

# Converting Colors

$Y_{xy}(23.2120, 0.6024, 0.3599)$

Have a look what the booklet for  
Yxy(23.2120, 0.6024, 0.3599)  
contains.

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# Color

**$\text{Yxy}(23.1335, 0.6026, 0.3598)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F24500
RGB	242, 69, 0
RGB Percent	95%, 27%, 0%
CMY	0.0510, 0.7293, 1.0000
CMYK	0.00, 0.71, 1.00, 0.05
HSL	17°, 100%, 47%
HSV	17°, 100%, 95%
XYZ	38.7444, 23.1335, 2.4175
YIQ	112.8610, 125.2570, 15.2170

# Conversions

## Conversions Part 2

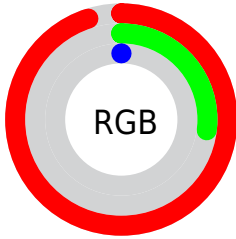
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 97, 0
Decimal	15877376
CIE <sub>Lab</sub>	55.21, 63.79, 66.56
CIE <sub>LCh</sub>	55, 92.197, 46.217
Yxy	23.1335, 0.6026, 0.3598
Android (android.graphics.Color)	4294067456 (0xFFFF24500)
YUV	112.8610, -55.6405, 113.2549
Hunter-Lab	48.0973, 59.6191, 30.6880

# Details

The Yxy color **23.1335, 0.6026, 0.3598** 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 **36.2883, 0.1977, 0.2317**, and the grayscale version is **16.6135, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.7865, 0.5203, 0.3851**, and **9.2301, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **23.1353, 0.6025, 0.3598**, and if you desaturate by 10%, it is **25.6498, 0.5775, 0.3691**.

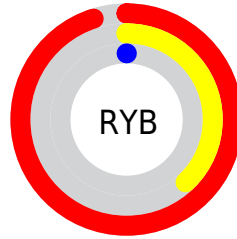
# Distribution



Red (95%)

Green (27%)

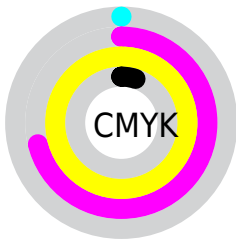
Blue (0%)



Red (95%)

Yellow (38%)

Blue (0%)

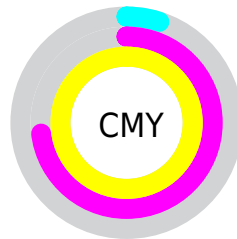


Cyan (0%)

Magenta (71%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (73%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.1335, 0.6026, 0.3598 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 23.1335, 0.6026, 0.3598 by changing the saturation by 10% instead.





