

# Converting Colors

$Y_{xy}(25.1724, 0.6088, 0.3548)$

Have a look what the booklet for  
Yxy(25.1724, 0.6088, 0.3548)  
contains.

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**Color**

**Yxy(25.1564, 0.6089, 0.3547)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4200
RGB	255, 66, 0
RGB Percent	100%, 26%, 0%
CMY	0.0001, 0.7410, 0.9997
CMYK	0.00, 0.74, 1.00, 0.00
HSL	16°, 100%, 50%
HSV	16°, 100%, 100%
XYZ	43.1850, 25.1564, 2.5816
YIQ	114.9870, 133.8300, 19.5420

# Conversions

## Conversions Part 2

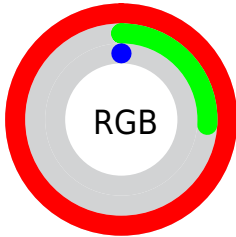
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 89, 0
Decimal	16728576
CIE Lab	57.23, 68.75, 68.80
CIE LCh	57, 97.262, 45.020
Yxy	25.1564, 0.6089, 0.3547
Android (android.graphics.Color)	4294918656 (0xFFFF4200)
YUV	114.9870, -56.6886, 122.7914
Hunter-Lab	50.1562, 65.9173, 32.0576

# Details

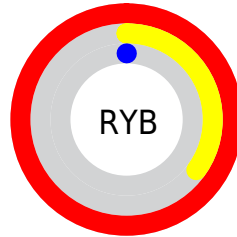
The Yxy color **25.1564, 0.6089, 0.3547** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **43.6263, 0.2003, 0.2410**, and the grayscale version is **17.2924, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.5406, 0.5205, 0.3835**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **25.1514, 0.6090, 0.3547**, and if you desaturate by 10%, it is **27.8168, 0.5842, 0.3639**.

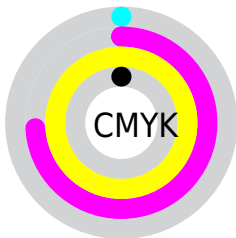
# Distribution



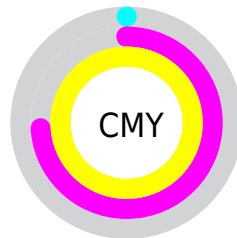
- Red (100%)
- Green (26%)
- Blue (0%)



- Red (100%)
- Yellow (35%)
- Blue (0%)



- Cyan (0%)
- Magenta (74%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (74%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 25.1564, 0.6089, 0.3547 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 25.1564, 0.6089, 0.3547 by changing the saturation by 10% instead.





