

Converting Colors

XYZ(47.0358, 31.8864, 6.8376)

Have a look what the booklet for
XYZ(47.0358, 31.8864, 6.8376)
contains.

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Color

**XYZ(46.9916, 31.8071,
6.7946)**

Conversions

Conversions Part 1

Format	Color
Hex	FF6A33
RGB	255, 106, 51
RGB Percent	100%, 42%, 20%
CMY	0.0000, 0.5843, 0.8000
CMYK	0.00, 0.58, 0.80, 0.00
HSL	16°, 100%, 60%
HSV	16°, 80%, 100%
XYZ	46.9916, 31.8071, 6.7946
YIQ	144.2810, 106.4590, 14.4830

Conversions

Conversions Part 2

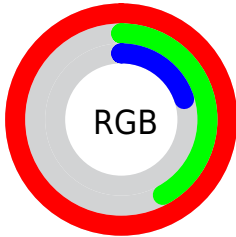
Format	Color
R_{YB}	255, 126, 51
Decimal	16738867
CIE _{Lab}	63.18, 54.06, 57.19
CIE _{LCh}	63, 78.698, 46.615
Yxy	31.8071, 0.5490, 0.3716
Android (android.graphics.Color)	4294928947 (0xFFFF6A33)
YUV	144.2810, -45.9875, 97.1006
Hunter-Lab	56.3978, 50.0331, 32.3354

Details

The XYZ color **46.9916, 31.8071, 6.7946** 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 **40.0675, 49.2284, 101.9973**, and the grayscale version is **26.7736, 28.1679, 30.6748**.

A 20% lighter version of the original color is **56.3831, 47.7090, 18.8074**, and **22.3758, 13.2284, 1.3740** is the 20% darker color. If you saturate the color by 10%, you get **44.8601, 28.2112, 4.0293**, and if you desaturate by 10%, it is **49.8490, 36.3632, 11.3207**.

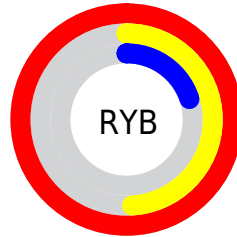
Distribution



Red (100%)

Green (42%)

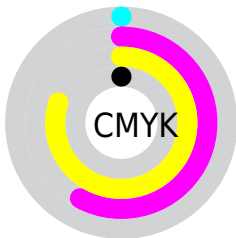
Blue (20%)



Red (100%)

Yellow (49%)

Blue (20%)

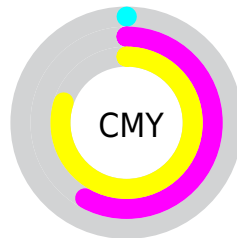


Cyan (0%)

Magenta (58%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (58%)


Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.9916, 31.8071, 6.7946 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 46.9916, 31.8071, 6.7946 by changing the saturation by 10% instead.


