

Converting Colors

$Y_{xy}(45.3065, 0.4972, 0.4191)$

Have a look what the booklet for
Yxy(45.3065, 0.4972, 0.4191)
contains.

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Color

Yxy(45.2760, 0.4973, 0.4191)

Conversions

Conversions Part 1

Format	Color
Hex	FF9C33
RGB	255, 156, 51
RGB Percent	100%, 61%, 20%
CMY	0.0000, 0.3882, 0.8003
CMYK	0.00, 0.39, 0.80, 0.00
HSL	31°, 100%, 60%
HSV	31°, 80%, 100%
XYZ	53.7241, 45.2760, 9.0314
YIQ	173.6310, 92.7090, -11.6670

Conversions

Conversions Part 2

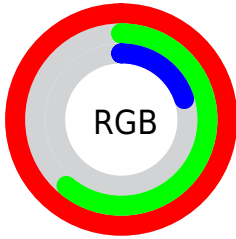
Format	Color
R_{YB}	243, 255, 51
Decimal	16751667
CIE _{Lab}	73.07, 29.47, 66.35
CIE _{LCh}	73, 72.603, 66.050
Yxy	45.2760, 0.4973, 0.4191
Android (android.graphics.Color)	4294941747 (0xFFFF9C33)
YUV	173.6310, -60.4571, 71.3606
Hunter-Lab	67.2874, 24.7661, 39.1432

Details

The Yxy color **45.2760, 0.4973, 0.4191** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **29.7087, 0.1909, 0.1871**, and the grayscale version is **42.4068, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.8891, 0.4211, 0.4321**, and **21.1071, 0.5289, 0.4183** is the 20% darker color. If you saturate the color by 10%, you get **41.1696, 0.5202, 0.4171**, and if you desaturate by 10%, it is **49.9330, 0.4714, 0.4156**.

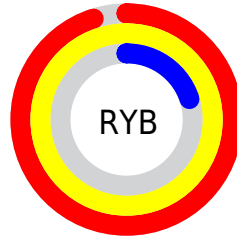
Distribution



Red (100%)

Green (61%)

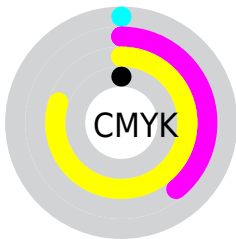
Blue (20%)



Red (95%)

Yellow (100%)

Blue (20%)

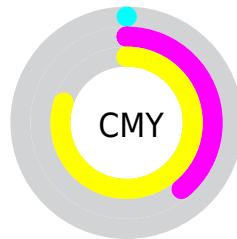


Cyan (0%)

Magenta (39%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (39%)

Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2760, 0.4973, 0.4191 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 45.2760, 0.4973, 0.4191 by changing the saturation by 10% instead.


