

# Converting Colors

$Y_{xy}(21.2016, 0.6185, 0.3471)$

Have a look what the booklet for  
Yxy(21.2016, 0.6185, 0.3471)  
contains.

<b>Yxy(21.2449, 0.6181, 0.3474)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(21.2449, 0.6181, 0.3474)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F23300
RGB	242, 51, 0
RGB Percent	95%, 20%, 0%
CMY	0.0510, 0.7999, 0.9998
CMYK	0.00, 0.79, 1.00, 0.05
HSL	13°, 100%, 47%
HSV	13°, 100%, 95%
XYZ	37.7993, 21.2449, 2.1098
YIQ	102.2950, 130.2070, 24.6310

# Conversions

## Conversions Part 2

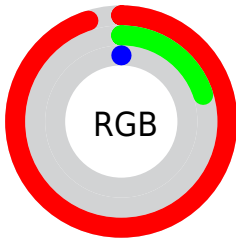
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 65, 0
Decimal	15872768
CIE Lab	53.22, 69.35, 65.62
CIE LCh	53, 95.472, 43.419
Yxy	21.2449, 0.6181, 0.3474
Android (android.graphics.Color)	4294062848 (0xFFFF23300)
YUV	102.2950, -50.4314, 122.5213
Hunter-Lab	46.0922, 65.7230, 29.5506

# Details

The Yxy color **21.2449, 0.6181, 0.3474** 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 **43.6729, 0.2052, 0.2585**, and the grayscale version is **13.4839, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.6209, 0.5346, 0.3739**, and **9.2301, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.2426, 0.6181, 0.3474**, and if you desaturate by 10%, it is **23.3396, 0.5938, 0.3555**.

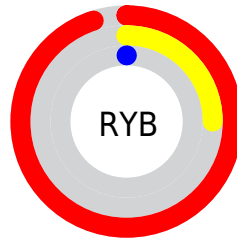
# Distribution



Red (95%)

Green (20%)

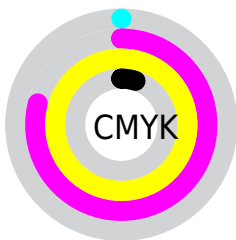
Blue (0%)



Red (95%)

Yellow (25%)

Blue (0%)

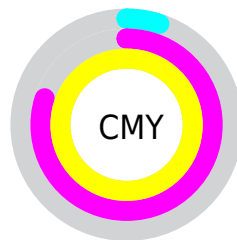


Cyan (0%)

Magenta (79%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (80%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.2449, 0.6181, 0.3474 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 21.2449, 0.6181, 0.3474 by changing the saturation by 10% instead.





 21.2449, 0.6181,  
0.3474


 21.2449, 0.6181,  
0.3474


 258.5771, 0.4616,  
0.3638


 13.3031, 0.6513,  
0.3332


 45.4948, 0.5646,  
0.3612


 7.6376, 0.6895,  
0.3105


 62.5716, 0.5431,  
0.3641

 3.8640, 0.7272,  
0.2728

 83.4624, 0.5245,  
0.3654

 1.5978, 0.7799,  
0.2201

 108.5513, 0.5084,  
0.3659

 0.3561, 0.8827,  
0.1173

 138.2228, 0.4944,  
0.3658


 0.0000, 1.0000,  
0.0000


 172.8614, 0.4821,


 0.0000, 0.0000,


0.3653

0.0000

 212.8514, 0.4712,  
0.3647


 21.2449, 0.6181,  
0.3474


 21.2449, 0.6181,  
0.3474


 21.2426, 0.6181,  
0.3474

 23.3396, 0.5938,  
0.3555

 26.2763, 0.5598,  
0.3610

 30.1474, 0.5197,  
0.3626

 35.0264, 0.4783,  
0.3610

 40.9792, 0.4394,  
0.3571

■ 48.0659, 0.4048,  
0.3518

■ 56.3419, 0.3752,  
0.3460

■ 65.8592, 0.3504,  
0.3400

■ 76.6664, 0.3297,  
0.3343

# Harmonies

## Analogous

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



21.2449, 0.5744, 0.2680



21.2449, 0.6181, 0.3474



21.2449, 0.5524, 0.4472

# Triad

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



21.2449, 0.6181, 0.3474



21.2449, 0.1743, 0.5503



21.2449, 0.1420, 0.1205

# Complementary

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



21.2449, 0.6181, 0.3474



43.6729, 0.2052, 0.2585

# 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.



21.2449, 0.0924, 0.1296



21.2449, 0.6181, 0.3474



21.2449, 0.0994, 0.3200

# Square

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



21.2449, 0.6181, 0.3474



21.2449, 0.2946, 0.6531



21.2449, 0.0784, 0.1824



21.2449, 0.2455, 0.1423



# Rectangle

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



21.2449, 0.6181, 0.3474



21.2449, 0.4729, 0.5271



21.2449, 0.0784, 0.1824



21.2449, 0.1206, 0.1199

# Sweetspot

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



21.2462, 0.6181, 0.3474



63.3554, 0.3755, 0.3460



22.7534, 0.3801, 0.1868



12.6826, 0.3875, 0.3485



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.



21.2462, 0.6181, 0.3474



23.8741, 0.6185, 0.3471



47.4030, 0.4857, 0.4525



16.2986, 0.3288, 0.3340



11.5719, 0.6156, 0.3494



1.1023, 0.5910, 0.3689



# Inverse Universe

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



43.6729, 0.2052, 0.2585



49.1149, 0.2051, 0.2583



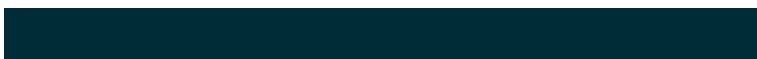
11.1273, 0.1603, 0.0970



17.3304, 0.2981, 0.3239



23.6665, 0.2055, 0.2598



2.1086, 0.2083, 0.2699



# Previews

## White Background



This preview shows how the Yxy color 21.2449, 0.6181, 0.3474 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 21.2449, 0.6181, 0.3474 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 21.2449, 0.6181, 0.3474**

## Background



This preview shows how black text looks on a background with the Yxy color 21.2449, 0.6181, 0.3474.



This preview shows how white text looks on a background with the Yxy color 21.2449, 0.6181, 0.3474.

# 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

21.2449, 0.6181, 0.3474

### Protanopia

21.4563, 0.4304, 0.4749

### Deuteranopia

21.2518, 0.4707, 0.4645



## Tritanopia

21.2046, 0.5943, 0.3298

# Trichromacy



## Original Color

21.2449, 0.6181, 0.3474

## Protanomaly

18.8613, 0.5182, 0.4161

## Deuteranomaly

19.3129, 0.5394, 0.4099

## Tritanomaly

21.1728, 0.6072, 0.3387

# Monochromacy



## Original Color

21.2449, 0.6181, 0.3474

## Achromatopsia

13.2868, 0.3127, 0.3290

## Achromatomaly

13.3405, 0.4620, 0.3587

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.2449, 0.6181, 0.3474 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, 51, 0)` looks like.

```
.text, #text, p{  
  color:rgb(242, 51, 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, 51, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 51, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.2449, 0.6181, 0.3474 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, 51, 0) }
```

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

```
.border{ border-color:rgb(242, 51, 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, 51, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 51, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 51, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 51, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.2449, 0.6181, 0.3474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 51, 0) }
```

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

```
.background{ background-color: rgb(242, 51,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor