

Converting Colors

$Y_{xy}(46.7320, 0.4948, 0.4453)$

Have a look what the booklet for
Yxy(46.7320, 0.4948, 0.4453)
contains.

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Color

Yxy(46.6844, 0.4945, 0.4456)

Conversions

Conversions Part 1

Format	Color
Hex	F7A500
RGB	247, 165, 0
RGB Percent	97%, 65%, 0%
CMY	0.0314, 0.3529, 1.0000
CMYK	0.00, 0.33, 1.00, 0.03
HSL	40°, 100%, 48%
HSV	40°, 100%, 97%
XYZ	51.8075, 46.6844, 6.2756
YIQ	170.7080, 101.8370, -33.9310

Conversions

Conversions Part 2

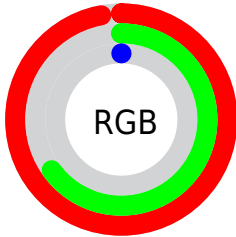
Format	Color
R _Y B	123, 247, 0
Decimal	16229632
CIE Lab	73.99, 20.56, 77.90
CIE LCh	74, 80.562, 75.217
Yxy	46.6844, 0.4945, 0.4456
Android (android.graphics.Color)	4294419712 (0xFF7A500)
YUV	170.7080, -84.1590, 66.9081
Hunter-Lab	68.3260, 15.7755, 42.3825

Details

The Yxy color **46.6844, 0.4945, 0.4456** 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 **12.7435, 0.1624, 0.1045**, and the grayscale version is **40.9645, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.0109, 0.4288, 0.4588**, and **22.0006, 0.5077, 0.4351** is the 20% darker color. If you saturate the color by 10%, you get **46.6871, 0.4945, 0.4456**, and if you desaturate by 10%, it is **49.8087, 0.4820, 0.4487**.

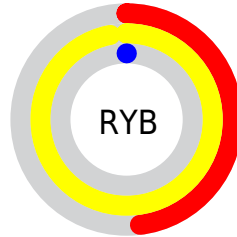
Distribution



Red (97%)

Green (65%)

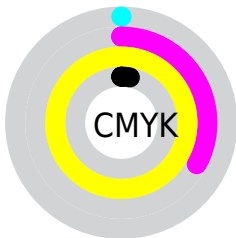
Blue (0%)



Red (48%)

Yellow (97%)

Blue (0%)

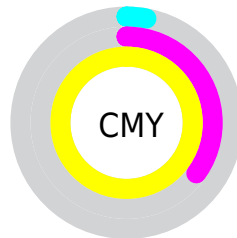


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (3%)



Cyan (3%)


Magenta (35%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.6844, 0.4945, 0.4456 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 Yxy color 46.6844, 0.4945, 0.4456 by changing the saturation by 10% instead.

 46.6844, 0.4945,
0.4456


 46.6844, 0.4945,
0.4456

373.5534, 0.4136,
0.4023

 32.7862, 0.5093,
0.4503


 85.2423, 0.4689,
0.4343


 21.9627, 0.5249,
0.4531


 110.6709, 0.4581,
0.4288

 13.8295, 0.5446,
0.4554


 140.7117, 0.4485,
0.4235

 8.0022, 0.5554,
0.4446

 175.7492, 0.4399,
0.4185

 4.0963, 0.5713,
0.4287

 216.1677, 0.4322,
0.4140

 1.7276, 0.5968,
0.4032

 262.3516, 0.4254,

 0.4414, 0.6767,

0.4098

0.3233

314.6854, 0.4192,
0.4059

■ 0.0000, 0.0000,
0.0000

■ 46.6844, 0.4945,
0.4456

■ 46.6844, 0.4945,
0.4456

■ 46.6871, 0.4945,
0.4456

■ 49.8087, 0.4820,
0.4487

■ 53.2105, 0.4665,
0.4470

■ 56.9230, 0.4480,
0.4403

■ 60.9657, 0.4277,
0.4293

■ 65.3554, 0.4065,
0.4149

■ 70.1071, 0.3853,
0.3984

■ 75.2346, 0.3650,
0.3809

■ 80.7506, 0.3460,
0.3631

■ 86.6671, 0.3285,
0.3456

Harmonies

Analogous

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



46.6844, 0.5291, 0.3696



46.6844, 0.4945, 0.4456



46.6844, 0.4144, 0.5158

Triad

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



46.6844, 0.4945, 0.4456



46.6844, 0.1576, 0.3243



46.6844, 0.2756, 0.1919

Complementary

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



46.6844, 0.4945, 0.4456



12.7435, 0.1624, 0.1045

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.



46.6844, 0.1923, 0.1725



46.6844, 0.4945, 0.4456



46.6844, 0.1349, 0.2282

Square

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



46.6844, 0.4945, 0.4456



46.6844, 0.2209, 0.4554



46.6844, 0.1468, 0.1819



46.6844, 0.3893, 0.2366

Rectangle

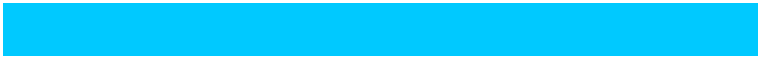
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.6844, 0.4945, 0.4456



46.6844, 0.3492, 0.5388



46.6844, 0.1468, 0.1819



46.6844, 0.2435, 0.1825

Sweetspot

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



46.6871, 0.4945, 0.4456



80.8725, 0.3651, 0.3809



20.3850, 0.5686, 0.2906



16.8011, 0.3736, 0.3884



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.6871, 0.4945, 0.4456



50.1500, 0.4946, 0.4455



79.6059, 0.3897, 0.5288



18.3327, 0.3277, 0.3448



24.9669, 0.4929, 0.4468



2.3824, 0.4813, 0.4560

Inverse Universe

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



12.7435, 0.1624, 0.1045



13.6582, 0.1623, 0.1042



7.1890, 0.1562, 0.0634



16.8251, 0.2980, 0.3127



6.9726, 0.1632, 0.1075



0.7937, 0.1701, 0.1322

Previews

White Background



This preview shows how the Yxy color 46.6844, 0.4945, 0.4456 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 Yxy color 46.6844, 0.4945, 0.4456 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](#).

Yxy 46.6844, 0.4945, 0.4456

Background



This preview shows how black text looks on a background with the Yxy color 46.6844, 0.4945, 0.4456.



This preview shows how white text looks on a background with the Yxy color 46.6844, 0.4945, 0.4456.

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

46.6844, 0.4945, 0.4456

Protanopia

47.0293, 0.4385, 0.4854

Deuteranopia

46.7101, 0.4720, 0.4634



Tritanopia

46.5699, 0.4015, 0.3166

Trichromacy



Original Color

46.6844, 0.4945, 0.4456

Protanomaly

46.4470, 0.4598, 0.4704

Deuteranomaly

46.5823, 0.4803, 0.4569

Tritanomaly

45.6431, 0.4558, 0.3825

Monochromacy



Original Color

46.6844, 0.4945, 0.4456

Achromatopsia

40.7240, 0.3127, 0.3290

Achromatomaly

41.6222, 0.3952, 0.4061

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.6844, 0.4945, 0.4456 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 Yxy 46.6844, 0.4945, 0.4456 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 Yxy 46.6844, 0.4945, 0.4456 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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