 45.2760, 0.4973,
0.4191


 45.2760, 0.4973,
0.4191


367.8902, 0.4106,
0.3860

 31.6749, 0.5152,
0.4226


 83.1344, 0.4683,
0.4105

 21.1133, 0.5354,
0.4244


 108.1605, 0.4566,
0.4063

 13.2068, 0.5589,
0.4234


 137.7637, 0.4463,
0.4022

 7.5711, 0.5843,
0.4157

 172.3284, 0.4374,
0.3985

 3.8218, 0.6066,
0.3934

 212.2390, 0.4295,
0.3950

 1.5744, 0.6417,
0.3583

 257.8799, 0.4224,

 0.3402, 0.7569,

0.3917

0.2431

309.6355, 0.4162,
0.3888

■ 0.0000, 0.0000,
0.0000

■ 45.2760, 0.4973,
0.4191

■ 45.2760, 0.4973,
0.4191

■ 41.1696, 0.5202,
0.4171

■ 49.9330, 0.4714,
0.4156


■ 37.5738, 0.5391,
0.4101

■ 55.1632, 0.4442,
0.4077

■ 60.9953, 0.4174,
0.3966

■ 67.4534, 0.3919,
0.3835

■ 74.5597, 0.3686,
0.3696

 82.3352, 0.3476,
0.3556

 90.7998, 0.3290,
0.3419

99.9722, 0.3128,
0.3290

99.9993, 0.3127,
0.3290

Harmonies

Analogous

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



45.2760, 0.5082, 0.3489



45.2760, 0.4973, 0.4191



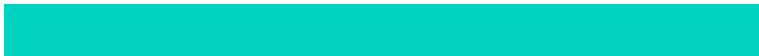
45.2760, 0.4350, 0.4862

Triad

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



45.2760, 0.4973, 0.4191



45.2760, 0.1838, 0.3612



45.2760, 0.2518, 0.1931

Complementary

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



45.2760, 0.4973, 0.4191



29.7087, 0.1909, 0.1871

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.



45.2760, 0.1844, 0.1829



45.2760, 0.4973, 0.4191



45.2760, 0.1500, 0.2596

Square

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



45.2760, 0.4973, 0.4191



45.2760, 0.2546, 0.4734



45.2760, 0.1512, 0.2022



45.2760, 0.3503, 0.2285

Rectangle

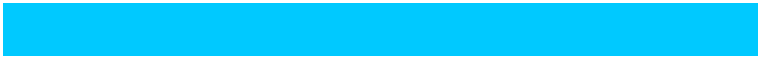
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.2760, 0.4973, 0.4191



45.2760, 0.3777, 0.5154



45.2760, 0.1512, 0.2022



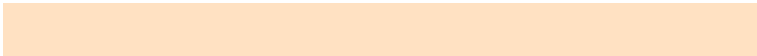
45.2760, 0.2254, 0.1867

Sweetspot

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



45.2784, 0.4973, 0.4191



79.1662, 0.3556, 0.3611



25.9199, 0.4515, 0.2430



16.3558, 0.3632, 0.3661



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.



45.2784, 0.4973, 0.4191



38.9623, 0.5318, 0.4133



93.0155, 0.4136, 0.4958



19.5341, 0.3281, 0.3413



19.9342, 0.5367, 0.4121



2.1597, 0.5197, 0.4256

Inverse Universe

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



29.7087, 0.1909, 0.1871



22.9721, 0.1774, 0.1566



10.2837, 0.1629, 0.0814



18.8322, 0.2979, 0.3164



11.5610, 0.1757, 0.1524



1.3433, 0.1815, 0.1734

Previews

White Background



This preview shows how the Yxy color 45.2760, 0.4973, 0.4191 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 45.2760, 0.4973, 0.4191 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 45.2760, 0.4973, 0.4191

Background



This preview shows how black text looks on a background with the Yxy color 45.2760, 0.4973, 0.4191.



This preview shows how white text looks on a background with the Yxy color 45.2760, 0.4973, 0.4191.

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

45.2760, 0.4973, 0.4191

Protanopia

45.3554, 0.4244, 0.4678

Deuteranopia

45.4840, 0.4608, 0.4517



Tritanopia

45.2581, 0.4103, 0.3188

Trichromacy



Original Color

45.2760, 0.4973, 0.4191

Protanomaly

44.7738, 0.4520, 0.4490

Deuteranomaly

45.4822, 0.4744, 0.4397

Tritanomaly

45.0725, 0.4488, 0.3622

Monochromacy



Original Color

45.2760, 0.4973, 0.4191

Achromatopsia

42.3268, 0.3127, 0.3290

Achromatomaly

41.9189, 0.3822, 0.3778

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.2760, 0.4973, 0.4191 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, 156, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 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, 156, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 51) }
```

Border

The CSS property to change the border of an element to Yxy 45.2760, 0.4973, 0.4191 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, 156, 51) }
```

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

```
.border{ border-color:rgb(255, 156, 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, 156, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 45.2760, 0.4973, 0.4191 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 51) }
```

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

```
.background{ background-color: rgb(255,  
156, 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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