

# Converting Colors

XYZ(60.4099, 52.5832, 14.2471)

Have a look what the booklet for  
XYZ(60.4099, 52.5832, 14.2471)  
contains.

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# Color

**XYZ(57.1781, 50.9359,  
14.0257)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFAB4E
RGB	255, 171, 78
RGB Percent	100%, 67%, 31%
CMY	0.0000, 0.3294, 0.6941
CMYK	0.00, 0.33, 0.69, 0.00
HSL	32°, 100%, 65%
HSV	32°, 69%, 100%
XYZ	57.1781, 50.9359, 14.0257
YIQ	185.5140, 79.9170, -11.1150

# Conversions

## Conversions Part 2

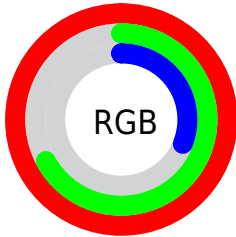
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	238, 255, 78
Decimal	16755534
CIE Lab	76.64, 22.77, 58.72
CIE LCh	77, 62.979, 68.800
Yxy	50.9359, 0.4681, 0.4170
Android (android.graphics.Color)	4294945614 (0xFFFFAB4E)
YUV	185.5140, -53.0044, 60.9392
Hunter-Lab	71.3694, 18.1101, 38.3067

# Details

The XYZ color **57.1781, 50.9359, 14.0257** 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 **34.1114, 34.6787, 99.5030**, and the grayscale version is **46.6571, 49.0869, 53.4557**.

A 20% lighter version of the original color is **72.5331, 77.2914, 32.5686**, and **28.7438, 24.5930, 4.0426** is the 20% darker color. If you saturate the color by 10%, you get **54.2530, 46.2764, 9.3813**, and if you desaturate by 10%, it is **60.6690, 56.1608, 20.6071**.

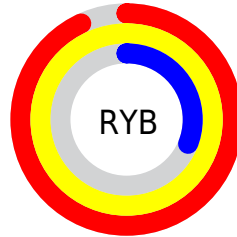
# Distribution



Red (100%)

Green (67%)

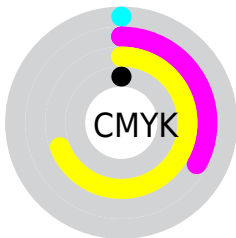
Blue (31%)



Red (93%)

Yellow (100%)

Blue (31%)

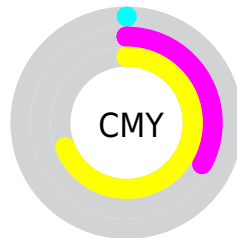


Cyan (0%)

Magenta (33%)

Yellow (69%)

Black (0%)



Cyan (0%)

Magenta (33%)


Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 57.1781, 50.9359, 14.0257 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 57.1781, 50.9359, 14.0257 by changing the saturation by 10% instead.





 57.1781, 50.9359,  
14.0257


 57.1781, 50.9359,  
14.0257


404.1197,  
390.3147, 228.8246

 41.3889, 36.1576,  
7.9996

 99.8549, 91.5600,  
33.8524

 28.8121, 24.5559,  
4.0069


 127.4732,  
118.1746, 48.4901


 19.0823, 15.7465,  
1.6291


 159.7653,  
149.5034, 66.8354

 11.8341, 9.3450,  
0.3115

 197.0965,  
185.9309, 89.3068

 6.7022, 4.9669,  
0.0000

 239.8322,  
227.8413, 116.3229

 3.3212, 2.2278,  
0.0000

288.3377,

 1.3258, 0.7351,

275.6192, 148.3022

0.0000

342.9785,  
329.6488, 185.6633

■ 0.2024, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 57.1781, 50.9359,  
14.0257

■ 57.1781, 50.9359,  
14.0257

■ 54.2530, 46.2764,  
9.3813

■ 60.6690, 56.1608,  
20.6071

■ 51.8411, 42.1460,  
6.4397

■ 64.7643, 61.9687,  
29.3175

■ 49.8708, 38.5088,  
4.8476

■ 69.5023, 68.3855,  
40.3283

■ 49.7637, 38.3078,  
4.7713

■ 74.9169, 75.4326,  
53.7927

■ 81.0391, 83.1303,  
69.8506

■ 87.8979, 91.4975,  
88.6311

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.



