

Converting Colors

XYZ(42.7766, 30.1699, 3.5688)

Have a look what the booklet for
XYZ(42.7766, 30.1699, 3.5688)
contains.

XYZ(42.7769, 30.1704, 3.5689)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(42.7769, 30.1704,
3.5689)**

Conversions

Conversions Part 1

Format	Color
Hex	F46D00
RGB	244, 109, 0
RGB Percent	96%, 43%, 0%
CMY	0.0431, 0.5725, 1.0000
CMYK	0.00, 0.55, 1.00, 0.04
HSL	27°, 100%, 48%
HSV	27°, 100%, 96%
XYZ	42.7769, 30.1704, 3.5689
YIQ	136.9390, 115.4490, -5.2790

Conversions

Conversions Part 2

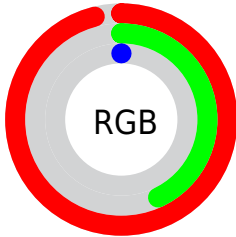
Format	Color
RYB	244, 197, 0
Decimal	16018688
CIELab	61.80, 47.82, 70.13
CIElCh	62, 84.887, 55.711
Yxy	30.1704, 0.5591, 0.3943
Android (android.graphics.Color)	4294208768 (0xFFFF46D00)
YUV	136.9390, -67.5109, 93.8925
Hunter-Lab	54.9276, 42.8902, 34.5970

Details

The XYZ color **42.7769, 30.1704, 3.5689** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **24.9929, 23.8591, 88.8753**, and the grayscale version is **23.9729, 25.2213, 27.4660**.

A 20% lighter version of the original color is **55.4114, 47.8841, 11.9523**, and **20.2366, 12.5316, 1.3523** is the 20% darker color. If you saturate the color by 10%, you get **42.7770, 30.1712, 3.5690**, and if you desaturate by 10%, it is **44.4992, 33.3448, 4.9774**.

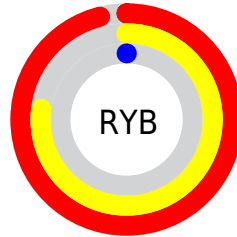
Distribution



Red (96%)

Green (43%)

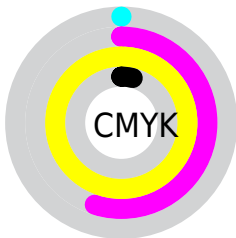
Blue (0%)



Red (96%)

Yellow (77%)

Blue (0%)

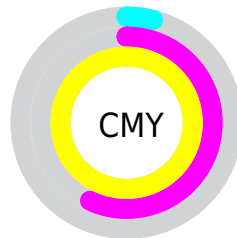


Cyan (0%)

Magenta (55%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (57%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7769, 30.1704, 3.5689 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 42.7769, 30.1704, 3.5689 by changing the saturation by 10% instead.

42.7769, 30.1704,
3.5689

42.7769, 30.1704,
3.5689

348.6306,
302.6979, 143.3059

29.9039, 19.9680,
1.3920

78.6319, 59.9316,
13.0026

19.9133, 12.3718,
0.1354

102.3446, 80.2591,
21.0965

12.4400, 6.9974,
0.0000

130.4012,
104.7304, 31.9998

7.1184, 3.4605,
0.0000

163.1671,
133.7299, 46.1310

3.5832, 1.3766,
0.0000

201.0076,
167.6420, 63.9087


1.4692, 0.1994,
0.0000

244.2881,


0.3047, 0.0000,


206.8511, 85.7513


0.0000


 293.3740,
251.7416, 112.0776


 0.0000, 0.0000,
0.0000


 42.7769, 30.1704,
3.5689


 42.7769, 30.1704,
3.5689


 42.7770, 30.1712,
3.5690

 44.4992, 33.3448,
4.9774

 46.6635, 37.0636,
7.5790

 49.3453, 41.3725,
11.7244

 52.5924, 46.3041,
17.6240

 56.4460, 51.8878,
25.4551

■ 60.9427, 58.1503,
35.3727

■ 66.1157, 65.1167,
47.5160

■ 71.9958, 72.8105,
62.0119

■ 78.6115, 81.2541,
78.9780

Harmonies

Analogous

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



53.1114, 30.1704, 12.5427



42.7769, 30.1704, 3.5689



30.3358, 30.1704, 1.6498

Triad

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



42.7769, 30.1704, 3.5689



11.9810, 30.1704, 28.4031



39.1985, 30.1704, 127.1693

Complementary

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



42.7769, 30.1704, 3.5689



24.9929, 23.8591, 88.8753

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.



27.0780, 30.1704, 142.5421



42.7769, 30.1704, 3.5689



13.1903, 30.1704, 68.0136

Square

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



42.7769, 30.1704, 3.5689



14.1849, 30.1704, 8.7530



18.0743, 30.1704, 116.0122



50.6926, 30.1704, 82.0003

Rectangle

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



42.7769, 30.1704, 3.5689



23.1745, 30.1704, 1.9609



18.0743, 30.1704, 116.0122



34.9860, 30.1704, 136.8852

Sweetspot

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



42.7776, 30.1721, 3.5694



73.0389, 71.9200, 52.4155



41.9150, 21.0759, 26.0061



15.0966, 14.6771, 9.9404



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.



42.7776, 30.1721, 3.5694



47.2482, 33.2763, 3.9327



64.9780, 74.5730, 10.9696



17.1086, 17.7013, 17.3125



23.3917, 16.6690, 1.9846



2.1568, 1.6669, 0.2081

Inverse Universe

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



24.9929, 23.8591, 88.8753



27.5868, 26.2937, 98.2289



16.5185, 6.9104, 86.0505



16.3414, 17.4471, 21.0489



13.7281, 13.2499, 48.3720



1.3090, 1.3695, 4.2856

Previews

White Background



This preview shows how the XYZ color 42.7769, 30.1704, 3.5689 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 42.7769, 30.1704, 3.5689 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 42.7769, 30.1704, 3.5689

Background



This preview shows how black text looks on a background with the XYZ color 42.7769, 30.1704, 3.5689.



This preview shows how white text looks on a background with the XYZ color 42.7769, 30.1704,

3.5689.

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

42.7769, 30.1704, 3.5689

Protanopia

27.4232, 30.3096, 5.2156

Deuteranopia

30.6593, 30.1648, 4.2065



Tritanopia

45.7182, 30.1642, 17.6000

Trichromacy



Original Color

42.7769, 30.1704, 3.5689

Protanomaly

31.5151, 29.0982, 4.4074

Deuteranomaly

34.2771, 29.5206, 3.8914

Tritanomaly

44.0305, 29.9231, 9.0853

Monochromacy



Original Color

42.7769, 30.1704, 3.5689

Achromatopsia

23.7775, 25.0158, 27.2422

Achromatomaly

27.2142, 25.0970, 12.4267

CSS Examples

Text

The CSS property to change the color of the text to XYZ 42.7769, 30.1704, 3.5689 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(244, 109, 0)` looks like.

```
.text, #text, p{  
    color:rgb(244, 109, 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(244, 109, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 109, 0) }
```

Border

The CSS property to change the border of an element to XYZ 42.7769, 30.1704, 3.5689 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(244, 109, 0) }
```


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

```
.border{ border-color:rgb(244, 109, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 109, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 109, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 109, 0);  
box-shadow:4px 4px 4px 4px rgb(244, 109,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 42.7769, 30.1704, 3.5689 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 109, 0) }
```

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

```
.background{ background-color: rgb(244,  
109, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor