

Converting Colors

XYZ(49.6869, 38.1537, 4.7456)

Have a look what the booklet for
XYZ(49.6869, 38.1537, 4.7456)
contains.

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Color

**XYZ(49.6275, 38.0351,
4.7258)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8500
RGB	255, 133, 0
RGB Percent	100%, 52%, 0%
CMY	0.0000, 0.4784, 1.0000
CMYK	0.00, 0.48, 1.00, 0.00
HSL	31°, 100%, 50%
HSV	31°, 100%, 100%
XYZ	49.6275, 38.0351, 4.7258
YIQ	154.3160, 115.4050, -15.4990

Conversions

Conversions Part 2

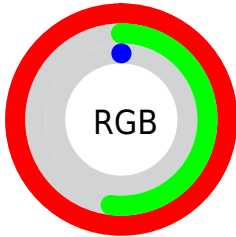
Format	Color
R _Y B	234, 255, 0
Decimal	16745728
CIE Lab	68.05, 40.35, 74.62
CIE LCh	68, 84.834, 61.597
Yxy	38.0351, 0.5372, 0.4117
Android (android.graphics.Color)	4294935808 (0xFFFF8500)
YUV	154.3160, -76.0778, 88.2999
Hunter-Lab	61.6726, 35.7106, 38.6276

Details

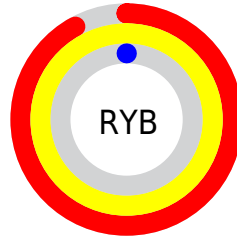
The XYZ color **49.6275, 38.0351, 4.7258** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **25.0094, 21.1388, 97.3689**, and the grayscale version is **31.1445, 32.7664, 35.6827**.

A 20% lighter version of the original color is **60.2464, 57.2951, 14.3623**, and **24.4283, 16.9612, 1.9863** is the 20% darker color. If you saturate the color by 10%, you get **49.6277, 38.0360, 4.7260**, and if you desaturate by 10%, it is **51.5778, 41.6466, 6.2689**.

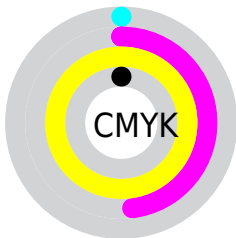
Distribution



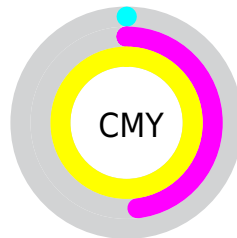
- Red (100%)
- Green (52%)
- Blue (0%)



- Red (92%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (48%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (48%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.6275, 38.0351, 4.7258 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 49.6275, 38.0351, 4.7258 by changing the saturation by 10% instead.


 49.6275, 38.0351,
4.7258


 49.6275, 38.0351,
4.7258


375.6836,
337.7705, 155.9800

 35.3341, 26.0099,
2.0314


 88.8178, 72.1619,
15.6518

 24.0881, 16.8311,
0.5745


 114.4455, 95.0324,
24.7205

 15.5241, 10.1141,
0.0000


 144.5820,
122.2867, 36.7510

 9.2767, 5.4747,
0.0000

 179.5925,
154.3093, 52.1619

 4.9807, 2.5284,
0.0000

 219.8427,
191.4846, 71.3717


 2.2706, 0.8908,
0.0000

 265.6976,


 0.7795, 0.0000,


234.1970, 94.7990


0.0000


 317.5228,
282.8308, 122.8622


 0.0000, 0.0000,
0.0000


 49.6275, 38.0351,
4.7258


 49.6275, 38.0351,
4.7258


 49.6277, 38.0360,
4.7260

 51.5778, 41.6466,
6.2689

 53.9633, 45.7509,
9.1196

 56.8630, 50.3909,
13.6599

 60.3266, 55.5959,
20.1240

 64.3966, 61.3915,
28.7084

69.1108, 67.8014,
39.5849

74.5031, 74.8475,
52.9076

80.6049, 82.5503,
68.8171

87.4453, 90.9290,
87.4431

Harmonies

Analogous

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



62.3848, 38.0351, 13.7990



49.6275, 38.0351, 4.7258



35.4481, 38.0351, 2.9556

Triad

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



49.6275, 38.0351, 4.7258



16.2431, 38.0351, 43.4739



51.1571, 38.0351, 139.3935

Complementary

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



49.6275, 38.0351, 4.7258



25.0094, 21.1388, 97.3689

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.



36.8636, 38.0351, 164.9689



49.6275, 38.0351, 4.7258



18.5470, 38.0351, 92.4068

Square

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



49.6275, 38.0351, 4.7258



18.0972, 38.0351, 15.5560



25.3663, 38.0351, 143.9955



63.4086, 38.0351, 86.5409

Rectangle

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



49.6275, 38.0351, 4.7258



27.5859, 38.0351, 3.9182



25.3663, 38.0351, 143.9955



46.3280, 38.0351, 152.5348

Sweetspot

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



49.6283, 38.0372, 4.7265



74.5018, 74.8458, 52.9032



44.8308, 22.6964, 20.8403



15.4417, 15.3673, 10.0554



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.



49.6283, 38.0372, 4.7265



49.6282, 38.0364, 4.7261



75.4530, 91.9820, 13.7778



18.7933, 19.5548, 18.9283



26.0824, 20.1760, 2.5197



2.6490, 2.1833, 0.2818

Inverse Universe

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



25.0094, 21.1388, 97.3689



25.0089, 21.1379, 97.3696



18.1032, 7.2476, 95.0516



17.7200, 18.8115, 22.9470



13.2152, 11.3399, 50.9269



1.3953, 1.3213, 4.9948

Previews

White Background



This preview shows how the XYZ color 49.6275, 38.0351, 4.7258 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 49.6275, 38.0351, 4.7258 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 49.6275, 38.0351, 4.7258

Background



This preview shows how black text looks on a background with the XYZ color 49.6275, 38.0351, 4.7258.



This preview shows how white text looks on a background with the XYZ color 49.6275, 38.0351,

4.7258.

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

49.6275, 38.0351, 4.7258

Protanopia

34.7026, 38.3867, 6.3394

Deuteranopia

38.8052, 38.1554, 5.3195



Tritanopia

53.1324, 38.1600, 27.1195

Trichromacy



Original Color

49.6275, 38.0351, 4.7258

Protanomaly

38.9520, 37.4714, 5.5952

Deuteranomaly

42.1115, 37.6636, 5.0503

Tritanomaly

50.7299, 37.6164, 13.1813

Monochromacy



Original Color

49.6275, 38.0351, 4.7258

Achromatopsia

30.7148, 32.3143, 35.1903

Achromatomaly

33.9693, 32.5160, 16.0411

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6275, 38.0351, 4.7258 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, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 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, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.6275, 38.0351, 4.7258 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, 133, 0) }
```


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

```
.border{ border-color:rgb(255, 133, 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, 133, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.6275, 38.0351, 4.7258 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 0) }
```

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

```
.background{ background-color: rgb(255,  
133, 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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