

# Converting Colors

$Y_{xy}(21.9024, 0.6345, 0.3344)$

Have a look what the booklet for  
Yxy(21.9024, 0.6345, 0.3344)  
contains.

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**Color**

**Yxy(21.9133, 0.6344, 0.3345)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF1800
RGB	255, 24, 0
RGB Percent	100%, 9%, 0%
CMY	0.0001, 0.9053, 1.0000
CMYK	0.00, 0.91, 1.00, 0.00
HSL	6°, 100%, 50%
HSV	6°, 100%, 100%
XYZ	41.5599, 21.9133, 2.0374
YIQ	90.3330, 145.3800, 41.5080

# Conversions

## Conversions Part 2

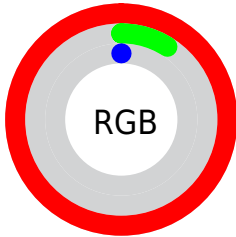
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 26, 0
Decimal	16717824
CIELab	53.93, 78.06, 67.48
CIELCh	54, 103.184, 40.843
Yxy	21.9133, 0.6344, 0.3345
Android (android.graphics.Color)	4294907904 (0xFFFF1800)
YUV	90.3330, -44.5342, 144.4130
Hunter-Lab	46.8116, 76.5540, 30.1877

# Details

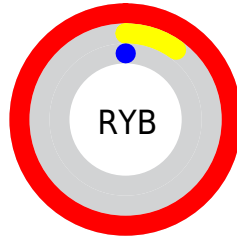
The Yxy color **21.9133, 0.6344, 0.3345** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **64.2724, 0.2162, 0.2984**, and the grayscale version is **10.3999, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0785, 0.5470, 0.3634**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.9148, 0.6344, 0.3345**, and if you desaturate by 10%, it is **23.3794, 0.6147, 0.3386**.

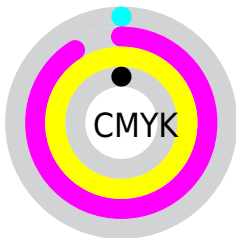
# Distribution



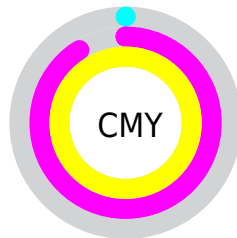
- Red (100%)
- Green (9%)
- Blue (0%)



- Red (100%)
- Yellow (10%)
- Blue (0%)



- Cyan (0%)
- Magenta (91%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (91%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 21.9133, 0.6344, 0.3345 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 21.9133, 0.6344, 0.3345 by changing the saturation by 10% instead.





 21.9133, 0.6344,  
0.3345


 21.9133, 0.6344,  
0.3345


 262.0932, 0.4716,  
0.3597


 13.7932, 0.6682,  
0.3184


 46.6027, 0.5794,  
0.3516


 7.9770, 0.7063,  
0.2937


 63.9407, 0.5571,  
0.3557


 4.0802, 0.7448,  
0.2552

 85.1202, 0.5378,  
0.3581

 1.7185, 0.7971,  
0.2029

 110.5256, 0.5209,  
0.3594

 0.4356, 0.8850,  
0.1150

 140.5411, 0.5062,  
0.3601

 0.0000, 1.0000,  
0.0000


 175.5513, 0.4932,


 0.0000, 0.0000,

0.3602

0.0000

 215.9405, 0.4818,  
0.3600


 21.9133, 0.6344,  
0.3345


 21.9133, 0.6344,  
0.3345

 21.9148, 0.6344,  
0.3345

 23.3794, 0.6147,  
0.3386

 25.9142, 0.5813,  
0.3420


 29.6828, 0.5383,  
0.3436


 34.8163, 0.4924,  
0.3433

 41.4291, 0.4489,  
0.3418

 49.6234, 0.4105,  
0.3395

 59.4924, 0.3783,  
0.3368

 71.1220, 0.3517,  
0.3341

 84.5922, 0.3302,  
0.3314

# Harmonies

## Analogous

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



21.9133, 0.5798, 0.2557



21.9133, 0.6344, 0.3345



21.9133, 0.5667, 0.4333

# Triad

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



21.9133, 0.6344, 0.3345



21.9133, 0.1733, 0.5884



21.9133, 0.1283, 0.1119

# Complementary

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



21.9133, 0.6344, 0.3345



64.2724, 0.2162, 0.2984

# 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.



21.9133, 0.0820, 0.1234



21.9133, 0.6344, 0.3345



21.9133, 0.0932, 0.3354

# Square

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



21.9133, 0.6344, 0.3345



21.9133, 0.2978, 0.6702



21.9133, 0.0701, 0.1812



21.9133, 0.2289, 0.1314



# Rectangle

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



21.9133, 0.6344, 0.3345



21.9133, 0.4835, 0.5165



21.9133, 0.0701, 0.1812



21.9133, 0.1081, 0.1121

# Sweetspot

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



21.9148, 0.6344, 0.3345



59.5053, 0.3783, 0.3368



27.1802, 0.3435, 0.1666



11.8008, 0.3911, 0.3379



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.



21.9148, 0.6344, 0.3345



21.9196, 0.6344, 0.3345



42.6667, 0.5188, 0.4262



18.2636, 0.3292, 0.3313



11.5451, 0.6329, 0.3357



1.2127, 0.6188, 0.3468



# Inverse Universe

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



64.2724, 0.2162, 0.2984



64.2864, 0.2162, 0.2984



17.5760, 0.1688, 0.1278



20.1699, 0.2980, 0.3267



33.7117, 0.2164, 0.2989

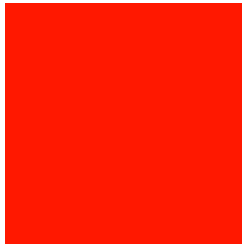


3.3645, 0.2174, 0.3027



# Previews

## White Background



This preview shows how the Yxy color 21.9133, 0.6344, 0.3345 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

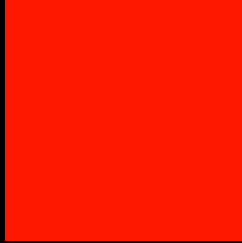
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.9133, 0.6344, 0.3345 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 21.9133, 0.6344, 0.3345**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.9133, 0.6344, 0.3345.



This preview shows how white text looks on a background with the Yxy color 21.9133, 0.6344, 0.3345.

# 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

21.9133, 0.6344, 0.3345

### Protanopia

22.1805, 0.4288, 0.4733

### Deuteranopia

21.9524, 0.4700, 0.4650



## Tritanopia

21.9352, 0.6317, 0.3329

# Trichromacy



## Original Color

21.9133, 0.6344, 0.3345

## Protanomaly

18.1439, 0.5350, 0.4011

## Deuteranomaly

18.5522, 0.5577, 0.3953

## Tritanomaly

21.9264, 0.6328, 0.3335

# Monochromacy



## Original Color

21.9133, 0.6344, 0.3345

## Achromatopsia

10.2242, 0.3127, 0.3290

## Achromatomaly

10.6759, 0.4913, 0.3436

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.9133, 0.6344, 0.3345 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(255, 24, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 24, 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(255, 24, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 24, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.9133, 0.6344, 0.3345 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(255, 24, 0) }
```

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

```
.border{ border-color:rgb(255, 24, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 24, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 24, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 24, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 24, 0)  
}
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 21.9133, 0.6344, 0.3345$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 24, 0) }
```

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

```
.background{ background-color: rgb(255, 24,  
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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