

# Converting Colors

$Y_{xy}(17.7864, 0.6224, 0.3440)$

Have a look what the booklet for  
Yxy(17.7864, 0.6224, 0.3440)  
contains.

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**Color**

**Yxy(17.7546, 0.6227, 0.3438)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E22900
RGB	226, 41, 0
RGB Percent	89%, 16%, 0%
CMY	0.1137, 0.8392, 1.0000
CMYK	0.00, 0.82, 1.00, 0.11
HSL	11°, 100%, 44%
HSV	11°, 100%, 89%
XYZ	32.1576, 17.7546, 1.7300
YIQ	91.6410, 123.4210, 26.4690

# Conversions

## Conversions Part 2

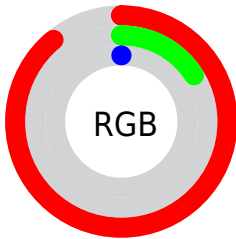
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	226, 50, 0
Decimal	14821632
CIE Lab	49.20, 67.38, 62.13
CIE LCh	49, 91.655, 42.677
Yxy	17.7546, 0.6227, 0.3438
Android (android.graphics.Color)	4293011712 (0xFFE22900)
YUV	91.6410, -45.1790, 117.8328
Hunter-Lab	42.1362, 62.4897, 27.0610

# Details

The Yxy color **17.7546, 0.6227, 0.3438** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **40.1863, 0.2081, 0.2691**, and the grayscale version is **10.7016, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.6686, 0.5449, 0.3667**, and **7.4736, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **17.7559, 0.6227, 0.3438**, and if you desaturate by 10%, it is **19.4101, 0.5986, 0.3509**.

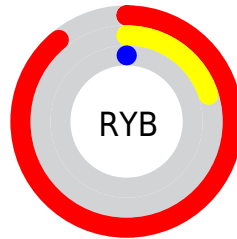
# Distribution



Red (89%)

Green (16%)

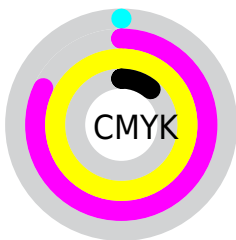
Blue (0%)



Red (89%)

Yellow (20%)

Blue (0%)

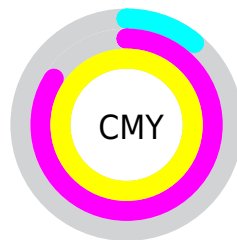


Cyan (0%)

Magenta (82%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (84%)


Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 17.7546, 0.6227, 0.3438 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 17.7546, 0.6227, 0.3438 by changing the saturation by 10% instead.