68.5496, 50.9359, 23.6724



57.1781, 50.9359, 14.0257



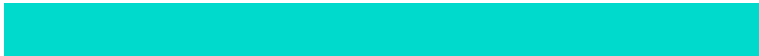
44.9923, 50.9359, 12.6096

# Triad

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



57.1781, 50.9359, 14.0257



29.1206, 50.9359, 66.1153



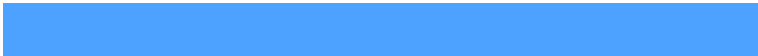
64.2322, 50.9359, 123.9086

# Complementary

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



57.1781, 50.9359, 14.0257



34.1114, 34.6787, 99.5030

# 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.



52.0029, 50.9359, 148.8362



57.1781, 50.9359, 14.0257



32.6652, 50.9359, 107.5621

# Square

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



57.1781, 50.9359, 14.0257



30.0426, 50.9359, 34.9588



40.5929, 50.9359, 141.8658



73.0644, 50.9359, 82.7276



# Rectangle

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



57.1781, 50.9359, 14.0257



38.1946, 50.9359, 15.5475



40.5929, 50.9359, 141.8658



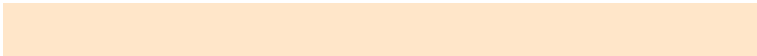
60.3086, 50.9359, 135.1018

# Sweetspot

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



57.1793, 50.9385, 14.0267



80.0180, 81.8630, 67.1200



50.6247, 29.3732, 37.9111



16.7567, 17.0592, 13.3856



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.



57.1793, 50.9385, 14.0267



53.3313, 44.7346, 8.1431



77.2979, 92.7744, 21.0414



18.7993, 19.5668, 18.9303



26.1535, 20.3182, 2.5434



2.6559, 2.1972, 0.2841



# Inverse Universe

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



34.1114, 34.6787, 99.5030



29.0020, 27.6232, 98.4110



24.1638, 14.4164, 96.1163



17.7140, 18.7996, 22.9450



13.1518, 11.2131, 50.9058



1.3890, 1.3087, 4.9927



# Previews

## White Background



This preview shows how the XYZ color 57.1781, 50.9359, 14.0257 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 57.1781, 50.9359, 14.0257 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 57.1781, 50.9359, 14.0257**

## **Background**



This preview shows how black text looks on a background with the XYZ color 57.1781, 50.9359, 14.0257.



This preview shows how white text looks on a background with the XYZ color 57.1781, 50.9359,



# 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

57.1781, 50.9359, 14.0257

### Protanopia

46.8777, 51.3159, 15.8217

### Deuteranopia

52.1833, 50.9834, 13.7470



## Tritanopia

62.2533, 50.9061, 47.1022

# Trichromacy



**Original Color**

57.1781, 50.9359, 14.0257

**Protanomaly**

50.1350, 50.8071, 15.1470

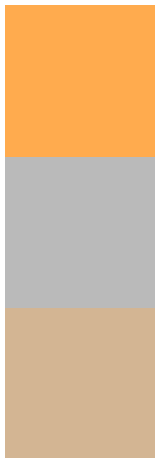
**Deuteranomaly**

53.9888, 51.0208, 13.8400

**Tritanomaly**

59.7923, 50.7909, 31.4632

# Monochromacy



**Original Color**

57.1781, 50.9359, 14.0257

**Achromatopsia**

46.6715, 49.1021, 53.4722

**Achromatomaly**

48.6543, 49.0032, 34.4980

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 57.1781, 50.9359, 14.0257 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, 171, 78)` looks like.

```
.text, #text, p{  
    color:rgb(255, 171, 78)  
}
```

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, 171, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 171, 78) }
```

## Border

The CSS property to change the border of an element to XYZ 57.1781, 50.9359, 14.0257 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, 171, 78) }
```



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

```
.border{ border-color:rgb(255, 171, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 171, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 171, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 171, 78);  
box-shadow:4px 4px 4px 4px rgb(255, 171,  
78) }
```

# Background

The CSS property to change the background color of an element to XYZ 57.1781, 50.9359, 14.0257 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 171, 78) }
```

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

```
.background{ background-color: rgb(255,  
171, 78) }
```

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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