

# Converting Colors

$Y_{xy}(19.4688, 0.6312, 0.3251)$

Have a look what the booklet for  
Yxy(19.4688, 0.6312, 0.3251)  
contains.

<b>Yxy(19.4784, 0.6311, 0.3250)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(19.4784, 0.6311, 0.3250)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F50018
RGB	245, 0, 24
RGB Percent	96%, 0%, 9%
CMY	0.0392, 1.0000, 0.9058
CMYK	0.00, 1.00, 0.90, 0.04
HSL	354°, 100%, 48%
HSV	354°, 100%, 96%
XYZ	37.8241, 19.4784, 2.6311
YIQ	75.9910, 138.3160, 59.4040

# Conversions

## Conversions Part 2

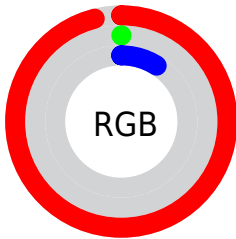
<b>Format</b>	<b>Color</b>
<b>RYB</b>	245, 0, 24
Decimal	16056344
CIELab	51.24, 77.94, 58.11
CIElCh	51, 97.217, 36.710
Yxy	19.4784, 0.6311, 0.3250
Android (android.graphics.Color)	4294246424 (0xFFFF50018)
YUV	75.9910, -25.6316, 148.2209
Hunter-Lab	44.1343, 75.7432, 27.3594

# Details

The Yxy color **19.4784, 0.6311, 0.3250** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **70.5313, 0.2334, 0.3601**, and the grayscale version is **7.2551, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.7464, 0.5414, 0.3467**, and **9.4650, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.4803, 0.6311, 0.3250**, and if you desaturate by 10%, it is **20.2866, 0.6085, 0.3207**.

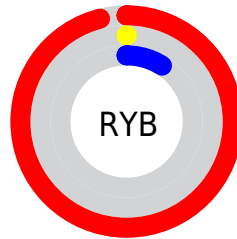
# Distribution



Red (96%)

Green (0%)

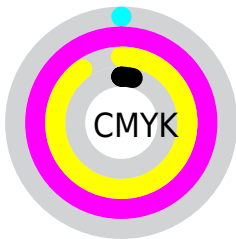
Blue (9%)



Red (96%)

Yellow (0%)

Blue (9%)

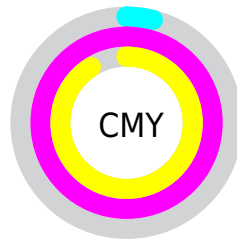


Cyan (0%)

Magenta (100%)

Yellow (90%)

Black (4%)



Cyan (4%)

Magenta (100%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.4784, 0.6311, 0.3250 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 19.4784, 0.6311, 0.3250 by changing the saturation by 10% instead.





 19.4784, 0.6311,  
0.3250


 19.4784, 0.6311,  
0.3250


249.0772, 0.4630,  
0.3514


 12.0165, 0.6681,  
0.3085


 42.5409, 0.5719,  
0.3420

 6.7549, 0.7153,  
0.2847


 58.9103, 0.5487,  
0.3461

 3.3093, 0.7570,  
0.2430

 79.0177, 0.5289,  
0.3487

 1.2953, 0.8140,  
0.1860

 103.2473, 0.5118,  
0.3502

 0.1375, 0.9513,  
0.0487

 131.9837, 0.4971,  
0.3511


 0.0000, 1.0000,  
0.0000


 165.6112, 0.4842,


 0.0000, 0.0000,


0.3515


0.0000


 204.5143, 0.4730,  
0.3515


 19.4784, 0.6311,  
0.3250


 19.4784, 0.6311,  
0.3250


 19.4803, 0.6311,  
0.3250

 20.2866, 0.6085,  
0.3207

 22.0311, 0.5728,  
0.3170

 24.9893, 0.5289,  
0.3152

 29.3295, 0.4834,  
0.3152

 35.1933, 0.4410,  
0.3166

■ 42.7048, 0.4042,  
0.3188

■ 51.9752, 0.3736,  
0.3213

■ 63.1061, 0.3487,  
0.3240

■ 76.1914, 0.3287,  
0.3266

# Harmonies

## Analogous

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



19.4784, 0.5559, 0.2469



19.4784, 0.6311, 0.3250



19.4784, 0.5800, 0.4200

# Triad

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



19.4784, 0.6311, 0.3250



19.4784, 0.1920, 0.6097



19.4784, 0.1216, 0.1140

# Complementary

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



19.4784, 0.6311, 0.3250



70.5313, 0.2334, 0.3601

# 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.



19.4784, 0.0810, 0.1305



19.4784, 0.6311, 0.3250



19.4784, 0.1035, 0.3672

# Square

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



19.4784, 0.6311, 0.3250



19.4784, 0.3189, 0.6566



19.4784, 0.0735, 0.1978



19.4784, 0.2126, 0.1293



# Rectangle

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



19.4784, 0.6311, 0.3250



19.4784, 0.5016, 0.4984



19.4784, 0.0735, 0.1978



19.4784, 0.1037, 0.1156

# Sweetspot

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



19.4803, 0.6311, 0.3250



56.8452, 0.3738, 0.3213



21.8884, 0.2954, 0.1401



11.1984, 0.3860, 0.3202



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.



19.4803, 0.6311, 0.3250



21.3302, 0.6313, 0.3252



28.1505, 0.5726, 0.3835



16.5089, 0.3278, 0.3267



10.5024, 0.6289, 0.3238



0.9317, 0.6057, 0.3110



# Inverse Universe

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



19.4803, 0.6311, 0.3250



21.3302, 0.6313, 0.3252



27.4626, 0.1861, 0.1898



16.5089, 0.3278, 0.3267



10.5024, 0.6289, 0.3238



0.9317, 0.6057, 0.3110



# Previews

## White Background



This preview shows how the Yxy color 19.4784, 0.6311, 0.3250 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



## 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 19.4784, 0.6311, 0.3250**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.4784, 0.6311, 0.3250.



This preview shows how white text looks on a background with the Yxy color 19.4784, 0.6311, 0.3250.

# 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

19.4784, 0.6311, 0.3250

### Protanopia

20.0158, 0.4162, 0.4582

### Deuteranopia

19.7905, 0.4709, 0.4643



## Tritanopia

19.6285, 0.6345, 0.3344

# Trichromacy



## Original Color

19.4784, 0.6311, 0.3250



## Protanomaly

15.0790, 0.5322, 0.3772



## Deuteranomaly

15.6086, 0.5683, 0.3817



## Tritanomaly

19.5669, 0.6343, 0.3309

# Monochromacy



## Original Color

19.4784, 0.6311, 0.3250



## Achromatopsia

7.2272, 0.3127, 0.3290



## Achromatomaly

7.7277, 0.4931, 0.3146

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.4784, 0.6311, 0.3250 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(245, 0, 24)` looks like.

```
.text, #text, p{  
    color:rgb(245, 0, 24)  
}
```

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(245, 0, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 0, 24) }
```

## Border

The CSS property to change the border of an element to Yxy 19.4784, 0.6311, 0.3250 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(245, 0, 24) }
```

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

```
.border{ border-color:rgb(245, 0, 24) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 0, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 0, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 0, 24);  
box-shadow:4px 4px 4px 4px rgb(245, 0, 24)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 19.4784, 0.6311, 0.3250 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 0, 24) }
```

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

```
.background{ background-color: rgb(245, 0,  
24) }
```

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