

# Converting Colors

XYZ(51.3604, 40.2106, 4.0672)

Have a look what the booklet for  
XYZ(51.3604, 40.2106, 4.0672)  
contains.

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# Color

**XYZ(50.4726, 39.7252,  
5.0075)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8B00
RGB	255, 139, 0
RGB Percent	100%, 55%, 0%
CMY	0.0000, 0.4549, 1.0000
CMYK	0.00, 0.45, 1.00, 0.00
HSL	33°, 100%, 50%
HSV	33°, 100%, 100%
XYZ	50.4726, 39.7252, 5.0075
YIQ	157.8380, 113.7550, -18.6370

# Conversions

## Conversions Part 2

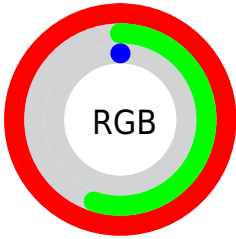
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	213, 255, 0
Decimal	16747264
CIE <sub>Lab</sub>	69.27, 37.34, 75.37
CIE <sub>LCh</sub>	69, 84.109, 63.646
Yxy	39.7252, 0.5301, 0.4173
Android (android.graphics.Color)	4294937344 (0xFFFF8B00)
YUV	157.8380, -77.8141, 85.2111
Hunter-Lab	63.0279, 32.6435, 39.4090

# Details

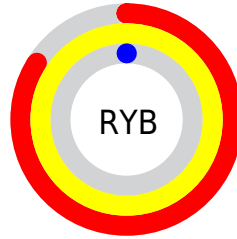
The XYZ color **50.4726, 39.7252, 5.0075** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **24.2956, 19.7111, 97.1311**, and the grayscale version is **32.7332, 34.4378, 37.5028**.

A 20% lighter version of the original color is **61.5800, 59.9079, 14.9744**, and **24.8941, 17.8928, 2.1416** is the 20% darker color. If you saturate the color by 10%, you get **50.4727, 39.7260, 5.0077**, and if you desaturate by 10%, it is **52.4242, 43.3393, 6.5511**.

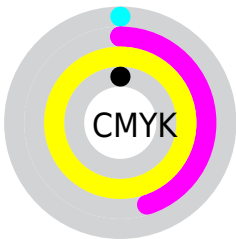
# Distribution



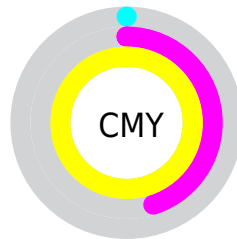
- Red (100%)
- Green (55%)
- Blue (0%)



- Red (84%)
- 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 50.4726, 39.7252, 5.0075 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 50.4726, 39.7252, 5.0075 by changing the saturation by 10% instead.





 50.4726, 39.7252,  
5.0075


 50.4726, 39.7252,  
5.0075


378.9327,  
344.9640, 158.8402


 36.0084, 27.3244,  
2.1928


 90.0623, 74.7449,  
16.2737


 24.6108, 17.8170,  
0.6702


 115.9186, 98.1325,  
25.5624


 15.9145, 10.8187,  
0.0000


 146.3029,  
125.9512, 37.8462

 9.5541, 5.9450,  
0.0000

 181.5806,  
158.5853, 53.5436

 5.1643, 2.8117,  
0.0000

 222.1171,  
196.4192, 73.0731


 2.3798, 1.0342,  
0.0000

 268.2777,


 0.8350, 0.0000,


239.8374, 96.8534

0.0000


 320.4278,  
289.2242, 125.3029


 0.0000, 0.0000,  
0.0000


 50.4726, 39.7252,  
5.0075


 50.4726, 39.7252,  
5.0075


 50.4727, 39.7260,  
5.0077

 52.4242, 43.3393,  
6.5511

 54.7943, 47.4126,  
9.3967

 57.6607, 51.9862,  
13.9261

 61.0725, 57.0874,  
20.3730

 65.0713, 62.7406,  
28.9338

69.6940, 68.9676,  
39.7800

74.9739, 75.7887,  
53.0654

80.9415, 83.2232,  
68.9303

87.6255, 91.2888,  
87.5044

# Harmonies

## Analogous

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



63.7074, 39.7252, 13.7833



50.4726, 39.7252, 5.0075



36.1332, 39.7252, 3.4169

# Triad

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



50.4726, 39.7252, 5.0075



17.3474, 39.7252, 48.1484



54.0169, 39.7252, 139.1557

# Complementary

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



50.4726, 39.7252, 5.0075



24.2956, 19.7111, 97.1311

# 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.



39.4300, 39.7252, 167.6837



50.4726, 39.7252, 5.0075



20.0290, 39.7252, 98.7985

# Square

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



50.4726, 39.7252, 5.0075



18.9682, 39.7252, 17.9605



27.3804, 39.7252, 149.6988



66.0722, 39.7252, 85.2852



# Rectangle

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



50.4726, 39.7252, 5.0075



28.2863, 39.7252, 4.6635



27.3804, 39.7252, 149.6988



49.1373, 39.7252, 153.1171

# Sweetspot

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



50.4735, 39.7273, 5.0082



74.9722, 75.7865, 53.0600



44.5699, 22.5921, 19.4660



15.5531, 15.5901, 10.0925



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.



50.4735, 39.7273, 5.0082



50.4731, 39.7263, 5.0077



73.9412, 91.2027, 13.7071



18.8300, 19.6281, 18.9405



26.5246, 21.0604, 2.6671



2.6919, 2.2691, 0.2961



# Inverse Universe

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



24.2956, 19.7111, 97.1311



24.2950, 19.7099, 97.1317



18.1565, 7.2751, 95.0543



17.6836, 18.7389, 22.9349



12.8395, 10.5886, 50.8017



1.3577, 1.2460, 4.9822



# Previews

## White Background



This preview shows how the XYZ color 50.4726, 39.7252, 5.0075 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 50.4726, 39.7252, 5.0075 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 50.4726, 39.7252, 5.0075**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.4726, 39.7252, 5.0075.



This preview shows how white text looks on a background with the XYZ color 50.4726, 39.7252,



# 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

50.4726, 39.7252, 5.0075

### Protanopia

35.9959, 39.8800, 6.5099

### Deuteranopia

40.4764, 39.7859, 5.5461



## Tritanopia

54.2990, 39.6856, 29.9975

# Trichromacy



## Original Color

50.4726, 39.7252, 5.0075

## Protanomaly

40.2023, 39.1215, 5.8131

## Deuteranomaly

43.7043, 39.4405, 5.3093

## Tritanomaly

51.7494, 39.3261, 14.5361

# Monochromacy



## Original Color

50.4726, 39.7252, 5.0075

## Achromatopsia

32.4990, 34.1914, 37.2345

## Achromatomaly

35.4079, 34.4103, 17.0876

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.4726, 39.7252, 5.0075 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, 139, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 139, 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, 139, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 139, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 50.4726, 39.7252, 5.0075 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, 139, 0) }
```



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

```
.border{ border-color:rgb(255, 139, 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, 139, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 139, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 139, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 139,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.4726, 39.7252, 5.0075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 139, 0) }
```

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

```
.background{ background-color: rgb(255,  
139, 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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