

# Converting Colors

$Y_{xy}(24.1699, 0.5908, 0.3691)$

Have a look what the booklet for  
Yxy(24.1699, 0.5908, 0.3691)  
contains.

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**Color**

**Yxy(24.2626, 0.5906, 0.3693)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F05000
RGB	240, 80, 0
RGB Percent	94%, 31%, 0%
CMY	0.0589, 0.6862, 1.0000
CMYK	0.00, 0.67, 1.00, 0.06
HSL	20°, 100%, 47%
HSV	20°, 100%, 94%
XYZ	38.8018, 24.2626, 2.6345
YIQ	118.7200, 121.0400, 9.0400

# Conversions

## Conversions Part 2

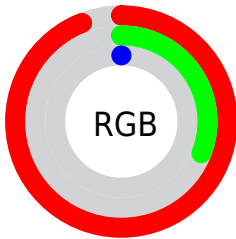
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	240, 120, 0
Decimal	15749120
CIE Lab	56.35, 59.06, 66.89
CIE LCh	56, 89.237, 48.558
Yxy	24.2626, 0.5906, 0.3693
Android (android.graphics.Color)	4293939200 (0xFFFF05000)
YUV	118.7200, -58.5290, 106.3626
Hunter-Lab	49.2571, 54.4117, 31.3088

# Details

The Yxy color **24.2626, 0.5906, 0.3693** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **31.4231, 0.1928, 0.2142**, and the grayscale version is **18.5174, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.2385, 0.5100, 0.3926**, and **9.2876, 0.6365, 0.3328** is the 20% darker color. If you saturate the color by 10%, you get **24.2643, 0.5906, 0.3693**, and if you desaturate by 10%, it is **26.9589, 0.5659, 0.3787**.

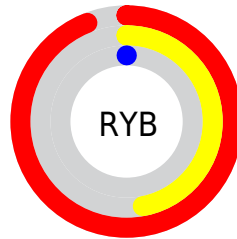
# Distribution



Red (94%)

Green (31%)

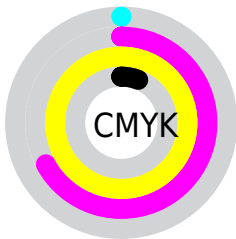
Blue (0%)



Red (94%)

Yellow (47%)

Blue (0%)

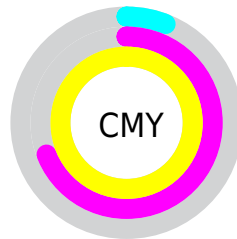


Cyan (0%)

Magenta (67%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (69%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.2626, 0.5906, 0.3693 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 24.2626, 0.5906, 0.3693 by changing the saturation by 10% instead.




 24.2626, 0.5906,  
0.3693


 24.2626, 0.5906,  
0.3693


274.1454, 0.4502,  
0.3715


 15.5285, 0.6197,  
0.3593


 50.4584, 0.5428,  
0.3771

 9.1912, 0.6563,  
0.3437


 68.6889, 0.5236,  
0.3779

 4.8661, 0.6879,  
0.3121

 90.8537, 0.5070,  
0.3777

 2.1689, 0.7328,  
0.2672

 117.3371, 0.4925,  
0.3768

 0.7030, 0.8023,  
0.1977

 148.5236, 0.4799,  
0.3757


 0.0000, 1.0000,  
0.0000

 184.7976, 0.4688,

 0.0000, 0.0000,


0.3743


0.0000


 226.5434, 0.4590,  
0.3729

 24.2626, 0.5906,  
0.3693


 24.2626, 0.5906,  
0.3693


 24.2643, 0.5906,  
0.3693

 26.9589, 0.5659,  
0.3787

 30.3290, 0.5349,  
0.3838

 34.4334, 0.4999,  
0.3840

 39.3178, 0.4641,  
0.3800

 45.0239, 0.4302,  
0.3732

■ 51.5897, 0.3994,  
0.3647

■ 59.0508, 0.3724,  
0.3556

■ 67.4405, 0.3492,  
0.3463

■ 76.7906, 0.3294,  
0.3374

# Harmonies

## Analogous

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



24.2626, 0.5653, 0.2895



24.2626, 0.5906, 0.3693



24.2626, 0.5218, 0.4652

# Triad

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



24.2626, 0.5906, 0.3693



24.2626, 0.1734, 0.4897



24.2626, 0.1673, 0.1355

# Complementary

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



24.2626, 0.5906, 0.3693



31.4231, 0.1928, 0.2142

# 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.



24.2626, 0.1114, 0.1397



24.2626, 0.5906, 0.3693



24.2626, 0.1087, 0.2956

# Square

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



24.2626, 0.5906, 0.3693



24.2626, 0.2844, 0.6174



24.2626, 0.0928, 0.1833



24.2626, 0.2752, 0.1617



# Rectangle

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



24.2626, 0.5906, 0.3693



24.2626, 0.4485, 0.5377



24.2626, 0.0928, 0.1833



24.2626, 0.1437, 0.1334

# Sweetspot

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



24.2643, 0.5906, 0.3693



67.6836, 0.3727, 0.3556



21.0619, 0.4295, 0.2140



13.6853, 0.3836, 0.3596



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.



24.2643, 0.5906, 0.3693



27.7607, 0.5911, 0.3688



59.8299, 0.4528, 0.4787



16.6199, 0.3285, 0.3369



13.5017, 0.5876, 0.3716



1.2995, 0.5622, 0.3918



# Inverse Universe

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



31.4231, 0.1928, 0.2142



35.9605, 0.1927, 0.2138



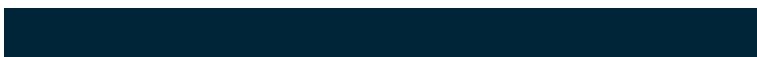
7.8084, 0.1535, 0.0727



16.9892, 0.2980, 0.3209



17.4572, 0.1934, 0.2162



1.6343, 0.1980, 0.2328



# Previews

## White Background



This preview shows how the Yxy color 24.2626, 0.5906, 0.3693 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 24.2626, 0.5906, 0.3693 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.2626, 0.5906, 0.3693**

## Background



This preview shows how black text looks on a background with the Yxy color 24.2626, 0.5906, 0.3693.



This preview shows how white text looks on a background with the Yxy color 24.2626, 0.5906, 0.3693.

# 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

24.2626, 0.5906, 0.3693

### Protanopia

24.4508, 0.4333, 0.4790

### Deuteranopia

24.3584, 0.4703, 0.4648



## Tritanopia

24.2830, 0.5411, 0.3271

# Trichromacy



## Original Color

24.2626, 0.5906, 0.3693

## Protanomaly

22.8425, 0.4999, 0.4334

## Deuteranomaly

23.1046, 0.5219, 0.4238

## Tritanomaly

24.2388, 0.5696, 0.3495

# Monochromacy



## Original Color

24.2626, 0.5906, 0.3693

## Achromatopsia

18.4475, 0.3127, 0.3290

## Achromatomaly

18.4115, 0.4368, 0.3747

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.2626, 0.5906, 0.3693 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(240, 80, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 80, 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(240, 80, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 80, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 24.2626, 0.5906, 0.3693 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(240, 80, 0) }
```

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

```
.border{ border-color:rgb(240, 80, 0) }
```

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

Here you see how a box with a 4 pixel rgb(240, 80, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 80, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 80, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 80, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 24.2626, 0.5906, 0.3693 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 80, 0) }
```

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

```
.background{ background-color: rgb(240, 80,  
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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