 25.1564, 0.6089,  
0.3547


 25.1564, 0.6089,  
0.3547


278.6159, 0.4611,  
0.3667


 16.1936, 0.6390,  
0.3423


 51.9108, 0.5591,  
0.3663


 9.6613, 0.6760,  
0.3240


 70.4713, 0.5389,  
0.3685


 5.1749, 0.7092,  
0.2908

 92.9997, 0.5214,  
0.3694

 2.3503, 0.7550,  
0.2450

 119.8806, 0.5061,  
0.3695

 0.8001, 0.8207,  
0.1793

 151.4982, 0.4926,  
0.3692


 0.0000, 1.0000,  
0.0000

 188.2371, 0.4808,

 0.0000, 0.0000,


0.3685

0.0000

 230.4815, 0.4704,  
0.3677

 25.1564, 0.6089,  
0.3547

 25.1564, 0.6089,  
0.3547


 25.1514, 0.6090,  
0.3547

 27.8168, 0.5842,  
0.3639

 31.3645, 0.5511,  
0.3696

 35.8877, 0.5128,  
0.3709

 41.4562, 0.4734,  
0.3685

 48.1329, 0.4362,  
0.3635

■ 55.9757, 0.4030,  
0.3570

■ 65.0378, 0.3743,  
0.3498

■ 75.3695, 0.3500,  
0.3425

■ 87.0179, 0.3297,  
0.3355

# Harmonies

## Analogous

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



25.1564, 0.5713, 0.2751



25.1564, 0.6089, 0.3547



25.1564, 0.5414, 0.4526

# Triad

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



25.1564, 0.6089, 0.3547



25.1564, 0.1744, 0.5295



25.1564, 0.1501, 0.1254

# Complementary

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



25.1564, 0.6089, 0.3547



43.6263, 0.2003, 0.2410

# 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.



25.1564, 0.0986, 0.1330



25.1564, 0.6089, 0.3547



25.1564, 0.1026, 0.3116

# Square

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



25.1564, 0.6089, 0.3547



25.1564, 0.2919, 0.6421



25.1564, 0.0832, 0.1828



25.1564, 0.2552, 0.1486



# Rectangle

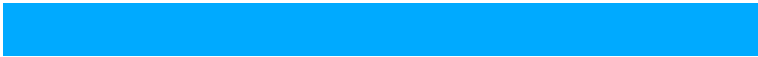
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



25.1564, 0.6089, 0.3547



25.1564, 0.4656, 0.5317



25.1564, 0.0832, 0.1828



25.1564, 0.1280, 0.1244

# Sweetspot

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



25.1579, 0.6089, 0.3547



65.0175, 0.3744, 0.3498



25.0320, 0.3980, 0.1966



13.0663, 0.3859, 0.3529



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.



25.1579, 0.6089, 0.3547



25.1544, 0.6090, 0.3547



58.6319, 0.4729, 0.4627



18.7510, 0.3288, 0.3352



13.3464, 0.6062, 0.3569



1.4671, 0.5843, 0.3742

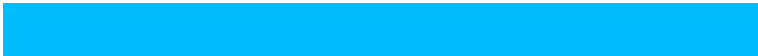


# Inverse Universe

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



43.6263, 0.2003, 0.2410



43.6228, 0.2003, 0.2410



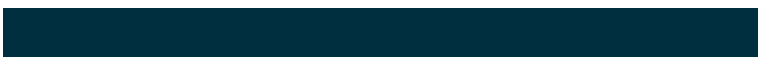
10.8641, 0.1572, 0.0860



19.6390, 0.2980, 0.3227



23.0482, 0.2007, 0.2426



2.4208, 0.2038, 0.2536



# Previews

## White Background



This preview shows how the Yxy color 25.1564, 0.6089, 0.3547 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

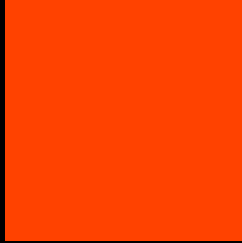
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 25.1564, 0.6089, 0.3547 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 25.1564, 0.6089, 0.3547**

## Background



This preview shows how black text looks on a background with the Yxy color 25.1564, 0.6089, 0.3547.



This preview shows how white text looks on a background with the Yxy color 25.1564, 0.6089, 0.3547.

# 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

25.1564, 0.6089, 0.3547

### Protanopia

25.2342, 0.4316, 0.4771

### Deuteranopia

25.2313, 0.4707, 0.4644



## Tritanopia

25.1967, 0.5732, 0.3284

# Trichromacy



## Original Color

25.1564, 0.6089, 0.3547

## Protanomaly

22.7084, 0.5109, 0.4236

## Deuteranomaly

23.2119, 0.5337, 0.4145

## Tritanomaly

25.0869, 0.5938, 0.3427

# Monochromacy



## Original Color

25.1564, 0.6089, 0.3547

## Achromatopsia

17.1441, 0.3127, 0.3290

## Achromatomaly

17.1374, 0.4527, 0.3659

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 25.1564, 0.6089, 0.3547 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, 66, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 66, 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(255, 66, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 66, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 25.1564, 0.6089, 0.3547 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, 66, 0) }
```

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

```
.border{ border-color:rgb(255, 66, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 66, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 66, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 66, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 66, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 25.1564, 0.6089, 0.3547 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 66, 0) }
```

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

```
.background{ background-color: rgb(255, 66,  
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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