

# Converting Colors

XYZ(50.7729, 40.1180, 5.7482)

Have a look what the booklet for  
XYZ(50.7729, 40.1180, 5.7482)  
contains.

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# Color

**XYZ(50.7444, 40.0667,  
5.7209)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8C14
RGB	255, 140, 20
RGB Percent	100%, 55%, 8%
CMY	0.0000, 0.4509, 0.9215
CMYK	0.00, 0.45, 0.92, 0.00
HSL	31°, 100%, 54%
HSV	31°, 92%, 100%
XYZ	50.7444, 40.0667, 5.7209
YIQ	160.7050, 107.0600, -12.9400

# Conversions

## Conversions Part 2

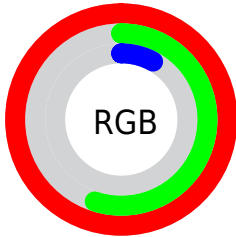
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 255, 20
Decimal	16747540
CIE Lab	69.52, 37.01, 72.53
CIE LCh	70, 81.432, 62.966
Yxy	40.0667, 0.5257, 0.4151
Android (android.graphics.Color)	4294937620 (0xFFFF8C14)
YUV	160.7050, -69.3676, 82.6967
Hunter-Lab	63.2983, 32.3264, 38.9502

# Details

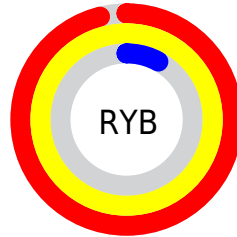
The XYZ color **50.7444, 40.0667, 5.7209** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **27.0021, 24.6960, 97.9507**, and the grayscale version is **34.0177, 35.7893, 38.9746**.

A 20% lighter version of the original color is **62.2781, 60.8994, 16.4550**, and **24.9756, 18.0558, 2.1688** is the 20% darker color. If you saturate the color by 10%, you get **49.2514, 37.2832, 4.6005**, and if you desaturate by 10%, it is **53.0305, 44.0678, 8.2449**.

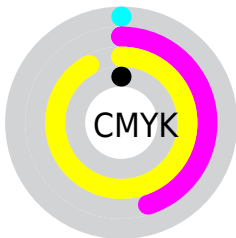
# Distribution



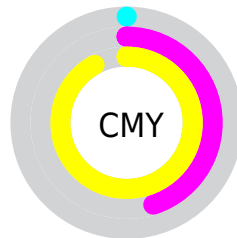
- Red (100%)
- Green (55%)
- Blue (8%)



- Red (96%)
- Yellow (100%)
- Blue (8%)



- Cyan (0%)
- Magenta (45%)
- Yellow (92%)
- Black (0%)




- Cyan (0%)
- Magenta (45%)
- Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.7444, 40.0667, 5.7209 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 50.7444, 40.0667, 5.7209 by changing the saturation by 10% instead.




 50.7444, 40.0667,  
5.7209


 50.7444, 40.0667,  
5.7209


379.9740,  
346.4046, 165.7724

 36.2254, 27.5906,  
2.6101


 90.4621, 75.2651,  
17.8163


 24.7793, 18.0172,  
0.8977


 116.3915, 98.7561,  
27.6381

 16.0405, 10.9624,  
0.0000


 146.8552,  
126.6875, 40.5338

 9.6439, 6.0415,  
0.0000

 182.2184,  
159.4437, 56.9222

 5.2239, 2.8704,  
0.0000

 222.8465,  
197.4092, 77.2217

 2.4153, 1.0644,  
0.0000

 269.1049,

 0.8528, 0.0000,

240.9682, 101.8509

0.0000

321.3589,  
290.5052, 131.2282

■ 0.0000, 0.0000,  
0.0000

■ 50.7444, 40.0667,  
5.7209

■ 50.7444, 40.0667,  
5.7209

■ 49.2514, 37.2832,  
4.6005

■ 53.0305, 44.0678,  
8.2449

■ 55.8259, 48.6122,  
12.4030

■ 59.1841, 53.7330,  
18.4410

■ 63.1492, 59.4576,  
26.5624

■ 67.7601, 65.8107,  
36.9437

73.0521, 72.8153,  
49.7426

79.0574, 80.4929,  
65.1023

85.8059, 88.8638,  
83.1550

93.3257, 97.9473,  
104.0234

# Harmonies

## Analogous

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



63.4251, 40.0667, 14.9300



50.7444, 40.0667, 5.7209



36.7912, 40.0667, 3.9343

# Triad

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



50.7444, 40.0667, 5.7209



18.0288, 40.0667, 47.4737



53.5329, 40.0667, 136.7128

# Complementary

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



50.7444, 40.0667, 5.7209



27.0021, 24.6960, 97.9507

# 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.



39.4031, 40.0667, 162.9468



50.7444, 40.0667, 5.7209



20.5890, 40.0667, 95.9622

# Square

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



50.7444, 40.0667, 5.7209



19.7345, 40.0667, 18.3289



27.7238, 40.0667, 144.8792



65.2777, 40.0667, 85.4176



# Rectangle

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



50.7444, 40.0667, 5.7209



29.0588, 40.0667, 5.1792



27.7238, 40.0667, 144.8792



48.8033, 40.0667, 149.7602

# Sweetspot

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



50.7453, 40.0689, 5.7216



75.4591, 75.9224, 55.8052



46.0415, 23.5810, 25.9814



15.6168, 15.5603, 10.5987



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.



50.7453, 40.0689, 5.7216



49.2517, 37.2834, 4.6006



77.1258, 92.8299, 14.5151



18.7763, 19.5208, 18.9226



25.8851, 19.7814, 2.4539



2.6297, 2.1448, 0.2754



# Inverse Universe

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



27.0021, 24.6960, 97.9507



25.3560, 21.8320, 97.4853



18.5888, 7.8693, 95.1463



17.7369, 18.8454, 22.9526



13.3975, 11.7046, 50.9877



1.4134, 1.3575, 5.0008



# Previews

## White Background



This preview shows how the XYZ color 50.7444, 40.0667, 5.7209 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 50.7444, 40.0667, 5.7209 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 50.7444, 40.0667, 5.7209**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.7444, 40.0667, 5.7209.



This preview shows how white text looks on a background with the XYZ color 50.7444, 40.0667,



# 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

50.7444, 40.0667, 5.7209

### Protanopia

36.5229, 40.4210, 7.0395

### Deuteranopia

40.7692, 39.9368, 5.5598



## Tritanopia

54.5100, 39.9881, 30.4367

# Trichromacy



## Original Color

50.7444, 40.0667, 5.7209

## Protanomaly

40.7816, 39.6633, 6.4836

## Deuteranomaly

44.0627, 39.6208, 5.5262

## Tritanomaly

52.2488, 39.7502, 16.4740

# Monochromacy



## Original Color

50.7444, 40.0667, 5.7209

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

36.7114, 35.5104, 19.6711

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.7444, 40.0667, 5.7209 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, 140, 20)` looks like.

```
.text, #text, p{  
    color:rgb(255, 140, 20)  
}
```

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, 140, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 140, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 50.7444, 40.0667, 5.7209 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, 140, 20) }
```



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

```
.border{ border-color:rgb(255, 140, 20) }
```

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

Here you see how a box with a 4 pixel rgb(255, 140, 20) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 140, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 140, 20);  
box-shadow:4px 4px 4px 4px rgb(255, 140,  
20) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.7444, 40.0667, 5.7209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 140, 20) }
```

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

```
.background{ background-color: rgb(255,  
140, 20) }
```

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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