 23.1335, 0.6026,  
0.3598


 23.1335, 0.6026,  
0.3598


268.4099, 0.4555,  
0.3682


 14.6921, 0.6332,  
0.3479


 48.6124, 0.5525,  
0.3702


 8.6036, 0.6706,  
0.3294


 66.4188, 0.5323,  
0.3719


 4.4835, 0.7047,  
0.2953

 88.1156, 0.5148,  
0.3723

 1.9476, 0.7528,  
0.2472

 114.0872, 0.4997,  
0.3721

 0.5767, 0.8314,  
0.1686

 144.7180, 0.4864,  
0.3714

 0.0000, 1.0000,  
0.0000


 180.3925, 0.4748,


 0.0000, 0.0000,


0.3704


0.0000


 221.4950, 0.4646,  
0.3694


 23.1335, 0.6026,  
0.3598

 23.1335, 0.6026,  
0.3598


 23.1353, 0.6025,  
0.3598

 25.6498, 0.5775,  
0.3691

 28.9167, 0.5450,  
0.3746

 33.0059, 0.5078,  
0.3755

 37.9734, 0.4698,  
0.3726

 43.8692, 0.4339,  
0.3669

■ 50.7397, 0.4016,  
0.3597

■ 58.6278, 0.3736,  
0.3518

■ 67.5737, 0.3497,  
0.3439

■ 77.6154, 0.3296,  
0.3362

# Harmonies

## Analogous

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



23.1335, 0.5694, 0.2801



23.1335, 0.6026, 0.3598



23.1335, 0.5349, 0.4573

# Triad

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



23.1335, 0.6026, 0.3598



23.1335, 0.1740, 0.5153



23.1335, 0.1559, 0.1288

# Complementary

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



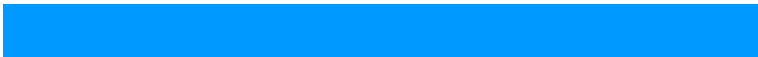
23.1335, 0.6026, 0.3598



36.2883, 0.1977, 0.2317

# 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.



23.1335, 0.1029, 0.1353



23.1335, 0.6026, 0.3598



23.1335, 0.1047, 0.3058

# Square

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



23.1335, 0.6026, 0.3598



23.1335, 0.2894, 0.6340



23.1335, 0.0864, 0.1830



23.1335, 0.2621, 0.1531



# Rectangle

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



23.1335, 0.6026, 0.3598



23.1335, 0.4599, 0.5344



23.1335, 0.0864, 0.1830



23.1335, 0.1333, 0.1274

# Sweetspot

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



23.1353, 0.6025, 0.3598



65.9509, 0.3738, 0.3519



21.9104, 0.4102, 0.2033



13.2826, 0.3851, 0.3552



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.



23.1353, 0.6025, 0.3598



25.9896, 0.6030, 0.3594



55.5147, 0.4645, 0.4694



16.4930, 0.3286, 0.3358



12.6297, 0.5996, 0.3621



1.2142, 0.5739, 0.3825

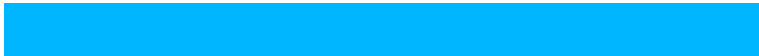


# Inverse Universe

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



36.2883, 0.1977, 0.2317



40.7868, 0.1976, 0.2314



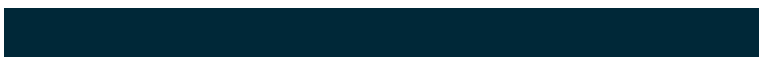
8.9053, 0.1556, 0.0802



17.1227, 0.2981, 0.3221



19.7397, 0.1982, 0.2335



1.8108, 0.2021, 0.2475



# Previews

## White Background



This preview shows how the Yxy color 23.1335, 0.6026, 0.3598 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 23.1335, 0.6026, 0.3598 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 23.1335, 0.6026, 0.3598**

## Background



This preview shows how black text looks on a background with the Yxy color 23.1335, 0.6026, 0.3598.



This preview shows how white text looks on a background with the Yxy color 23.1335, 0.6026, 0.3598.

# 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

23.1335, 0.6026, 0.3598

### Protanopia

23.2438, 0.4313, 0.4779

### Deuteranopia

23.1372, 0.4701, 0.4649



## Tritanopia

23.1267, 0.5638, 0.3275

# Trichromacy



## Original Color

23.1335, 0.6026, 0.3598

## Protanomaly

21.2596, 0.5064, 0.4272

## Deuteranomaly

21.5725, 0.5291, 0.4181

## Tritanomaly

23.1255, 0.5860, 0.3444

# Monochromacy



## Original Color

23.1335, 0.6026, 0.3598

## Achromatopsia

16.5132, 0.3127, 0.3290

## Achromatomaly

16.4909, 0.4462, 0.3690

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.1335, 0.6026, 0.3598 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(242, 69, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 69, 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(242, 69, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 69, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 23.1335, 0.6026, 0.3598 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(242, 69, 0) }
```

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

```
.border{ border-color:rgb(242, 69, 0) }
```

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

Here you see how a box with a 4 pixel rgb(242, 69, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 69, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 69, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 69, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 23.1335, 0.6026, 0.3598 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 69, 0) }
```

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

```
.background{ background-color: rgb(242, 69,  
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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