

Converting Colors

$Y_{xy}(45.7221, 0.4959, 0.4203)$

Have a look what the booklet for
Yxy(45.7221, 0.4959, 0.4203)
contains.

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Color

Yxy(45.6130, 0.4963, 0.4200)

Conversions

Conversions Part 1

Format	Color
Hex	FF9D33
RGB	255, 157, 51
RGB Percent	100%, 62%, 20%
CMY	0.0000, 0.3843, 0.8002
CMYK	0.00, 0.38, 0.80, 0.00
HSL	31°, 100%, 60%
HSV	31°, 80%, 100%
XYZ	53.8994, 45.6130, 9.0900
YIQ	174.2180, 92.4340, -12.1900

Conversions

Conversions Part 2

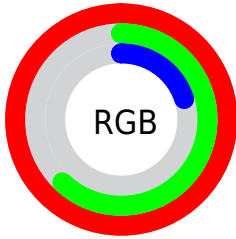
Format	Color
R _Y B	240, 255, 51
Decimal	16751923
CIE Lab	73.29, 28.97, 66.54
CIE LCh	73, 72.577, 66.473
Yxy	45.6130, 0.4963, 0.4200
Android (android.graphics.Color)	4294942003 (0xFFFF9D33)
YUV	174.2180, -60.7465, 70.8458
Hunter-Lab	67.5374, 24.2645, 39.2962

Details

The Yxy color **45.6130, 0.4963, 0.4200** 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 **29.4051, 0.1905, 0.1858**, and the grayscale version is **42.7242, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.3876, 0.4205, 0.4330**, and **21.3096, 0.5274, 0.4195** is the 20% darker color. If you saturate the color by 10%, you get **41.5065, 0.5189, 0.4182**, and if you desaturate by 10%, it is **50.2554, 0.4706, 0.4164**.

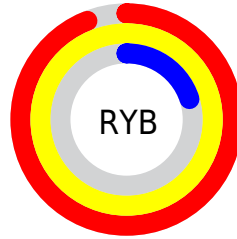
Distribution



Red (100%)

Green (62%)

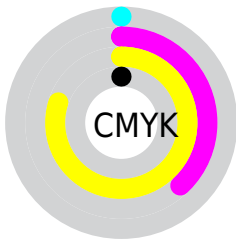
Blue (20%)



Red (94%)

Yellow (100%)

Blue (20%)

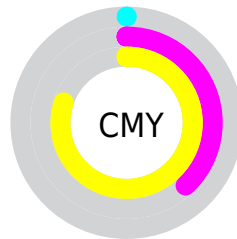


Cyan (0%)

Magenta (38%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (38%)


Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.6130, 0.4963, 0.4200 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 45.6130, 0.4963, 0.4200 by changing the saturation by 10% instead.


 45.6130, 0.4963,
0.4200

 45.6130, 0.4963,
0.4200


369.2506, 0.4102,
0.3865


 31.9405, 0.5140,
0.4236


 83.6395, 0.4675,
0.4113

 21.3161, 0.5341,
0.4256


 108.7624, 0.4559,
0.4069


 13.3552, 0.5572,
0.4248


 138.4708, 0.4458,
0.4028

 7.6736, 0.5824,
0.4176

 173.1492, 0.4368,
0.3990

 3.8868, 0.6042,
0.3958

 213.1820, 0.4290,
0.3955

 1.6105, 0.6385,
0.3615

 258.9536, 0.4220,

 0.3646, 0.7462,

0.3922

0.2538

310.8483, 0.4158,
0.3892

■ 0.0000, 1.0000,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 45.6130, 0.4963,
0.4200

■ 45.6130, 0.4963,
0.4200

■ 41.5065, 0.5189,
0.4182

■ 50.2554, 0.4706,
0.4164

■ 37.9044, 0.5377,
0.4112

■ 55.4670, 0.4437,
0.4084

■ 61.2725, 0.4170,
0.3972

■ 67.6955, 0.3917,
0.3840

74.7582, 0.3684,
0.3699

82.4810, 0.3475,
0.3558

90.8835, 0.3290,
0.3421

99.9843, 0.3127,
0.3290

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



45.6130, 0.5080, 0.3499



45.6130, 0.4963, 0.4200



45.6130, 0.4337, 0.4867

Triad

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



45.6130, 0.4963, 0.4200



45.6130, 0.1834, 0.3595



45.6130, 0.2532, 0.1937

Complementary

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



45.6130, 0.4963, 0.4200



29.4051, 0.1905, 0.1858

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.



45.6130, 0.1854, 0.1832



45.6130, 0.4963, 0.4200



45.6130, 0.1502, 0.2587

Square

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



45.6130, 0.4963, 0.4200



45.6130, 0.2536, 0.4716



45.6130, 0.1518, 0.2020



45.6130, 0.3517, 0.2294

Rectangle

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



45.6130, 0.4963, 0.4200



45.6130, 0.3764, 0.5153



45.6130, 0.1518, 0.2020



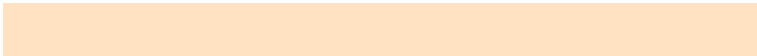
45.6130, 0.2267, 0.1872

Sweetspot

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



45.6116, 0.4963, 0.4200



79.3243, 0.3556, 0.3614



25.8124, 0.4568, 0.2462



16.3937, 0.3631, 0.3665



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.



45.6116, 0.4963, 0.4200



39.2936, 0.5305, 0.4144



92.3794, 0.4112, 0.4975



19.5489, 0.3281, 0.3414



20.1068, 0.5353, 0.4132



2.1766, 0.5185, 0.4265

Inverse Universe

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



29.4051, 0.1905, 0.1858



22.6666, 0.1770, 0.1551



10.3782, 0.1640, 0.0819



18.8174, 0.2979, 0.3163



11.4024, 0.1752, 0.1509



1.3275, 0.1811, 0.1719

Previews

White Background



This preview shows how the Yxy color 45.6130, 0.4963, 0.4200 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 45.6130, 0.4963, 0.4200 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 45.6130, 0.4963, 0.4200

Background



This preview shows how black text looks on a background with the Yxy color 45.6130, 0.4963, 0.4200.



This preview shows how white text looks on a background with the Yxy color 45.6130, 0.4963, 0.4200.

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

45.6130, 0.4963, 0.4200

Protanopia

45.8997, 0.4244, 0.4681

Deuteranopia

45.6462, 0.4616, 0.4511



Tritanopia

45.6108, 0.4088, 0.3188

Trichromacy



Original Color

45.6130, 0.4963, 0.4200

Protanomaly

45.1530, 0.4510, 0.4499

Deuteranomaly

45.4822, 0.4744, 0.4397

Tritanomaly

45.3985, 0.4482, 0.3632

Monochromacy



Original Color

45.6130, 0.4963, 0.4200

Achromatopsia

42.3268, 0.3127, 0.3290

Achromatomaly

42.2868, 0.3818, 0.3790

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.6130, 0.4963, 0.4200 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, 157, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 157, 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, 157, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 157, 51) }
```

Border

The CSS property to change the border of an element to Yxy 45.6130, 0.4963, 0.4200 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, 157, 51) }
```

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

```
.border{ border-color:rgb(255, 157, 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, 157, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 157, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 157, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 157,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 45.6130, 0.4963, 0.4200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 157, 51) }
```

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

```
.background{ background-color: rgb(255,  
157, 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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