

# Converting Colors

$Y_{xy}(21.9733, 0.5721, 0.3840)$

Have a look what the booklet for  
Yxy(21.9733, 0.5721, 0.3840)  
contains.

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**Color**

**Yxy(21.8765, 0.5723, 0.3838)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DB5700
RGB	219, 87, 0
RGB Percent	86%, 34%, 0%
CMY	0.1412, 0.6588, 1.0000
CMYK	0.00, 0.60, 1.00, 0.14
HSL	24°, 100%, 43%
HSV	24°, 100%, 86%
XYZ	32.6210, 21.8765, 2.5023
YIQ	116.5500, 106.5990, 0.9270

# Conversions

## Conversions Part 2

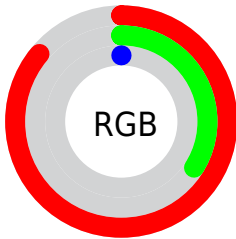
Format	Color
<a href="#">RYB</a>	219, 144, 0
Decimal	14374656
CIELab	53.90, 48.80, 63.65
CIElCh	54, 80.201, 52.524
Yxy	21.8765, 0.5723, 0.3838
Android (android.graphics.Color)	4292564736 (0xFFDB5700)
YUV	116.5500, -57.4591, 89.8487
Hunter-Lab	46.7723, 42.6417, 29.5686

# Details

The Yxy color **21.8765, 0.5723, 0.3838** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed red. A complement of this color would be **21.6129, 0.1866, 0.1917**, and the grayscale version is **17.8005, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.6686, 0.5057, 0.3981**, and **8.0479, 0.6160, 0.3491** is the 20% darker color. If you saturate the color by 10%, you get **21.8778, 0.5723, 0.3838**, and if you desaturate by 10%, it is **24.2718, 0.5486, 0.3924**.

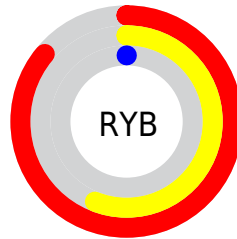
# Distribution



Red (86%)

Green (34%)

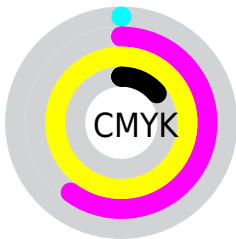
Blue (0%)



Red (86%)

Yellow (56%)

Blue (0%)

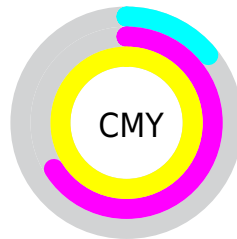


Cyan (0%)

Magenta (60%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (66%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8765, 0.5723, 0.3838 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 21.8765, 0.5723, 0.3838 by changing the saturation by 10% instead.





