

Converting Colors

XYZ(50.6942, 40.1685, 5.0814)

Have a look what the booklet for
XYZ(50.6942, 40.1685, 5.0814)
contains.

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Color

**XYZ(50.7649, 40.3098,
5.1050)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8D00
RGB	255, 141, 0
RGB Percent	100%, 55%, 0%
CMY	0.0000, 0.4470, 0.9999
CMYK	0.00, 0.45, 1.00, 0.00
HSL	33°, 100%, 50%
HSV	33°, 100%, 100%
XYZ	50.7649, 40.3098, 5.1050
YIQ	159.0120, 113.2050, -19.6830

Conversions

Conversions Part 2

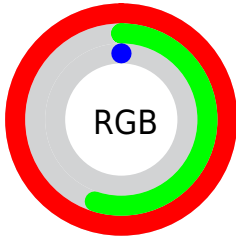
Format	Color
R_{YB}	206, 255, 0
Decimal	16747776
CIE _{Lab}	69.69, 36.32, 75.62
CIE _{LCh}	70, 83.894, 64.344
Yxy	40.3098, 0.5278, 0.4191
Android (android.graphics.Color)	4294937856 (0xFFFF8D00)
YUV	159.0120, -78.3929, 84.1815
Hunter-Lab	63.4900, 31.6163, 39.6757

Details

The XYZ color **50.7649, 40.3098, 5.1050** 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 **24.0678, 19.2555, 97.0551**, and the grayscale version is **33.2732, 35.0060, 38.1215**.

A 20% lighter version of the original color is **62.0251, 60.7982, 15.1228**, and **25.0582, 18.2211, 2.1963** is the 20% darker color. If you saturate the color by 10%, you get **50.7649, 40.3102, 5.1051**, and if you desaturate by 10%, it is **52.7152, 43.9213, 6.6482**.

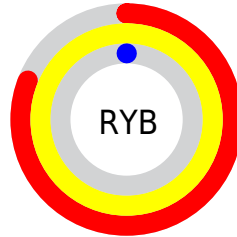
Distribution



Red (100%)

Green (55%)

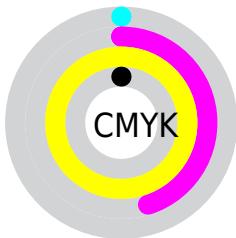
Blue (0%)



Red (81%)

Yellow (100%)

Blue (0%)

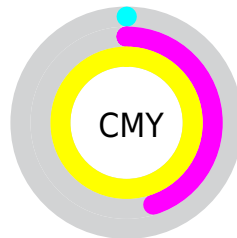


Cyan (0%)

Magenta (45%)

Yellow (100%)

Black (0%)



Cyan (0%)


Magenta (45%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 50.7649, 40.3098, 5.1050 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 50.7649, 40.3098, 5.1050 by changing the saturation by 10% instead.


 50.7649, 40.3098,
5.1050


 50.7649, 40.3098,
5.1050


380.0524,
347.4276, 159.8129


 36.2418, 27.7802,
2.2492


 90.4922, 75.6350,
16.4872


 24.7920, 18.1600,
0.7025


 116.4272, 99.1994,
25.8507


 16.0501, 11.0649,
0.0000


 146.8968,
127.2109, 38.2205

 9.6507, 6.1105,
0.0000

 182.2664,
160.0538, 54.0151

 5.2284, 2.9124,
0.0000

 222.9015,
198.1125, 73.6531

 2.4180, 1.0862,
0.0000

 269.1672,

 0.8541, 0.0000,

241.7714, 97.5531

0.0000

321.4291,
291.4150, 126.1335

0.0000, 0.0000,
0.0000

50.7649, 40.3098,
5.1050

50.7649, 40.3098,
5.1050

50.7649, 40.3102,
5.1051

52.7152, 43.9213,
6.6482

55.0785, 47.9810,
9.4917

57.9324, 52.5294,
14.0171

61.3256, 57.5934,
20.4581

65.2995, 63.1966,
29.0107

69.8907, 69.3606,
39.8466

75.1323, 76.1052,
53.1195

81.0547, 83.4490,
68.9696

87.6861, 91.4096,
87.5264

Harmonies

Analogous

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



64.1644, 40.3098, 13.7789



50.7649, 40.3098, 5.1050



36.3696, 40.3098, 3.5825

Triad

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



50.7649, 40.3098, 5.1050



17.7318, 40.3098, 49.8010



55.0100, 40.3098, 139.0927

Complementary

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



50.7649, 40.3098, 5.1050



24.0678, 19.2555, 97.0551

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.



40.3250, 40.3098, 168.6264



50.7649, 40.3098, 5.1050



20.5473, 40.3098, 101.0287

Square

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



50.7649, 40.3098, 5.1050



19.2694, 40.3098, 18.8247



28.0849, 40.3098, 151.6729



66.9938, 40.3098, 84.8745

Rectangle

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



50.7649, 40.3098, 5.1050



28.5276, 40.3098, 4.9345



28.0849, 40.3098, 151.6729



50.1141, 40.3098, 153.3327

Sweetspot

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



50.7658, 40.3120, 5.1057



75.1301, 76.1023, 53.1126



44.3203, 22.4923, 18.1518



15.5905, 15.6650, 10.1050



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.



50.7658, 40.3120, 5.1057



50.7653, 40.3106, 5.1051



72.4635, 90.4409, 13.6380



18.8422, 19.6526, 18.9446



26.6773, 21.3659, 2.7180



2.7066, 2.2985, 0.3010

Inverse Universe

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



24.0678, 19.2555, 97.0551



24.0670, 19.2540, 97.0557



18.2125, 7.3040, 95.0569



17.6715, 18.7147, 22.9309



12.7194, 10.3483, 50.7616



1.3455, 1.2217, 4.9782

Previews

White Background



This preview shows how the XYZ color 50.7649, 40.3098, 5.1050 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 50.7649, 40.3098, 5.1050 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 50.7649, 40.3098, 5.1050

Background



This preview shows how black text looks on a background with the XYZ color 50.7649, 40.3098, 5.1050.



This preview shows how white text looks on a background with the XYZ color 50.7649, 40.3098,

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

50.7649, 40.3098, 5.1050

Protanopia

36.6906, 40.5174, 6.5963

Deuteranopia

41.2392, 40.4396, 5.6321



Tritanopia

54.7230, 40.2934, 30.8798

Trichromacy



Original Color

50.7649, 40.3098, 5.1050

Protanomaly

40.9624, 39.7696, 5.8981

Deuteranomaly

44.1887, 39.9342, 5.3791

Tritanomaly

52.0740, 39.9067, 14.8557

Monochromacy



Original Color

50.7649, 40.3098, 5.1050

Achromatopsia

32.9542, 34.6704, 37.7561

Achromatomaly

35.8253, 34.8654, 17.1534

CSS Examples

Text

The CSS property to change the color of the text to XYZ 50.7649, 40.3098, 5.1050 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, 141, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 141, 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, 141, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 141, 0) }
```

Border

The CSS property to change the border of an element to XYZ 50.7649, 40.3098, 5.1050 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, 141, 0) }
```


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

```
.border{ border-color:rgb(255, 141, 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, 141, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 141, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 141, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 141,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 50.7649, 40.3098, 5.1050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 141, 0) }
```

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

```
.background{ background-color: rgb(255,  
141, 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](#).

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