 17.7546, 0.6227,  
0.3438


 17.7546, 0.6227,  
0.3438


 239.4842, 0.4592,  
0.3623


 10.7739, 0.6598,  
0.3285


 39.6187, 0.5658,  
0.3591


 5.9150, 0.6985,  
0.3015

 55.2710, 0.5432,  
0.3622

 2.7935, 0.7411,  
0.2589

 74.5826, 0.5238,  
0.3637

 1.0249, 0.8018,  
0.1982

 97.9379, 0.5071,  
0.3642


 0.0000, 1.0000,  
0.0000

 125.7213, 0.4926,  
0.3641

 0.0000, 0.0000,  
0.0000


 158.3172, 0.4800,


0.3637


 196.1101, 0.4690,  
0.3631


 17.7546, 0.6227,  
0.3438


 17.7546, 0.6227,  
0.3438


 17.7559, 0.6227,  
0.3438

 19.4101, 0.5986,  
0.3509

 21.8103, 0.5642,  
0.3560

 25.0430, 0.5232,  
0.3577

 29.1775, 0.4808,  
0.3564

 34.2757, 0.4410,  
0.3531

■ 40.3940, 0.4057,  
0.3486

■ 47.5842, 0.3757,  
0.3436

■ 55.8946, 0.3505,  
0.3385

■ 65.3706, 0.3298,  
0.3336

# Harmonies

## Analogous

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



17.7546, 0.5760, 0.2646



17.7546, 0.6227, 0.3438



17.7546, 0.5566, 0.4434

# Triad

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



17.7546, 0.6227, 0.3438



17.7546, 0.1741, 0.5608



17.7546, 0.1380, 0.1180

# Complementary

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



17.7546, 0.6227, 0.3438



40.1863, 0.2081, 0.2691

# 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.



17.7546, 0.0894, 0.1278



17.7546, 0.6227, 0.3438



17.7546, 0.0976, 0.3241

# Square

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



17.7546, 0.6227, 0.3438



17.7546, 0.2957, 0.6583



17.7546, 0.0760, 0.1820



17.7546, 0.2408, 0.1392



# Rectangle

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



17.7546, 0.6227, 0.3438



17.7546, 0.4758, 0.5242



17.7546, 0.0760, 0.1820



17.7546, 0.1170, 0.1177

# Sweetspot

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



17.7559, 0.6227, 0.3438



62.3615, 0.3762, 0.3437



19.8147, 0.3688, 0.1805



12.4540, 0.3884, 0.3459



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.



17.7559, 0.6227, 0.3438



23.2353, 0.6235, 0.3431



38.1961, 0.4944, 0.4456



14.1007, 0.3288, 0.3333



10.2534, 0.6204, 0.3456



0.8302, 0.5921, 0.3680

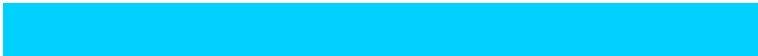


# Inverse Universe

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



40.1863, 0.2081, 0.2691



52.6877, 0.2080, 0.2687



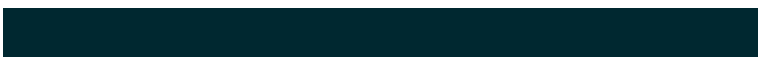
10.5688, 0.1627, 0.1057



15.1272, 0.2982, 0.3246



23.0860, 0.2084, 0.2701



1.7118, 0.2112, 0.2802



# Previews

## White Background



This preview shows how the Yxy color 17.7546, 0.6227, 0.3438 looks on a white 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



# Black Background



This preview shows how the Yxy color 17.7546, 0.6227, 0.3438 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 17.7546, 0.6227, 0.3438**

## Background



This preview shows how black text looks on a background with the Yxy color 17.7546, 0.6227, 0.3438.



This preview shows how white text looks on a background with the Yxy color 17.7546, 0.6227, 0.3438.

# 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

17.7546, 0.6227, 0.3438

### Protanopia

17.9415, 0.4286, 0.4749

### Deuteranopia

17.8842, 0.4690, 0.4658



## Tritanopia

17.7534, 0.6044, 0.3309

# Trichromacy



## Original Color

17.7546, 0.6227, 0.3438

## Protanomaly

15.4598, 0.5205, 0.4130

## Deuteranomaly

15.8857, 0.5435, 0.4066

## Tritanomaly

17.7523, 0.6135, 0.3373

# Monochromacy



## Original Color

17.7546, 0.6227, 0.3438

## Achromatopsia

10.7023, 0.3127, 0.3290

## Achromatomaly

10.7436, 0.4662, 0.3538

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 17.7546, 0.6227, 0.3438 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(226, 41, 0)` looks like.

```
.text, #text, p{  
    color:rgb(226, 41, 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(226, 41, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 41, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 17.7546, 0.6227, 0.3438 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(226, 41, 0) }
```

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

```
.border{ border-color:rgb(226, 41, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 41, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 41, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 41, 0);  
box-shadow:4px 4px 4px 4px rgb(226, 41, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 17.7546, 0.6227, 0.3438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 41, 0) }
```

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

```
.background{ background-color: rgb(226, 41,  
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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