 21.8765, 0.5723,  
0.3838


 21.8765, 0.5723,  
0.3838


261.9006, 0.4383,  
0.3756


 13.7662, 0.6009,  
0.3761


 46.5418, 0.5259,  
0.3877


 7.9582, 0.6371,  
0.3629


 63.8656, 0.5075,  
0.3869


 4.0682, 0.6679,  
0.3321

 85.0293, 0.4916,  
0.3854

 1.7118, 0.7135,  
0.2865

 110.4173, 0.4779,  
0.3836

 0.4313, 0.8111,  
0.1889

 140.4141, 0.4660,  
0.3816

 0.0000, 1.0000,  
0.0000

 175.4039, 0.4556,

 0.0000, 0.0000,

0.3795


0.0000


 215.7713, 0.4464,  
0.3775


 21.8765, 0.5723,  
0.3838


 21.8765, 0.5723,  
0.3838


 21.8778, 0.5723,  
0.3838

 24.2718, 0.5486,  
0.3924

 27.1415, 0.5201,  
0.3963

 30.5268, 0.4883,  
0.3951

 34.4569, 0.4558,  
0.3896

 38.9583, 0.4246,  
0.3812

■ 44.0553, 0.3960,  
0.3711

■ 49.7706, 0.3706,  
0.3603

■ 56.1257, 0.3483,  
0.3494

■ 63.1408, 0.3292,  
0.3389

# Harmonies

## Analogous

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



21.8765, 0.5590, 0.3041



21.8765, 0.5723, 0.3838



21.8765, 0.5024, 0.4772

# Triad

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



21.8765, 0.5723, 0.3838



21.8765, 0.1716, 0.4527



21.8765, 0.1855, 0.1459

# Complementary

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



21.8765, 0.5723, 0.3838



21.6129, 0.1866, 0.1917

# 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.



21.8765, 0.1251, 0.1463



21.8765, 0.5723, 0.3838



21.8765, 0.1145, 0.2809

# Square

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



21.8765, 0.5723, 0.3838



21.8765, 0.2750, 0.5897



21.8765, 0.1027, 0.1837



21.8765, 0.2959, 0.1752



# Rectangle

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



21.8765, 0.5723, 0.3838



21.8765, 0.4317, 0.5429



21.8765, 0.1027, 0.1837



21.8765, 0.1604, 0.1426

# Sweetspot

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



21.8778, 0.5723, 0.3838



70.0438, 0.3712, 0.3606



16.8102, 0.4490, 0.2247



14.2367, 0.3816, 0.3652



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.



21.8778, 0.5723, 0.3838



30.6289, 0.5737, 0.3826



53.3975, 0.4417, 0.4875



13.8962, 0.3282, 0.3383



13.1732, 0.5696, 0.3859



1.0189, 0.5397, 0.4096

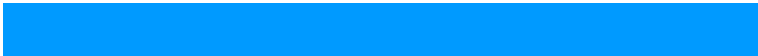


# Inverse Universe

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



21.6129, 0.1866, 0.1917



30.2270, 0.1863, 0.1905



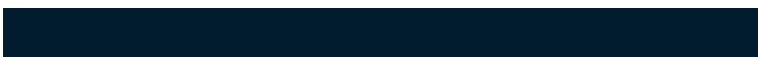
5.8333, 0.1521, 0.0675



13.9161, 0.2982, 0.3195



13.0352, 0.1872, 0.1939



1.0111, 0.1940, 0.2183



# Previews

## White Background



This preview shows how the Yxy color 21.8765, 0.5723, 0.3838 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 21.8765, 0.5723, 0.3838 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 21.8765, 0.5723, 0.3838**

## Background



This preview shows how black text looks on a background with the Yxy color 21.8765, 0.5723, 0.3838.



This preview shows how white text looks on a background with the Yxy color 21.8765, 0.5723, 0.3838.

# 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

21.8765, 0.5723, 0.3838

### Protanopia

22.1342, 0.4335, 0.4802

### Deuteranopia

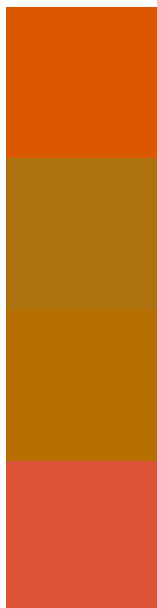
21.9524, 0.4700, 0.4650



## Tritanopia

21.9289, 0.5095, 0.3244

# Trichromacy



## Original Color

21.8765, 0.5723, 0.3838

## Protanomaly

20.9506, 0.4911, 0.4410

## Deuteranomaly

21.2191, 0.5113, 0.4322

## Tritanomaly

21.6780, 0.5457, 0.3553

# Monochromacy



## Original Color

21.8765, 0.5723, 0.3838

## Achromatopsia

17.7888, 0.3127, 0.3290

## Achromatomaly

17.6725, 0.4264, 0.3822

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8765, 0.5723, 0.3838 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(219, 87, 0)` looks like.

```
.text, #text, p{  
    color:rgb(219, 87, 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(219, 87, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 87, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8765, 0.5723, 0.3838 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(219, 87, 0) }
```

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

```
.border{ border-color:rgb(219, 87, 0) }
```

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

Here you see how a box with a 4 pixel rgb(219, 87, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 87, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 87, 0);  
box-shadow:4px 4px 4px 4px rgb(219, 87, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.8765, 0.5723, 0.3838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 87, 0) }
```

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

```
.background{ background-color: rgb(219, 87,  
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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