

# Converting Colors

$Y_{xy}(42.1893, 0.4907, 0.4273)$

Have a look what the booklet for  
Yxy(42.1893, 0.4907, 0.4273)  
contains.

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# Color

**Yxy(42.0014, 0.4912, 0.4271)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F19A2D
RGB	241, 154, 45
RGB Percent	95%, 60%, 18%
CMY	0.0549, 0.3961, 0.8239
CMYK	0.00, 0.36, 0.81, 0.05
HSL	33°, 88%, 56%
HSV	33°, 81%, 95%
XYZ	48.3051, 42.0014, 8.0345
YIQ	167.5870, 86.8410, -15.4550

# Conversions

## Conversions Part 2

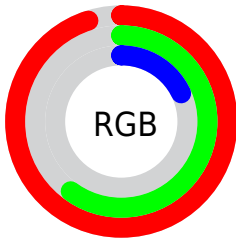
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	201, 241, 45
Decimal	15833645
CIE Lab	70.87, 24.57, 65.89
CIE LCh	71, 70.322, 69.553
Yxy	42.0014, 0.4912, 0.4271
Android (android.graphics.Color)	4294023725 (0xFFFF19A2D)
YUV	167.5870, -60.4354, 64.3832
Hunter-Lab	64.8085, 19.6302, 38.0156

# Details

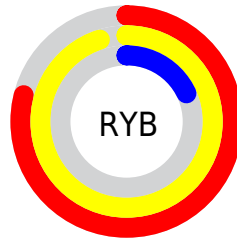
The Yxy color **42.0014, 0.4912, 0.4271** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **23.3857, 0.1866, 0.1732**, and the grayscale version is **39.2116, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.7810, 0.4259, 0.4351**, and **19.2842, 0.5185, 0.4265** is the 20% darker color. If you saturate the color by 10%, you get **38.4942, 0.5116, 0.4255**, and if you desaturate by 10%, it is **45.9331, 0.4677, 0.4233**.

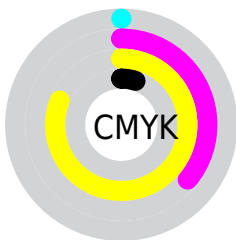
# Distribution



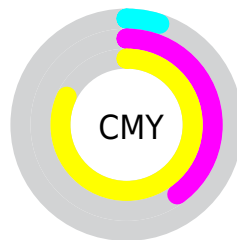
- Red (95%)
- Green (60%)
- Blue (18%)



- Red (79%)
- Yellow (95%)
- Blue (18%)



- Cyan (0%)
- Magenta (36%)
- Yellow (81%)
- Black (5%)



- Cyan (5%)
- Magenta (40%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0014, 0.4912, 0.4271 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 42.0014, 0.4912, 0.4271 by changing the saturation by 10% instead.





