

# Converting Colors

$Y_{xy}(19.7858, 0.6312, 0.3370)$

Have a look what the booklet for  
Yxy(19.7858, 0.6312, 0.3370)  
contains.

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**Color**

**Yxy(19.8058, 0.6311, 0.3371)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F21E00
RGB	242, 30, 0
RGB Percent	95%, 12%, 0%
CMY	0.0510, 0.8821, 1.0000
CMYK	0.00, 0.88, 1.00, 0.05
HSL	7°, 100%, 47%
HSV	7°, 100%, 95%
XYZ	37.0793, 19.8058, 1.8684
YIQ	89.9680, 135.9820, 35.6140

# Conversions

## Conversions Part 2

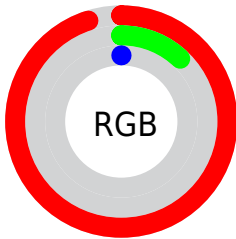
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 34, 0
Decimal	15867392
CIE <sub>Lab</sub>	51.62, 73.89, 65.00
CIE <sub>LCh</sub>	52, 98.409, 41.335
Yxy	19.8058, 0.6311, 0.3371
Android (android.graphics.Color)	4294057472 (0xFFFF21E00)
YUV	89.9680, -44.3542, 133.3321
Hunter-Lab	44.5037, 70.8400, 28.6635

# Details

The Yxy color **19.8058, 0.6311, 0.3371** 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 **53.4571, 0.2135, 0.2886**, and the grayscale version is **10.3037, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0682, 0.5477, 0.3640**, and **9.1140, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.8071, 0.6311, 0.3371**, and if you desaturate by 10%, it is **21.3323, 0.6096, 0.3424**.

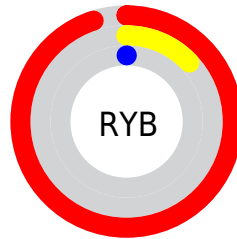
# Distribution



Red (95%)

Green (12%)

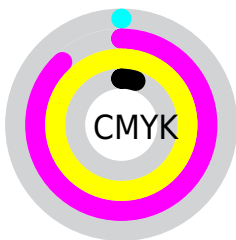
Blue (0%)



Red (95%)

Yellow (13%)

Blue (0%)

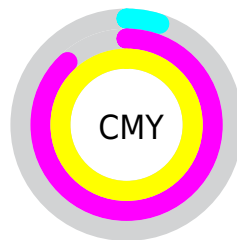


Cyan (0%)

Magenta (88%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (88%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 19.8058, 0.6311, 0.3371 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 19.8058, 0.6311, 0.3371 by changing the saturation by 10% instead.




 19.8058, 0.6311,  
0.3371


 19.8058, 0.6311,  
0.3371


 250.8619, 0.4668,  
0.3603


 12.2540, 0.6666,  
0.3210


 43.0914, 0.5749,  
0.3539


 6.9169, 0.7051,  
0.2949


 59.5939, 0.5523,  
0.3576


 3.4102, 0.7457,  
0.2543

 79.8487, 0.5328,  
0.3598

 1.3494, 0.8018,  
0.1982

 104.2403, 0.5159,  
0.3609

 0.1790, 0.9346,  
0.0654

 133.1530, 0.5011,  
0.3613

 0.0000, 1.0000,  
0.0000

 166.9712, 0.4883,

 0.0000, 0.0000,

0.3612


0.0000


 206.0794, 0.4769,  
0.3609


 19.8058, 0.6311,  
0.3371


 19.8058, 0.6311,  
0.3371

 19.8071, 0.6311,  
0.3371

 21.3323, 0.6096,  
0.3424

 23.7852, 0.5755,  
0.3465

 27.2930, 0.5331,  
0.3483

 31.9584, 0.4883,  
0.3478

 37.8716, 0.4461,  
0.3457

■ 45.1138, 0.4088,  
0.3426

■ 53.7593, 0.3773,  
0.3391

■ 63.8770, 0.3513,  
0.3356

■ 75.5312, 0.3300,  
0.3322

# Harmonies

## Analogous

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



19.8058, 0.5787, 0.2582



19.8058, 0.6311, 0.3371



19.8058, 0.5639, 0.4361

# Triad

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



19.8058, 0.6311, 0.3371



19.8058, 0.1736, 0.5806



19.8058, 0.1310, 0.1136

# Complementary

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



19.8058, 0.6311, 0.3371



53.4571, 0.2135, 0.2886

# 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.



19.8058, 0.0841, 0.1247



19.8058, 0.6311, 0.3371



19.8058, 0.0945, 0.3322

# Square

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



19.8058, 0.6311, 0.3371



19.8058, 0.2974, 0.6670



19.8058, 0.0718, 0.1815



19.8058, 0.2322, 0.1336



# Rectangle

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



19.8058, 0.6311, 0.3371



19.8058, 0.4814, 0.5186



19.8058, 0.0718, 0.1815



19.8058, 0.1106, 0.1136

# Sweetspot

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



19.8071, 0.6311, 0.3371



60.4632, 0.3776, 0.3391



23.7177, 0.3533, 0.1720



12.0192, 0.3902, 0.3406



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.



19.8071, 0.6311, 0.3371



22.2761, 0.6314, 0.3369



40.4415, 0.5088, 0.4342



16.0752, 0.3290, 0.3320



10.7464, 0.6293, 0.3386



0.9950, 0.6095, 0.3542



# Inverse Universe

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



53.4571, 0.2135, 0.2886



60.1641, 0.2135, 0.2885



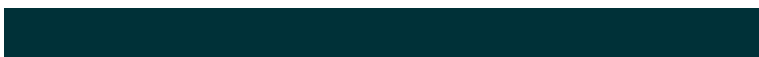
14.1971, 0.1663, 0.1185



17.5741, 0.2981, 0.3260



28.8594, 0.2137, 0.2893



2.4940, 0.2153, 0.2950



# Previews

## White Background



This preview shows how the Yxy color 19.8058, 0.6311, 0.3371 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

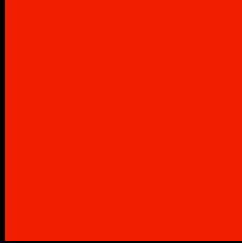
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 19.8058, 0.6311, 0.3371 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 19.8058, 0.6311, 0.3371**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.8058, 0.6311, 0.3371.



This preview shows how white text looks on a background with the Yxy color 19.8058, 0.6311, 0.3371.

# 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

19.8058, 0.6311, 0.3371

### Protanopia

19.9980, 0.4284, 0.4736

### Tritanopia

19.8178, 0.6233, 0.3319

# Trichromacy



## Original Color

19.8058, 0.6311, 0.3371

## Protanomaly

16.5895, 0.5295, 0.4052

## Tritanomaly

19.7905, 0.6269, 0.3340

# Monochromacy



## Original Color

19.8058, 0.6311, 0.3371

## Achromatopsia

10.2242, 0.3127, 0.3290

## Achromatomaly

10.4494, 0.4818, 0.3477

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.8058, 0.6311, 0.3371 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, 30, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 30, 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, 30, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 30, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 19.8058, 0.6311, 0.3371 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, 30, 0) }
```

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

```
.border{ border-color:rgb(242, 30, 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, 30, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 30, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 30, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 30, 0)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 19.8058, 0.6311, 0.3371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 30, 0) }
```

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

```
.background{ background-color: rgb(242, 30,  
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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