

# Converting Colors

$Y_{xy}(18.1580, 0.6217, 0.3199)$

Have a look what the booklet for  
Yxy(18.1580, 0.6217, 0.3199)  
contains.

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**Color**

**Yxy(18.1319, 0.6217, 0.3199)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED0024
RGB	237, 0, 36
RGB Percent	93%, 0%, 14%
CMY	0.0707, 0.9991, 0.8589
CMYK	0.00, 1.00, 0.85, 0.07
HSL	351°, 100%, 47%
HSV	351°, 100%, 93%
XYZ	35.2379, 18.1319, 3.3101
YIQ	74.9670, 129.6960, 61.4400

# Conversions

## Conversions Part 2

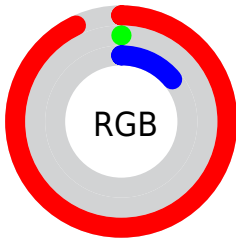
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 0, 36
Decimal	15532068
CIE Lab	49.66, 76.19, 50.78
CIE LCh	50, 91.564, 33.682
Yxy	18.1319, 0.6217, 0.3199
Android (android.graphics.Color)	4293722148 (0xFFED0024)
YUV	74.9670, -19.2107, 142.1029
Hunter-Lab	42.5816, 73.1979, 25.1982

# Details

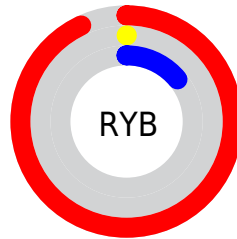
The Yxy color **18.1319, 0.6217, 0.3199** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **64.7849, 0.2384, 0.3780**, and the grayscale version is **7.0723, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.7132, 0.5316, 0.3381**, and **8.6579, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **18.1267, 0.6219, 0.3200**, and if you desaturate by 10%, it is **18.9378, 0.5952, 0.3135**.

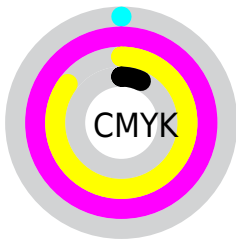
# Distribution



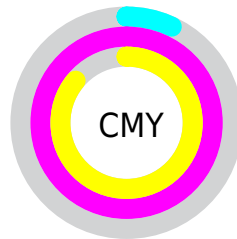
- Red (93%)
- Green (0%)
- Blue (14%)



- Red (93%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (7%)




- Cyan (7%)
- Magenta (100%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.1319, 0.6217, 0.3199 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 18.1319, 0.6217, 0.3199 by changing the saturation by 10% instead.





 18.1319, 0.6217,  
0.3199


 18.1319, 0.6217,  
0.3199


241.6135, 0.4537,  
0.3457


 11.0447, 0.6613,  
0.3042


 40.2620, 0.5607,  
0.3360


 6.0969, 0.7165,  
0.2824

 56.0736, 0.5374,  
0.3399


 2.9041, 0.7608,  
0.2392

 75.5622, 0.5177,  
0.3424

 1.0819, 0.8208,  
0.1792

 99.1122, 0.5009,  
0.3440


 0.0000, 1.0000,  
0.0000


 127.1079, 0.4866,  
0.3449


 0.0000, 0.0000,  
0.0000

 159.9338, 0.4741,


0.3454


 197.9741, 0.4632,  
0.3456


 18.1319, 0.6217,  
0.3199


 18.1319, 0.6217,  
0.3199


 18.1267, 0.6219,  
0.3200

 18.9378, 0.5952,  
0.3135

 20.6095, 0.5582,  
0.3087

 23.4001, 0.5152,  
0.3066

 27.4618, 0.4720,  
0.3072

 32.9232, 0.4323,  
0.3096

■ 39.8970, 0.3981,  
0.3132

■ 48.4843, 0.3696,  
0.3172

■ 58.7776, 0.3464,  
0.3213

■ 70.8624, 0.3276,  
0.3253

# Harmonies

## Analogous

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



18.1319, 0.5330, 0.2422



18.1319, 0.6217, 0.3199



18.1319, 0.5837, 0.4107

# Triad

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



18.1319, 0.6217, 0.3199



18.1319, 0.2090, 0.6145



18.1319, 0.1198, 0.1185

# Complementary

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



18.1319, 0.6217, 0.3199



64.7849, 0.2384, 0.3780

# 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.



18.1319, 0.0831, 0.1391



18.1319, 0.6217, 0.3199



18.1319, 0.1151, 0.3902

# Square

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



18.1319, 0.6217, 0.3199



18.1319, 0.3363, 0.6404



18.1319, 0.0792, 0.2136



18.1319, 0.2036, 0.1306



# Rectangle

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



18.1319, 0.6217, 0.3199



18.1319, 0.5135, 0.4865



18.1319, 0.0792, 0.2136



18.1319, 0.1034, 0.1213

# Sweetspot

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



18.1331, 0.6217, 0.3199



57.0200, 0.3701, 0.3171



18.0590, 0.2785, 0.1308



11.2383, 0.3816, 0.3154



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.



18.1331, 0.6217, 0.3199



21.4032, 0.6226, 0.3203



23.6149, 0.5902, 0.3695



15.0911, 0.3269, 0.3255



9.9105, 0.6189, 0.3183



0.7896, 0.5851, 0.2997



# Inverse Universe

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



18.1331, 0.6217, 0.3199



21.4032, 0.6226, 0.3203



30.5902, 0.1929, 0.2144



15.0911, 0.3269, 0.3255



9.9105, 0.6189, 0.3183



0.7896, 0.5851, 0.2997



# Previews

## White Background



This preview shows how the Yxy color 18.1319, 0.6217, 0.3199 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 18.1319, 0.6217, 0.3199 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 18.1319, 0.6217, 0.3199**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.1319, 0.6217, 0.3199.



This preview shows how white text looks on a background with the Yxy color 18.1319, 0.6217, 0.3199.

# 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

18.1319, 0.6217, 0.3199

### Protanopia

18.7353, 0.4017, 0.4381

### Deuteranopia

18.6139, 0.4695, 0.4654



## Tritanopia

18.3692, 0.6345, 0.3344

# Trichromacy



## Original Color

18.1319, 0.6217, 0.3199

## Protanomaly

14.0658, 0.5144, 0.3622

## Deuteranomaly

14.7392, 0.5639, 0.3822

## Tritanomaly

18.1498, 0.6328, 0.3299

# Monochromacy



## Original Color

18.1319, 0.6217, 0.3199

## Achromatopsia

7.0360, 0.3127, 0.3290

## Achromatomaly

7.5192, 0.4788, 0.3069

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.1319, 0.6217, 0.3199 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(237, 0, 36)` looks like.

```
.text, #text, p{  
  color:rgb(237, 0, 36)  
}
```

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(237, 0, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 0, 36) }
```

## Border

The CSS property to change the border of an element to Yxy 18.1319, 0.6217, 0.3199 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(237, 0, 36) }
```

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

```
.border{ border-color:rgb(237, 0, 36) }
```

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

Here you see how a box with a 4 pixel rgb(237, 0, 36) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 0, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 0, 36);  
box-shadow:4px 4px 4px 4px rgb(237, 0, 36)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 18.1319, 0.6217, 0.3199 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 0, 36) }
```

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

```
.background{ background-color: rgb(237, 0,  
36) }
```

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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