 42.0014, 0.4912,  
0.4271


 42.0014, 0.4912,  
0.4271

354.4887, 0.4068,  
0.3891

 29.1024, 0.5085,  
0.4317

 78.2017, 0.4629,  
0.4168


 19.1583, 0.5281,  
0.4347


 102.2719, 0.4515,  
0.4118


 11.7847, 0.5520,  
0.4361


 130.8345, 0.4415,  
0.4072

 6.5973, 0.5728,  
0.4272

 164.2740, 0.4328,  
0.4029

 3.2115, 0.5940,  
0.4060

 202.9748, 0.4251,  
0.3990

 1.2431, 0.6286,  
0.3714

 247.3212, 0.4183,

 0.0965, 0.8775,

0.3954

0.1225

297.6977, 0.4122,  
0.3921

■ 0.0000, 0.0000,  
0.0000

■ 42.0014, 0.4912,  
0.4271

■ 42.0014, 0.4912,  
0.4271

■ 38.4942, 0.5116,  
0.4255

■ 45.9331, 0.4677,  
0.4233

■ 35.7740, 0.5264,  
0.4202


■ 50.3063, 0.4426,  
0.4150


■ 55.1440, 0.4174,  
0.4032

■ 60.4650, 0.3930,  
0.3894

■ 66.2865, 0.3703,  
0.3746

 72.6247, 0.3497,  
0.3595

 79.4948, 0.3312,  
0.3448

 86.9114, 0.3148,  
0.3308

 94.4414, 0.3042,  
0.3243

# Harmonies

## Analogous

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



42.0014, 0.5091, 0.3570



42.0014, 0.4912, 0.4271



42.0014, 0.4252, 0.4919

# Triad

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



42.0014, 0.4912, 0.4271



42.0014, 0.1787, 0.3475



42.0014, 0.2623, 0.1967

# Complementary

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



42.0014, 0.4912, 0.4271



23.3857, 0.1866, 0.1732

# 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.



42.0014, 0.1912, 0.1834



42.0014, 0.4912, 0.4271



42.0014, 0.1493, 0.2512

# Square

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



42.0014, 0.4912, 0.4271



42.0014, 0.2453, 0.4613



42.0014, 0.1543, 0.1990



42.0014, 0.3626, 0.2346



# Rectangle

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



42.0014, 0.4912, 0.4271



42.0014, 0.3669, 0.5167



42.0014, 0.1543, 0.1990



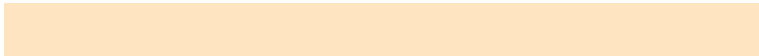
42.0014, 0.2347, 0.1893

# Sweetspot

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



42.0036, 0.4912, 0.4271



80.5491, 0.3551, 0.3636



22.2695, 0.4706, 0.2528



16.6874, 0.3624, 0.3690



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.



42.0036, 0.4912, 0.4271



41.2565, 0.5235, 0.4213



80.1250, 0.4070, 0.5021



17.2173, 0.3279, 0.3421



19.6719, 0.5242, 0.4220



1.8346, 0.5066, 0.4359



# Inverse Universe

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



23.3857, 0.1866, 0.1732



19.7372, 0.1725, 0.1398



9.0255, 0.1649, 0.0810



16.3831, 0.2980, 0.3155



9.3969, 0.1721, 0.1396



0.9771, 0.1791, 0.1649



# Previews

## White Background



This preview shows how the Yxy color 42.0014, 0.4912, 0.4271 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 42.0014, 0.4912, 0.4271 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 42.0014, 0.4912, 0.4271**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.0014, 0.4912, 0.4271.



This preview shows how white text looks on a background with the Yxy color 42.0014, 0.4912, 0.4271.

# 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

42.0014, 0.4912, 0.4271

### Protanopia

42.1045, 0.4272, 0.4707

### Deuteranopia

42.1235, 0.4627, 0.4527



## Tritanopia

42.0538, 0.4102, 0.3185

# Trichromacy



**Original Color**

42.0014, 0.4912, 0.4271

**Protanomaly**

41.8479, 0.4509, 0.4547

**Deuteranomaly**

41.9878, 0.4732, 0.4431

**Tritanomaly**

41.8072, 0.4484, 0.3655

# Monochromacy



**Original Color**

42.0014, 0.4912, 0.4271

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

39.2265, 0.3817, 0.3821

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0014, 0.4912, 0.4271 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(241, 154, 45)` looks like.

```
.text, #text, p{  
    color:rgb(241, 154, 45)  
}
```

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(241, 154, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 154, 45) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0014, 0.4912, 0.4271 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(241, 154, 45) }
```

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

```
.border{ border-color:rgb(241, 154, 45) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(241, 154, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 154, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 154, 45);  
box-shadow:4px 4px 4px 4px rgb(241, 154,  
45) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0014, 0.4912, 0.4271 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 154, 45) }
```

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

```
.background{ background-color: rgb(241,  
154, 45) }
```

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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