

Converting Colors

XYZ(49.8600, 35.9694, 6.4974)

Have a look what the booklet for
XYZ(49.8600, 35.9694, 6.4974)
contains.

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Color

**XYZ(48.6175, 35.3462,
6.4506)**

Conversions

Conversions Part 1

Format	Color
Hex	FF7A2A
RGB	255, 122, 42
RGB Percent	100%, 48%, 16%
CMY	0.0000, 0.5215, 0.8353
CMYK	0.00, 0.52, 0.84, 0.00
HSL	23°, 100%, 58%
HSV	23°, 84%, 100%
XYZ	48.6175, 35.3462, 6.4506
YIQ	152.6470, 104.9480, 3.3160

Conversions

Conversions Part 2

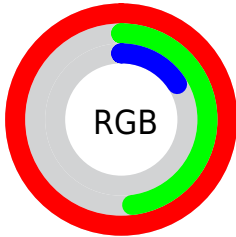
Format	Color
R _Y B	255, 170, 42
Decimal	16742954
CIE Lab	66.02, 46.35, 63.44
CIE LCh	66, 78.570, 53.849
Yxy	35.3462, 0.5377, 0.3909
Android (android.graphics.Color)	4294933034 (0xFFFF7A2A)
YUV	152.6470, -54.5490, 89.7636
Hunter-Lab	59.4527, 41.9264, 35.1839

Details

The XYZ color **48.6175, 35.3462, 6.4506** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **34.3337, 38.3700, 100.2038**, and the grayscale version is **30.3236, 31.9028, 34.7421**.

A 20% lighter version of the original color is **59.0277, 53.5305, 18.0478**, and **23.6140, 15.3326, 1.7149** is the 20% darker color. If you saturate the color by 10%, you get **46.5000, 31.6247, 4.1635**, and if you desaturate by 10%, it is **51.3465, 39.8281, 10.3710**.

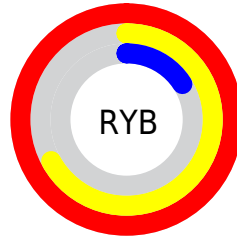
Distribution



Red (100%)

Green (48%)

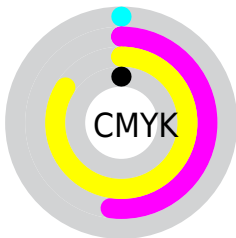
Blue (16%)



Red (100%)

Yellow (67%)

Blue (16%)

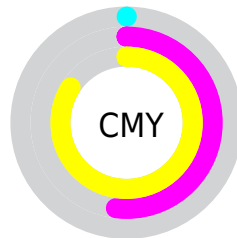


Cyan (0%)

Magenta (52%)

Yellow (84%)

Black (0%)



Cyan (0%)


Magenta (52%)


Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.6175, 35.3462, 6.4506 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 48.6175, 35.3462, 6.4506 by changing the saturation by 10% instead.


 48.6175, 35.3462,
6.4506


 48.6175, 35.3462,
6.4506


371.7765,
326.0938, 172.4711


 34.5294, 23.9297,
3.0478


 87.3272, 68.0217,
19.3528


 23.4654, 15.2815,
1.1191


 112.6796, 90.0496,
29.6893


 15.0601, 9.0172,
0.0000


 142.5175,
116.3832, 43.1740

 8.9482, 4.7524,
0.0000

 177.2062,
147.4072, 60.2256

 4.7642, 2.1027,
0.0000

 217.1111,
183.5059, 81.2626

 2.1429, 0.6662,
0.0000

 262.5976,

 0.7124, 0.0000,

225.0636, 106.7035

0.0000

314.0309,
272.4648, 136.9668

■ 0.0000, 0.0000,
0.0000

■ 48.6175, 35.3462,
6.4506

■ 48.6175, 35.3462,
6.4506

■ 46.5000, 31.6247,
4.1635

■ 51.3465, 39.8281,
10.3710

■ 45.4028, 29.5859,
3.3177

■ 54.7468, 45.1125,
16.1788

■ 58.8720, 51.2444,
24.0850

■ 63.7688, 58.2631,
34.2717

■ 69.4792, 66.2048,
46.9010

76.0423, 75.1039,
62.1201

83.4941, 84.9926,
80.0644

91.8686, 95.9016,
100.8598

95.0498, 99.9999,
108.9000

Harmonies

Analogous

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



58.5291, 35.3462, 17.9387



48.6175, 35.3462, 6.4506



36.0532, 35.3462, 3.4507

Triad

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



48.6175, 35.3462, 6.4506



15.8835, 35.3462, 32.0134



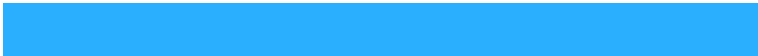
43.4905, 35.3462, 132.0262

Complementary

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



48.6175, 35.3462, 6.4506



34.3337, 38.3700, 100.2038

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.



31.2521, 35.3462, 143.9897



48.6175, 35.3462, 6.4506



16.9908, 35.3462, 70.6873

Square

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



48.6175, 35.3462, 6.4506



18.5603, 35.3462, 11.6912



22.0384, 35.3462, 117.0004



55.1224, 35.3462, 90.0886

Rectangle

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



48.6175, 35.3462, 6.4506



28.5140, 35.3462, 3.7591



22.0384, 35.3462, 117.0004



39.2475, 35.3462, 140.4153

Sweetspot

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



48.6183, 35.3482, 6.4512



75.0218, 73.7332, 59.7124



49.9938, 26.0864, 43.9433



15.5526, 15.0998, 11.6012



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.



48.6183, 35.3482, 6.4512



45.4030, 29.5861, 3.3177



69.0175, 76.1466, 13.2509



18.5684, 19.1049, 18.8533



23.8556, 15.7225, 1.7774



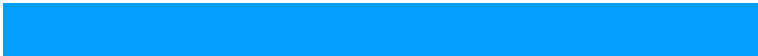
2.4236, 1.7327, 0.2067

Inverse Universe

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



34.3337, 38.3700, 100.2038



30.4856, 32.0912, 99.1952



21.2203, 12.1431, 95.8326



17.9480, 19.2676, 23.0230



16.0776, 17.0648, 51.8810



1.6705, 1.8718, 5.0865

Previews

White Background



This preview shows how the XYZ color 48.6175, 35.3462, 6.4506 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 48.6175, 35.3462, 6.4506 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 48.6175, 35.3462, 6.4506

Background



This preview shows how black text looks on a background with the XYZ color 48.6175, 35.3462, 6.4506.



This preview shows how white text looks on a background with the XYZ color 48.6175, 35.3462,

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

48.6175, 35.3462, 6.4506

Protanopia

32.1871, 35.4410, 8.3932

Deuteranopia

36.2294, 35.5628, 6.0534



Tritanopia

51.2394, 35.4378, 23.2084

Trichromacy



Original Color

48.6175, 35.3462, 6.4506

Protanomaly

36.6993, 34.3462, 7.4915

Deuteranomaly

40.0717, 34.9854, 6.0797

Tritanomaly

49.8572, 35.2618, 14.7681

Monochromacy



Original Color

48.6175, 35.3462, 6.4506

Achromatopsia

30.2779, 31.8547, 34.6897

Achromatomaly

33.8888, 31.4854, 19.9139

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.6175, 35.3462, 6.4506 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, 122, 42)` looks like.

```
.text, #text, p{  
    color:rgb(255, 122, 42)  
}
```

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, 122, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 122, 42) }
```

Border

The CSS property to change the border of an element to XYZ 48.6175, 35.3462, 6.4506 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, 122, 42) }
```


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

```
.border{ border-color:rgb(255, 122, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 122, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 122, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 122, 42);  
box-shadow:4px 4px 4px 4px rgb(255, 122,  
42) }
```

Background

The CSS property to change the background color of an element to XYZ 48.6175, 35.3462, 6.4506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 122, 42) }
```

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

```
.background{ background-color: rgb(255,  
122, 42) }
```

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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