

# Converting Colors

XYZ(50.9327, 40.6454, 5.1609)

Have a look what the booklet for  
XYZ(50.9327, 40.6454, 5.1609)  
contains.

<b>XYZ(50.9130, 40.6060, 5.1543)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(50.9130, 40.6060,  
5.1543)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8E00
RGB	255, 142, 0
RGB Percent	100%, 56%, 0%
CMY	0.0000, 0.4431, 1.0000
CMYK	0.00, 0.44, 1.00, 0.00
HSL	33°, 100%, 50%
HSV	33°, 100%, 100%
XYZ	50.9130, 40.6060, 5.1543
YIQ	159.5990, 112.9300, -20.2060

# Conversions

## Conversions Part 2

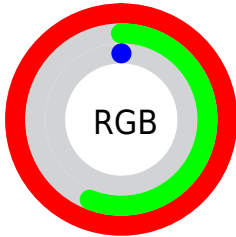
Format	Color
R <sub>Y</sub> B	203, 255, 0
Decimal	16748032
CIE Lab	69.90, 35.81, 75.75
CIE LCh	70, 83.792, 64.696
Yxy	40.6060, 0.5267, 0.4200
Android (android.graphics.Color)	4294938112 (0xFFFF8E00)
YUV	159.5990, -78.6823, 83.6667
Hunter-Lab	63.7228, 31.1022, 39.8102

# Details

The XYZ color **50.9130, 40.6060, 5.1543** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **23.9553, 19.0307, 97.0177**, and the grayscale version is **33.5449, 35.2918, 38.4328**.

A 20% lighter version of the original color is **62.4763, 61.7005, 15.2731**, and **25.1420, 18.3887, 2.2242** is the 20% darker color. If you saturate the color by 10%, you get **50.9131, 40.6067, 5.1545**, and if you desaturate by 10%, it is **52.8623, 44.2155, 6.6971**.

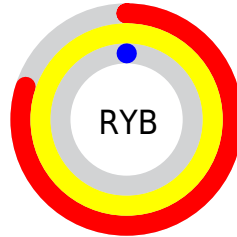
# Distribution



Red (100%)

Green (56%)

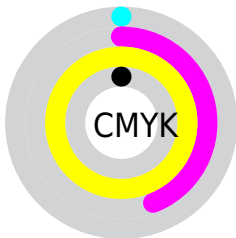
Blue (0%)



Red (80%)

Yellow (100%)

Blue (0%)

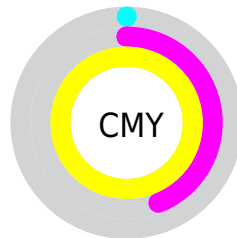


Cyan (0%)

Magenta (44%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (44%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.9130, 40.6060, 5.1543 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 50.9130, 40.6060, 5.1543 by changing the saturation by 10% instead.



50.9130, 40.6060,  
5.1543

50.9130, 40.6060,  
5.1543

380.6189,  
348.6712, 160.3015

36.3601, 28.0113,  
2.2778

90.7099, 76.0854,  
16.5948

24.8839, 18.3342,  
0.7187

116.6847, 99.7390,  
25.9959

16.1188, 11.1902,  
0.0000

147.1974,  
127.8477, 38.4089

9.6997, 6.1949,  
0.0000

182.6136,  
160.7958, 54.2523

5.2610, 2.9640,  
0.0000

223.2984,  
198.9678, 73.9447


2.4375, 1.1129,  
0.0000

269.6174,


0.8639, 0.0000,


242.7482, 97.9047


0.0000


 321.9358,  
292.5211, 126.5508


 0.0000, 0.0000,  
0.0000


 50.9130, 40.6060,  
5.1543


 50.9130, 40.6060,  
5.1543


 50.9131, 40.6067,  
5.1545

 52.8623, 44.2155,  
6.6971

 55.2218, 48.2677,  
9.5393

 58.0690, 52.8028,  
14.0623

 61.4526, 57.8476,  
20.4999

 65.4137, 63.4253,  
29.0481

69.9889, 69.5572,  
39.8785

75.2111, 76.2631,  
53.1447

81.1106, 83.5612,  
68.9870

87.7156, 91.4690,  
87.5347

# Harmonies

## Analogous

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



64.3960, 40.6060, 13.7766



50.9130, 40.6060, 5.1543



36.4892, 40.6060, 3.6676

# Triad

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



50.9130, 40.6060, 5.1543



17.9270, 40.6060, 50.6454



55.5140, 40.6060, 139.0648

# Complementary

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



50.9130, 40.6060, 5.1543



23.9553, 19.0307, 97.0177

# 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.



40.7799, 40.6060, 169.1057



50.9130, 40.6060, 5.1543



20.8109, 40.6060, 102.1631

# Square

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



50.9130, 40.6060, 5.1543



19.4219, 40.6060, 19.2688



28.4433, 40.6060, 152.6745



67.4610, 40.6060, 84.6708



# Rectangle

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



50.9130, 40.6060, 5.1543



28.6496, 40.6060, 5.0743



28.4433, 40.6060, 152.6745



50.6102, 40.6060, 153.4453

# Sweetspot

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



50.9139, 40.6082, 5.1550



75.2093, 76.2608, 53.1390



44.3202, 22.4922, 18.1515



15.6093, 15.7026, 10.1113



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.



50.9139, 40.6082, 5.1550



50.9135, 40.6071, 5.1545



72.4635, 90.4409, 13.6379



18.8483, 19.6649, 18.9466



26.7548, 21.5208, 2.7438



2.7140, 2.3134, 0.3035



# Inverse Universe

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



23.9553, 19.0307, 97.0177



23.9547, 19.0295, 97.0182



18.2124, 7.3039, 95.0569



17.6655, 18.7026, 22.9288



12.6602, 10.2299, 50.7419



1.3395, 1.2097, 4.9762



# Previews

## White Background



This preview shows how the XYZ color 50.9130, 40.6060, 5.1543 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 50.9130, 40.6060, 5.1543 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 50.9130, 40.6060, 5.1543**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.9130, 40.6060, 5.1543.



This preview shows how white text looks on a background with the XYZ color 50.9130, 40.6060,



# 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

50.9130, 40.6060, 5.1543

### Protanopia

36.8802, 40.8966, 6.6595

### Deuteranopia

41.2392, 40.4396, 5.6321



## Tritanopia

54.9380, 40.6016, 31.3269

# Trichromacy



## Original Color

50.9130, 40.6060, 5.1543

## Protanomaly

41.1364, 40.1177, 5.9561

## Deuteranomaly

44.3545, 40.2657, 5.4343

## Tritanomaly

52.2602, 40.2097, 15.1320

# Monochromacy



## Original Color

50.9130, 40.6060, 5.1543

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

36.2952, 35.3439, 17.4795

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.9130, 40.6060, 5.1543 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, 142, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 142, 0)  
}
```

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, 142, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 142, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 50.9130, 40.6060, 5.1543 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, 142, 0) }
```



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

```
.border{ border-color:rgb(255, 142, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 142, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 142, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 142, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 142,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.9130, 40.6060, 5.1543 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 142, 0) }
```

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

```
.background{ background-color: rgb(255,  
142, 0) }
```

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