

Converting Colors

XYZ(46.0148, 34.9048, 4.3121)

Have a look what the booklet for
XYZ(46.0148, 34.9048, 4.3121)
contains.

XYZ(45.9471, 34.9529, 4.3249)	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(45.9471, 34.9529,
4.3249)**

Conversions

Conversions Part 1

Format	Color
Hex	F77F00
RGB	247, 127, 0
RGB Percent	97%, 50%, 0%
CMY	0.0314, 0.5019, 1.0000
CMYK	0.00, 0.49, 1.00, 0.03
HSL	31°, 100%, 48%
HSV	31°, 100%, 97%
XYZ	45.9471, 34.9529, 4.3249
YIQ	148.4020, 112.2870, -14.0570

Conversions

Conversions Part 2

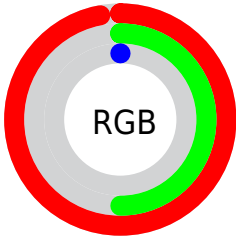
Format	Color
R _Y B	233, 247, 0
Decimal	16219904
CIE Lab	65.71, 40.21, 72.64
CIE LCh	66, 83.028, 61.037
Yxy	34.9529, 0.5391, 0.4101
Android (android.graphics.Color)	4294409984 (0xFFFF77F00)
YUV	148.4020, -73.1622, 86.4704
Hunter-Lab	59.1210, 35.2633, 37.0474

Details

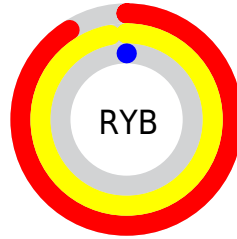
The XYZ color **45.9471, 34.9529, 4.3249** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **23.5049, 20.1484, 90.6450**, and the grayscale version is **28.5816, 30.0701, 32.7463**.

A 20% lighter version of the original color is **58.9336, 54.7756, 13.5975**, and **22.0445, 15.0994, 1.7526** is the 20% darker color. If you saturate the color by 10%, you get **45.9472, 34.9536, 4.3250**, and if you desaturate by 10%, it is **47.7635, 38.3103, 5.7806**.

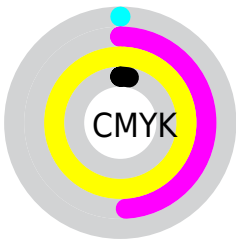
Distribution



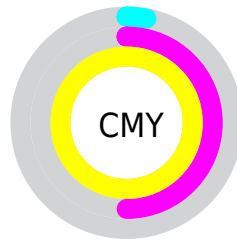
- Red (97%)
- Green (50%)
- Blue (0%)



- Red (91%)
- Yellow (97%)
- Blue (0%)



- Cyan (0%)
- Magenta (49%)
- Yellow (100%)
- Black (3%)





- Cyan (3%)
- Magenta (50%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 45.9471, 34.9529, 4.3249 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 45.9471, 34.9529, 4.3249 by changing the saturation by 10% instead.


 45.9471, 34.9529,
4.3249


 45.9471, 34.9529,
4.3249


361.3154,
324.3604, 151.7709


 32.4085, 23.6266,
1.8052


 83.3682, 67.4128,
14.7524

 21.8308, 15.0569,
0.4314


 107.9814, 89.3152,
23.4973

 13.8485, 8.8593,
0.0000


 137.0168,
115.5117, 35.1544

 8.0964, 4.6495,
0.0000

 170.8399,
146.3868, 50.1421

 4.2090, 2.0431,
0.0000

 209.8160,
182.3248, 68.8791


 1.8210, 0.6324,
0.0000

 254.3103,


 0.5303, 0.0000,


223.7101, 91.7839


0.0000


 304.6884,
270.9272, 119.2750


 0.0000, 0.0000,
0.0000


 45.9471, 34.9529,
4.3249


 45.9471, 34.9529,
4.3249


 45.9472, 34.9536,
4.3250

 47.7635, 38.3103,
5.7806

 49.9882, 42.1347,
8.4493

 52.6955, 46.4666,
12.6894

 55.9316, 51.3335,
18.7170

 59.7360, 56.7599,
26.7136

64.1439, 62.7680,
36.8383

69.1868, 69.3785,
49.2336

74.8942, 76.6108,
64.0296

81.2930, 84.4833,
81.3464

Harmonies

Analogous

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



57.6927, 34.9529, 12.8393



45.9471, 34.9529, 4.3249



32.7984, 34.9529, 2.6376

Triad

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



45.9471, 34.9529, 4.3249



14.8327, 34.9529, 39.2882



46.8671, 34.9529, 129.7252

Complementary

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



45.9471, 34.9529, 4.3249



23.5049, 20.1484, 90.6450

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.



33.6486, 34.9529, 152.7612



45.9471, 34.9529, 4.3249



16.8831, 34.9529, 84.3589

Square

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



45.9471, 34.9529, 4.3249



16.6138, 34.9529, 13.8885



23.0938, 34.9529, 132.5020



58.3090, 34.9529, 80.8248

Rectangle

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



45.9471, 34.9529, 4.3249



25.4815, 34.9529, 3.4666



23.0938, 34.9529, 132.5020



42.3892, 34.9529, 141.7386

Sweetspot

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



45.9479, 34.9548, 4.3255



74.3549, 74.5519, 52.8542



41.9643, 21.2169, 20.7883



15.4070, 15.2978, 10.0438



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.



45.9479, 34.9548, 4.3255



49.3721, 37.5242, 4.6407



71.6179, 86.2949, 12.8822



17.2038, 17.8917, 17.3443



24.4432, 18.7719, 2.3350



2.2512, 1.8557, 0.2395

Inverse Universe

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



23.5049, 20.1484, 90.6450



25.2429, 21.6058, 97.4476



16.7886, 6.7156, 88.4062



16.2457, 17.2557, 21.0170



12.5718, 10.9373, 47.9865



1.2074, 1.1662, 4.2517

Previews

White Background



This preview shows how the XYZ color 45.9471, 34.9529, 4.3249 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 45.9471, 34.9529, 4.3249 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 45.9471, 34.9529, 4.3249

Background



This preview shows how black text looks on a background with the XYZ color 45.9471, 34.9529, 4.3249.



This preview shows how white text looks on a background with the XYZ color 45.9471, 34.9529,

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

45.9471, 34.9529, 4.3249

Protanopia

31.9363, 35.3676, 5.8529

Deuteranopia

35.5854, 35.0130, 4.8826



Tritanopia

50.0280, 34.9725, 23.8523

Trichromacy



Original Color

45.9471, 34.9529, 4.3249

Protanomaly

35.9969, 34.5031, 5.1433

Deuteranomaly

38.7359, 34.5503, 4.6273

Tritanomaly

47.7097, 34.5779, 11.7490

Monochromacy



Original Color

45.9471, 34.9529, 4.3249

Achromatopsia

28.1479, 29.6138, 32.2495

Achromatomaly

31.1656, 29.7547, 14.6903

CSS Examples

Text

The CSS property to change the color of the text to XYZ 45.9471, 34.9529, 4.3249 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, 127, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 127, 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, 127, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 127, 0) }
```

Border

The CSS property to change the border of an element to XYZ 45.9471, 34.9529, 4.3249 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, 127, 0) }
```


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

```
.border{ border-color:rgb(247, 127, 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, 127, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 127, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 127, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 127,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 45.9471, 34.9529, 4.3249 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 127, 0) }
```

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

```
.background{ background-color: rgb(247,  
127, 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