

Converting Colors

XYZ(51.7916, 46.5989, 6.2648)

Have a look what the booklet for
XYZ(51.7916, 46.5989, 6.2648)
contains.

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Color

**XYZ(51.8129, 46.6844,
6.2802)**

Conversions

Conversions Part 1

Format	Color
Hex	F7A500
RGB	247, 165, 0
RGB Percent	97%, 65%, 0%
CMY	0.0314, 0.3529, 0.9999
CMYK	0.00, 0.33, 1.00, 0.03
HSL	40°, 100%, 48%
HSV	40°, 100%, 97%
XYZ	51.8129, 46.6844, 6.2802
YIQ	170.7080, 101.8370, -33.9310

Conversions

Conversions Part 2

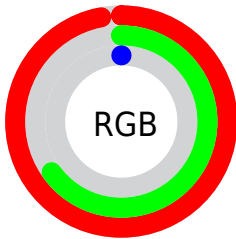
Format	Color
R_{YB}	123, 247, 0
Decimal	16229632
CIE _{Lab}	73.99, 20.57, 77.88
CIE _{LCh}	74, 80.548, 75.203
Yxy	46.6844, 0.4945, 0.4456
Android (android.graphics.Color)	4294419712 (0xFFFF7A500)
YUV	170.7080, -84.1590, 66.9081
Hunter-Lab	68.3260, 15.7895, 42.3785

Details

The XYZ color **51.8129, 46.6844, 6.2802** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **19.8066, 12.7515, 89.4123**, and the grayscale version is **38.9374, 40.9652, 44.6111**.

A 20% lighter version of the original color is **68.2445, 73.0109, 17.8928**, and **25.6723, 22.0006, 2.8935** is the 20% darker color. If you saturate the color by 10%, you get **51.8128, 46.6847, 6.2802**, and if you desaturate by 10%, it is **53.5131, 49.8095, 7.6975**.

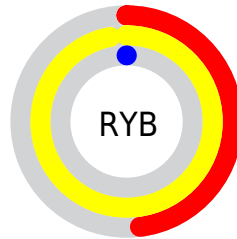
Distribution



Red (97%)

Green (65%)

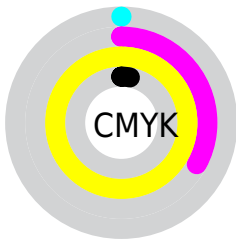
Blue (0%)



Red (48%)

Yellow (97%)

Blue (0%)

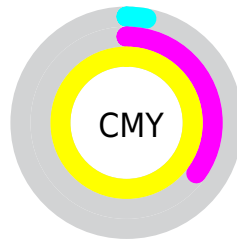


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (3%)



Cyan (3%)


Magenta (35%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 51.8129, 46.6844, 6.2802 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 51.8129, 46.6844, 6.2802 by changing the saturation by 10% instead.


 51.8129, 46.6844,
6.2802


 51.8129, 46.6844,
6.2802


384.0497,
373.5534, 170.9384

 37.0796, 32.7862,
2.9447


 92.0311, 85.2423,
18.9974

 25.4431, 21.9627,
1.0665

 118.2468,
110.6709, 29.2161

 16.5380, 13.8295,
0.0000

 149.0206,
140.7117, 42.5663

 9.9989, 8.0022,
0.0000

 184.7179,
175.7492, 59.4665

 5.4605, 4.0963,
0.0000

 225.7042,
216.1677, 80.3353

 2.5574, 1.7276,
0.0000

 272.3446,

 0.9243, 0.4414,

262.3516, 105.5912

0.0000

325.0047,
314.6854, 135.6527

■ 0.0000, 0.0000,
0.0000

■ 51.8129, 46.6844,
6.2802

■ 51.8129, 46.6844,
6.2802

■ 51.8128, 46.6847,
6.2802

■ 53.5131, 49.8095,
7.6975

■ 55.5273, 53.2126,
10.2966

■ 57.9257, 56.9266,
14.4342

■ 60.7506, 60.9709,
20.3253

■ 64.0378, 65.3625,
28.1501

■ 67.8186, 70.1163,
38.0665

■ 72.1214, 75.2461,
50.2158

■ 76.9719, 80.7647,
64.7269

■ 82.3943, 86.6839,
81.7190

Harmonies

Analogous

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



66.8382, 46.6844, 12.8073



51.8129, 46.6844, 6.2802



37.5104, 46.6844, 6.3164

Triad

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



51.8129, 46.6844, 6.2802



22.6849, 46.6844, 74.5481



67.0208, 46.6844, 129.5051

Complementary

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



51.8129, 46.6844, 6.2802



19.8066, 12.7515, 89.4123

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.



52.0235, 46.6844, 171.8947



51.8129, 46.6844, 6.2802



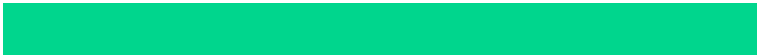
27.6057, 46.6844, 130.2482

Square

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



51.8129, 46.6844, 6.2802



22.6524, 46.6844, 33.1750



37.6802, 46.6844, 172.2228



76.8240, 46.6844, 73.8491

Rectangle

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



51.8129, 46.6844, 6.2802



30.2679, 46.6844, 9.7035



37.6802, 46.6844, 172.2228



62.2919, 46.6844, 146.8428

Sweetspot

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



51.8139, 46.6868, 6.2811



77.5129, 80.8678, 53.9069



39.8938, 20.3888, 9.8844



16.1580, 16.7999, 10.2942



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.



51.8139, 46.6868, 6.2811



55.6797, 50.1393, 6.7432



58.6685, 79.6193, 12.2764



17.4241, 18.3324, 17.4177



27.5381, 24.9617, 3.3667



2.5144, 2.3820, 0.3273

Inverse Universe

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



19.8066, 12.7515, 89.4123



21.2713, 13.6627, 96.1238



17.7102, 7.1909, 88.4495



16.0306, 16.8254, 20.9453



10.5905, 6.9748, 47.3261



1.0213, 0.7940, 4.1897

Previews

White Background



This preview shows how the XYZ color 51.8129, 46.6844, 6.2802 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 51.8129, 46.6844, 6.2802 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 51.8129, 46.6844, 6.2802

Background



This preview shows how black text looks on a background with the XYZ color 51.8129, 46.6844, 6.2802.



This preview shows how white text looks on a background with the XYZ color 51.8129, 46.6844,

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

51.8129, 46.6844, 6.2802

Protanopia

42.4883, 47.0293, 7.3685

Deuteranopia

47.5767, 46.7101, 6.5084



Tritanopia

59.0558, 46.5699, 41.4736

Trichromacy



Original Color

51.8129, 46.6844, 6.2802

Protanomaly

45.4045, 46.4470, 6.8887

Deuteranomaly

48.9668, 46.5823, 6.4105

Tritanomaly

54.3904, 45.6431, 19.3079

Monochromacy



Original Color

51.8129, 46.6844, 6.2802

Achromatopsia

38.7082, 40.7240, 44.3485

Achromatomaly

40.5015, 41.6222, 20.3672

CSS Examples

Text

The CSS property to change the color of the text to XYZ 51.8129, 46.6844, 6.2802 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(247, 165, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 165, 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(247, 165, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 165, 0) }
```

Border

The CSS property to change the border of an element to XYZ 51.8129, 46.6844, 6.2802 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(247, 165, 0) }
```


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

```
.border{ border-color:rgb(247, 165, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 165, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 165, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 165, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 165,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 51.8129, 46.6844, 6.2802 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 165, 0) }
```

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

```
.background{ background-color: rgb(247,  
165, 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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