

Converting Colors

$Y_{xy}(46.2107, 0.4944, 0.4215)$

Have a look what the booklet for
Yxy(46.2107, 0.4944, 0.4215)
contains.

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Color

Yxy(46.2953, 0.4942, 0.4219)

Conversions

Conversions Part 1

Format	Color
Hex	FF9F33
RGB	255, 159, 51
RGB Percent	100%, 62%, 20%
CMY	0.0001, 0.3764, 0.8001
CMYK	0.00, 0.38, 0.80, 0.00
HSL	32°, 100%, 60%
HSV	32°, 80%, 100%
XYZ	54.2288, 46.2953, 9.2064
YIQ	175.3920, 91.8840, -13.2360

Conversions

Conversions Part 2

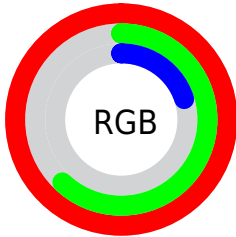
Format	Color
R _Y B	232, 255, 51
Decimal	16752435
CIE Lab	73.74, 27.90, 66.94
CIE LCh	74, 72.520, 67.370
Yxy	46.2953, 0.4942, 0.4219
Android (android.graphics.Color)	4294942515 (0xFFFF9F33)
YUV	175.3920, -61.3253, 69.8162
Hunter-Lab	68.0406, 23.1945, 39.6061

Details

The Yxy color **46.2953, 0.4942, 0.4219** 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 **28.7673, 0.1898, 0.1830**, and the grayscale version is **43.3728, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.3937, 0.4193, 0.4347**, and **21.7219, 0.5243, 0.4219** is the 20% darker color. If you saturate the color by 10%, you get **42.2038, 0.5164, 0.4203**, and if you desaturate by 10%, it is **50.9150, 0.4690, 0.4181**.

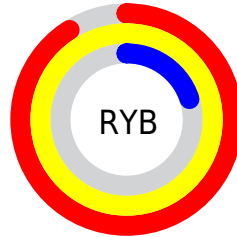
Distribution



Red (100%)

Green (62%)

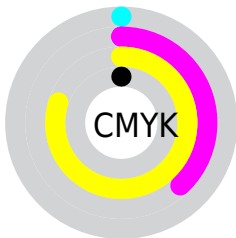
Blue (20%)



Red (91%)

Yellow (100%)

Blue (20%)

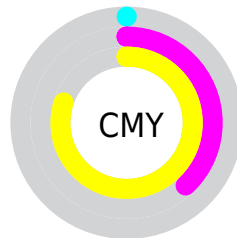


Cyan (0%)

Magenta (38%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (38%)

Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.2953, 0.4942, 0.4219 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 46.2953, 0.4942, 0.4219 by changing the saturation by 10% instead.

 46.2953, 0.4942,
0.4219


 46.2953, 0.4942,
0.4219


371.9946, 0.4094,
0.3874


 32.4789, 0.5115,
0.4258


 84.6608, 0.4659,
0.4128


 21.7276, 0.5312,
0.4282


 109.9786, 0.4545,
0.4083


 13.6569, 0.5536,
0.4278


 139.8991, 0.4445,
0.4041

 7.8824, 0.5784,
0.4216

 174.8066, 0.4357,
0.4002

 4.0198, 0.5992,
0.4008

 215.0855, 0.4280,
0.3966

 1.6846, 0.6318,
0.3682

 261.1202, 0.4211,

 0.4137, 0.7261,

0.3932

0.2739

313.2951, 0.4149,
0.3902

■ 0.0000, 1.0000,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 46.2953, 0.4942,
0.4219

■ 46.2953, 0.4942,
0.4219

■ 42.2038, 0.5164,
0.4203

■ 50.9150, 0.4690,
0.4181


■ 38.5956, 0.5348,
0.4136

■ 56.0841, 0.4426,
0.4098

■ 61.8304, 0.4163,
0.3984

■ 68.1768, 0.3913,
0.3850

 75.1446, 0.3682,
0.3707

 82.7539, 0.3474,
0.3563

 91.0234, 0.3290,
0.3423

99.9712, 0.3127,
0.3290

99.9954, 0.3127,
0.3290

Harmonies

Analogous

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



46.2953, 0.5076, 0.3520



46.2953, 0.4942, 0.4219



46.2953, 0.4309, 0.4877

Triad

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



46.2953, 0.4942, 0.4219



46.2953, 0.1825, 0.3559



46.2953, 0.2561, 0.1950

Complementary

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



46.2953, 0.4942, 0.4219



28.7673, 0.1898, 0.1830

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.



46.2953, 0.1875, 0.1837



46.2953, 0.4942, 0.4219



46.2953, 0.1505, 0.2568

Square

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



46.2953, 0.4942, 0.4219



46.2953, 0.2515, 0.4679



46.2953, 0.1530, 0.2016



46.2953, 0.3548, 0.2312

Rectangle

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



46.2953, 0.4942, 0.4219



46.2953, 0.3735, 0.5150



46.2953, 0.1530, 0.2016



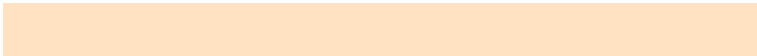
46.2953, 0.2293, 0.1883

Sweetspot

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



46.2977, 0.4942, 0.4219



79.6550, 0.3554, 0.3620



25.8093, 0.4568, 0.2462



16.4729, 0.3629, 0.3671



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.



46.2977, 0.4942, 0.4219



39.9960, 0.5277, 0.4167



92.3597, 0.4112, 0.4975



19.5799, 0.3281, 0.3416



20.4731, 0.5324, 0.4155



2.2122, 0.5159, 0.4285

Inverse Universe

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



28.7673, 0.1898, 0.1830



22.0407, 0.1761, 0.1519



10.3786, 0.1640, 0.0820



18.7867, 0.2979, 0.3161



11.0778, 0.1743, 0.1476



1.2952, 0.1803, 0.1689

Previews

White Background



This preview shows how the Yxy color 46.2953, 0.4942, 0.4219 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 46.2953, 0.4942, 0.4219 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 46.2953, 0.4942, 0.4219

Background



This preview shows how black text looks on a background with the Yxy color 46.2953, 0.4942, 0.4219.



This preview shows how white text looks on a background with the Yxy color 46.2953, 0.4942, 0.4219.

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

46.2953, 0.4942, 0.4219

Protanopia

46.4478, 0.4245, 0.4684

Deuteranopia

46.1963, 0.4611, 0.4509



Tritanopia

46.3251, 0.4059, 0.3188

Trichromacy



Original Color

46.2953, 0.4942, 0.4219

Protanomaly

46.0775, 0.4500, 0.4512

Deuteranomaly

46.0280, 0.4738, 0.4396

Tritanomaly

46.1078, 0.4450, 0.3633

Monochromacy



Original Color

46.2953, 0.4942, 0.4219

Achromatopsia

42.8690, 0.3127, 0.3290

Achromatomaly

42.8250, 0.3814, 0.3788

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.2953, 0.4942, 0.4219 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, 159, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 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, 159, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 51) }
```

Border

The CSS property to change the border of an element to Yxy 46.2953, 0.4942, 0.4219 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, 159, 51) }
```

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

```
.border{ border-color:rgb(255, 159, 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, 159, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 46.2953, 0.4942, 0.4219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 159, 51) }
```

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

```
.background{ background-color: rgb(255,  
159, 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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