.5952, 13.7456** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.9399, 30.8075, 98.8701**, and the grayscale version is **48.7498, 51.2886, 55.8533**.

A 20% lighter version of the original color is **74.5591, 81.6641, 32.2551**, and **29.6544, 26.1656, 3.8683** is the 20% darker color. If you saturate the color by 10%, you get **55.6317, 49.1735, 9.4104**, and if you desaturate by 10%, it is **61.6822, 58.5028, 19.9720**.

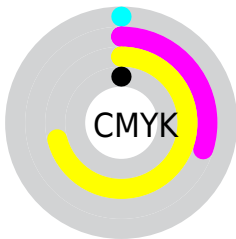
# Distribution



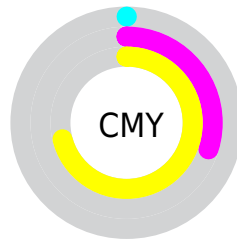
- Red (100%)
- Green (70%)
- Blue (29%)



- Red (82%)
- Yellow (100%)
- Blue (29%)



- Cyan (0%)
- Magenta (30%)
- Yellow (71%)
- Black (0%)



- Cyan (0%)
- Magenta (30%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.3964, 53.5952, 13.7456 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 58.3964, 53.5952, 13.7456 by changing the saturation by 10% instead.



58.3964, 53.5952,  
13.7456

58.3964, 53.5952,  
13.7456

408.5915,  
400.5645, 227.0155

42.3719, 38.2781,  
7.8072

101.6195, 95.4796,  
33.3476

29.5850, 26.1986,  
3.8858

129.5489,  
122.8158, 47.8482

19.6703, 16.9723,  
1.5629

162.1773,  
154.9271, 66.0400

12.2625, 10.2147,  
0.2642

199.8700,  
192.1979, 88.3415

6.9962, 5.5416,  
0.0000

242.9924,  
235.0127, 115.1713

3.5060, 2.5684,  
0.0000

291.9099,

1.4267, 0.9108,

283.7557, 146.9479

0.0000

346.9878,  
338.8116, 184.0898

■ 0.2751, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.3964, 53.5952,  
13.7456

■ 58.3964, 53.5952,  
13.7456

■ 55.6317, 49.1735,  
9.4104

■ 61.6822, 58.5028,  
19.9720

■ 53.3354, 45.2038,  
6.7249

■ 65.5267, 63.9109,  
28.2854

■ 51.6001, 41.9807,  
5.3835

■ 69.9675, 69.8426,  
38.8601

■ 75.0375, 76.3166,  
51.8513

80.7665, 83.3506,  
67.4002

87.1827, 90.9611,  
85.6370

94.3120, 99.1637,  
106.6831

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.



70.9613, 53.5952, 22.4268



58.3964, 53.5952, 13.7456



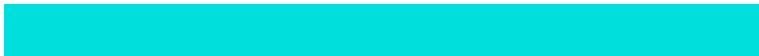
45.6146, 53.5952, 13.2838

# Triad

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



58.3964, 53.5952, 13.7456



30.6515, 53.5952, 75.6465



69.5142, 53.5952, 125.8754

# Complementary

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



58.3964, 53.5952, 13.7456



31.9399, 30.8075, 98.8701

# 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.



56.6659, 53.5952, 156.5246



58.3964, 53.5952, 13.7456



35.0915, 53.5952, 120.3724

# Square

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



58.3964, 53.5952, 13.7456



30.9573, 53.5952, 40.2500



44.1481, 53.5952, 154.1725



78.0758, 53.5952, 81.2109



# Rectangle

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



58.3964, 53.5952, 13.7456



38.7381, 53.5952, 17.1591



44.1481, 53.5952, 154.1725



65.4692, 53.5952, 138.8536

# Sweetspot

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



58.3976, 53.5979, 13.7466



80.7545, 83.3359, 67.3655



49.3918, 28.4391, 32.7788



16.9318, 17.4095, 13.4440



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.



58.3976, 53.5979, 13.7466



54.6554, 47.5246, 8.1475



73.9348, 91.0567, 20.1580



18.8761, 19.7204, 18.9559



27.1135, 22.2383, 2.8634

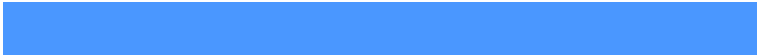


2.7483, 2.3820, 0.3149



# Inverse Universe

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



31.9399, 30.8075, 98.8701



26.9013, 23.7224, 97.7688



24.3430, 14.0996, 96.0455



17.6382, 18.6480, 22.9197



12.4003, 9.7102, 50.6553



1.3130, 1.1566, 4.9673



# Previews

## White Background



This preview shows how the XYZ color 58.3964, 53.5952, 13.7456 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 58.3964, 53.5952, 13.7456 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 58.3964, 53.5952, 13.7456**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.3964, 53.5952, 13.7456.



This preview shows how white text looks on a background with the XYZ color 58.3964, 53.5952,



# 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

58.3964, 53.5952, 13.7456

### Protanopia

49.0220, 53.7470, 15.1876

### Deuteranopia

54.9281, 53.6261, 13.5867



## Tritanopia

63.9552, 53.3456, 50.6420

# Trichromacy



**Original Color**

58.3964, 53.5952, 13.7456

**Protanomaly**

51.9559, 53.3253, 14.5756

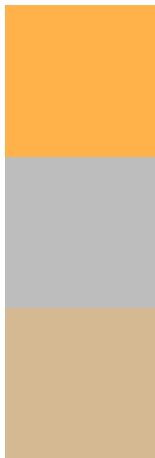
**Deuteranomaly**

56.2883, 53.7111, 13.7039

**Tritanomaly**

61.0661, 53.1001, 32.6220

# Monochromacy



**Original Color**

58.3964, 53.5952, 13.7456

**Achromatopsia**

48.3692, 50.8881, 55.4172

**Achromatomaly**

50.0560, 50.9506, 34.8000

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.3964, 53.5952, 13.7456 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, 178, 74)` looks like.

```
.text, #text, p{  
    color:rgb(255, 178, 74)  
}
```

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, 178, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 178, 74) }
```

## Border

The CSS property to change the border of an element to XYZ 58.3964, 53.5952, 13.7456 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, 178, 74) }
```



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

```
.border{ border-color:rgb(255, 178, 74) }
```

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

Here you see how a box with a 4 pixel rgb(255, 178, 74) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 178, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 178, 74);  
box-shadow:4px 4px 4px 4px rgb(255, 178,  
74) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.3964, 53.5952, 13.7456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 178, 74) }
```

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

```
.background{ background-color: rgb(255,  
178, 74) }
```

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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