 46.9916, 31.8071,
6.7946


 46.9916, 31.8071,
6.7946


365.4305,
310.2396, 175.5116


 33.2369, 21.2142,
3.2575


 84.9199, 62.5086,
20.0646

 22.4681, 13.2807,
1.2276


 109.8242, 83.3859,
30.6345

 14.3198, 7.6221,
0.0013


 139.1759,
108.4602, 44.3858

 8.4266, 3.8541,
0.0000

 173.3401,
138.1158, 61.7370

 4.4232, 1.5923,
0.0000

 212.6823,
172.7372, 83.1066

 1.9442, 0.3524,
0.0000

 257.5679,

 0.6023, 0.0000,

212.7087, 108.9133

0.0000

308.3622,
258.4147, 139.5754

■ 0.0000, 0.0000,
0.0000

■ 46.9916, 31.8071,
6.7946

■ 46.9916, 31.8071,
6.7946

■ 44.8601, 28.2112,
4.0293

■ 49.8490, 36.3632,
11.3207

■ 43.3532, 25.4868,
2.6345

■ 53.4992, 41.9414,
17.8465

■ 43.3531, 25.4867,
2.6345

■ 58.0026, 48.6041,
26.5749

■ 63.4130, 56.4066,
37.6829

■ 69.7791, 65.4006,
51.3296

77.1463, 75.6342,
67.6603

85.5567, 87.1531,
86.8090

95.0497, 99.9999,
108.9000

Harmonies

Analogous

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



55.0247, 31.8071, 20.1751



46.9916, 31.8071, 6.7946



35.3358, 31.8071, 2.9343

Triad

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



46.9916, 31.8071, 6.7946



14.1098, 31.8071, 22.5358



36.6142, 31.8071, 129.5616

Complementary

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



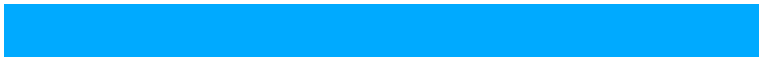
46.9916, 31.8071, 6.7946



40.0675, 49.2284, 101.9973

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.



25.6444, 31.8071, 131.6784



46.9916, 31.8071, 6.7946



14.2941, 31.8071, 54.7353

Square

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



46.9916, 31.8071, 6.7946



17.4382, 31.8071, 7.6327



18.0221, 31.8071, 98.9394



48.1188, 31.8071, 94.2114

Rectangle

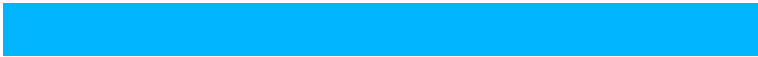
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.9916, 31.8071, 6.7946



27.8862, 31.8071, 2.7037



18.0221, 31.8071, 98.9394



32.7052, 31.8071, 134.6931

Sweetspot

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



46.9923, 31.8089, 6.7951



74.0765, 71.3888, 60.7964



52.9192, 27.8259, 57.5937



15.2998, 14.5073, 11.7842



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.



46.9923, 31.8089, 6.7951



43.8948, 26.4802, 3.0906



64.2471, 66.3185, 12.5467



18.4078, 18.7838, 18.7998



22.7577, 13.5266, 1.4114



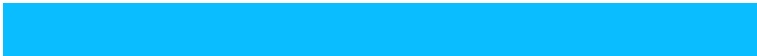
2.3015, 1.4884, 0.1660

Inverse Universe

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



40.0675, 49.2284, 101.9973



36.3731, 43.6766, 101.1211



23.8393, 16.7721, 96.5880



18.1163, 19.6041, 23.0791



18.7628, 22.4353, 52.7761



1.9173, 2.3653, 5.1688

Previews

White Background



This preview shows how the XYZ color 46.9916, 31.8071, 6.7946 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 46.9916, 31.8071, 6.7946 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 46.9916, 31.8071, 6.7946

Background



This preview shows how black text looks on a background with the XYZ color 46.9916, 31.8071, 6.7946.



This preview shows how white text looks on a background with the XYZ color 46.9916, 31.8071,

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

46.9916, 31.8071, 6.7946

Protanopia

29.2756, 32.1393, 9.5110

Deuteranopia

32.4676, 31.7282, 6.2466



Tritanopia

48.6981, 31.8455, 17.7675

Trichromacy



Original Color

46.9916, 31.8071, 6.7946

Protanomaly

34.0922, 30.7636, 8.2788

Deuteranomaly

36.8712, 31.0059, 6.3269

Tritanomaly

47.8105, 31.6486, 12.6057

Monochromacy



Original Color

46.9916, 31.8071, 6.7946

Achromatopsia

26.5089, 27.8894, 30.3716

Achromatomaly

30.5643, 27.2814, 18.4068

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.9916, 31.8071, 6.7946 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, 106, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 106, 51)  
}
```

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, 106, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 106, 51) }
```

Border

The CSS property to change the border of an element to XYZ 46.9916, 31.8071, 6.7946 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, 106, 51) }
```


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

```
.border{ border-color:rgb(255, 106, 51) }
```

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

Here you see how a box with a 4 pixel rgb(255, 106, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 106, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 106, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 106,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 46.9916, 31.8071, 6.7946 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 106, 51) }
```

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

```
.background{ background-color: rgb(255,  
106, 51) }
```

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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