

# Converting Colors

$Y_{xy}(19.8660, 0.6358, 0.3334)$

Have a look what the booklet for  
Yxy(19.8660, 0.6358, 0.3334)  
contains.

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**Color**

**Yxy(19.8782, 0.6356, 0.3335)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F51300
RGB	245, 19, 0
RGB Percent	96%, 7%, 0%
CMY	0.0393, 0.9250, 0.9998
CMYK	0.00, 0.92, 1.00, 0.04
HSL	5°, 100%, 48%
HSV	5°, 100%, 96%
XYZ	37.8848, 19.8782, 1.8418
YIQ	84.4080, 140.7950, 42.0030

# Conversions

## Conversions Part 2

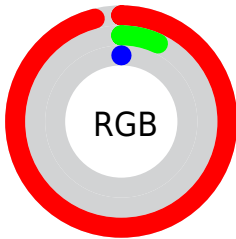
Format	Color
<a href="#">RYB</a>	<a href="#">245, 21, 0</a>
Decimal	<a href="#">16061184</a>
CIELab	<a href="#">51.70, 76.16, 65.38</a>
CIELCh	<a href="#">52, 100.378, 40.645</a>
Yxy	<a href="#">19.8782, 0.6356, 0.3335</a>
Android (android.graphics.Color)	<a href="#">4294251264 (0xFFFF51300)</a>
YUV	<a href="#">84.4080, -41.6131, 140.8392</a>
Hunter-Lab	<a href="#">44.5850, 73.6516, 28.7602</a>

# Details

The Yxy color **19.8782, 0.6356, 0.3335** 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 **60.9363, 0.2178, 0.3040**, and the grayscale version is **9.0375, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.4892, 0.5506, 0.3613**, and **9.4650, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.8775, 0.6356, 0.3335**, and if you desaturate by 10%, it is **21.1137, 0.6164, 0.3368**.

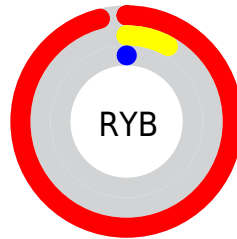
# Distribution



Red (96%)

Green (7%)

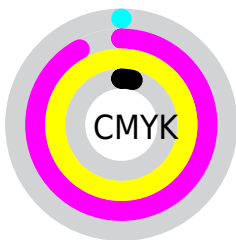
Blue (0%)



Red (96%)

Yellow (8%)

Blue (0%)

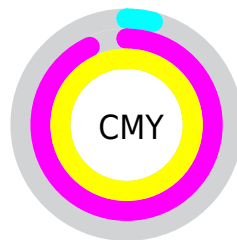


Cyan (0%)

Magenta (92%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (93%)


Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 19.8782, 0.6356, 0.3335 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 19.8782, 0.6356, 0.3335 by changing the saturation by 10% instead.





 19.8782, 0.6356,  
0.3335

 19.8782, 0.6356,  
0.3335


 251.2550, 0.4695,  
0.3592


 12.3065, 0.6714,  
0.3169


 43.2129, 0.5789,  
0.3512

 6.9528, 0.7098,  
0.2902


 59.7447, 0.5561,  
0.3553

 3.4326, 0.7507,  
0.2493

 80.0320, 0.5363,  
0.3577

 1.3615, 0.8068,  
0.1932

 104.4592, 0.5192,  
0.3591

 0.1881, 0.9347,  
0.0653

 133.4107, 0.5043,  
0.3596

 0.0000, 1.0000,  
0.0000

 167.2709, 0.4912,

 0.0000, 0.0000,

0.3598


0.0000

 206.4242, 0.4797,  
0.3596


 19.8782, 0.6356,  
0.3335

 19.8782, 0.6356,  
0.3335


 19.8775, 0.6356,  
0.3335

 21.1137, 0.6164,  
0.3368

 23.3334, 0.5831,  
0.3397

 26.6981, 0.5399,  
0.3410

 31.3347, 0.4936,  
0.3408

 37.3531, 0.4496,  
0.3396

■ 44.8516, 0.4109,  
0.3376

■ 53.9192, 0.3784,  
0.3354

■ 64.6382, 0.3517,  
0.3332

■ 77.0850, 0.3301,  
0.3310

# Harmonies

## Analogous

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



19.8782, 0.5801, 0.2548



19.8782, 0.6356, 0.3335



19.8782, 0.5679, 0.4321

# Triad

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



19.8782, 0.6356, 0.3335



19.8782, 0.1732, 0.5914



19.8782, 0.1273, 0.1113

# Complementary

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



19.8782, 0.6356, 0.3335



60.9363, 0.2178, 0.3040

# 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.



19.8782, 0.0813, 0.1230



19.8782, 0.6356, 0.3335



19.8782, 0.0928, 0.3367

# Square

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



19.8782, 0.6356, 0.3335



19.8782, 0.2981, 0.6713



19.8782, 0.0695, 0.1812



19.8782, 0.2277, 0.1306



# Rectangle

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



19.8782, 0.6356, 0.3335



19.8782, 0.4844, 0.5156



19.8782, 0.0695, 0.1812



19.8782, 0.1072, 0.1115

# Sweetspot

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



19.8795, 0.6356, 0.3335



58.9654, 0.3787, 0.3354



25.0483, 0.3387, 0.1640



11.6781, 0.3917, 0.3364



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.



19.8795, 0.6356, 0.3335



21.7552, 0.6358, 0.3334



37.8308, 0.5234, 0.4226



16.6897, 0.3292, 0.3309



10.7854, 0.6343, 0.3345



1.0183, 0.6210, 0.3451



# Inverse Universe

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



60.9363, 0.2178, 0.3040



66.7196, 0.2178, 0.3040



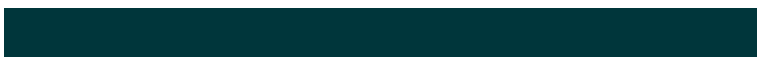
16.9396, 0.1704, 0.1333



18.5240, 0.2981, 0.3271



32.9257, 0.2179, 0.3045



2.9582, 0.2188, 0.3078



# Previews

## White Background



This preview shows how the Yxy color 19.8782, 0.6356, 0.3335 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

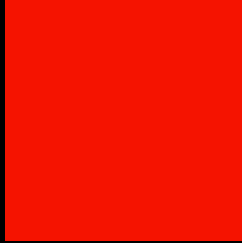
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 19.8782, 0.6356, 0.3335 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 19.8782, 0.6356, 0.3335**

## Background



This preview shows how black text looks on a background with the Yxy color 19.8782, 0.6356, 0.3335.



This preview shows how white text looks on a background with the Yxy color 19.8782, 0.6356, 0.3335.

# 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

19.8782, 0.6356, 0.3335

### Protanopia

20.3416, 0.4279, 0.4732

# Trichromacy



## Original Color

19.8782, 0.6356, 0.3335



## Protanomaly

16.3319, 0.5355, 0.3994

# Monochromacy



## Original Color

19.8782, 0.6356, 0.3335



## Achromatopsia

8.8656, 0.3127, 0.3290



## Achromatomaly

9.3284, 0.4964, 0.3409

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.8782, 0.6356, 0.3335 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, 19, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 19, 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(245, 19, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 19, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 19.8782, 0.6356, 0.3335 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, 19, 0) }
```

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

```
.border{ border-color:rgb(245, 19, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 19, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 19, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 19, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 19, 0)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 19.8782, 0.6356, 0.3335 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 19, 0) }
```

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

```
.background{ background-color: rgb(245, 19,  
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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