

# Converting Colors

$Y_{xy}(16.8027, 0.5730, 0.2931)$

Have a look what the booklet for  
Yxy(16.8027, 0.5730, 0.2931)  
contains.

<b>Yxy(16.7988, 0.5734, 0.2932)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(16.7988, 0.5734, 0.2932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E30048
RGB	227, 0, 72
RGB Percent	89%, 0%, 28%
CMY	0.1097, 1.0000, 0.7176
CMYK	0.00, 1.00, 0.68, 0.11
HSL	341°, 100%, 45%
HSV	341°, 100%, 89%
XYZ	32.8528, 16.7988, 7.6431
YIQ	76.0810, 112.1800, 70.5160

# Conversions

## Conversions Part 2

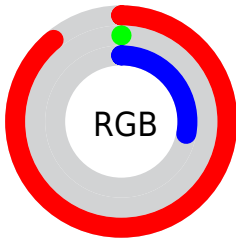
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 0, 72
Decimal	14876744
CIE Lab	48.01, 75.01, 27.85
CIE LCh	48, 80.016, 20.370
Yxy	16.7988, 0.5734, 0.2932
Android (android.graphics.Color)	4293066824 (0xFFE30048)
YUV	76.0810, -2.0119, 132.3560
Hunter-Lab	40.9863, 71.3513, 17.6341

# Details

The Yxy color **16.7988, 0.5734, 0.2932** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **57.3148, 0.2548, 0.4374**, and the grayscale version is **7.2322, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2704, 0.4856, 0.3034**, and **7.8803, 0.6096, 0.3132** is the 20% darker color. If you saturate the color by 10%, you get **16.8018, 0.5734, 0.2932**, and if you desaturate by 10%, it is **17.6313, 0.5430, 0.2839**.

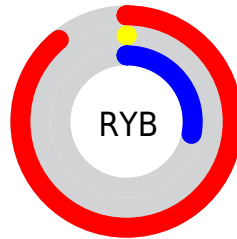
# Distribution



Red (89%)

Green (0%)

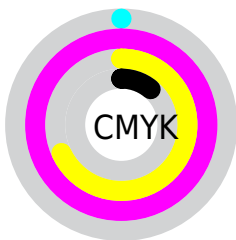
Blue (28%)



Red (89%)

Yellow (0%)

Blue (28%)

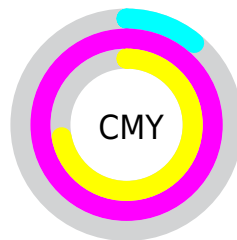


Cyan (0%)

Magenta (100%)

Yellow (68%)

Black (11%)



Cyan (11%)

Magenta (100%)


Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.7988, 0.5734, 0.2932 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 16.7988, 0.5734, 0.2932 by changing the saturation by 10% instead.





 16.7988, 0.5734,  
0.2932


 16.7988, 0.5734,  
0.2932


234.0102, 0.4239,  
0.3235


 10.0911, 0.6151,  
0.2799


 37.9795, 0.5151,  
0.3081


 5.4594, 0.6693,  
0.2591

 53.2214, 0.4943,  
0.3124


 2.5193, 0.7510,  
0.2287

 72.0767, 0.4772,  
0.3156

 0.8863, 0.8299,  
0.1701

 94.9300, 0.4630,  
0.3181

 0.0000, 1.0000,  
0.0000

 122.1656, 0.4509,  
0.3199

 0.0000, 0.0000,  
0.0000

 154.1679, 0.4406,

0.3214

191.3213, 0.4317,  
0.3225

■ 16.7988, 0.5734,  
0.2932

■ 16.7988, 0.5734,  
0.2932

■ 16.8018, 0.5734,  
0.2932

■ 17.6313, 0.5430,  
0.2839

■ 19.2210, 0.5085,  
0.2786

■ 21.8010, 0.4726,  
0.2780

■ 25.5046, 0.4383,  
0.2815

■ 30.4443, 0.4075,  
0.2877

■ 36.7186, 0.3808,  
0.2956

■ 44.4163, 0.3585,  
0.3041

■ 53.6181, 0.3401,  
0.3128

■ 64.3990, 0.3250,  
0.3211

# Harmonies

## Analogous

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



16.7988, 0.4436, 0.2195



16.7988, 0.5734, 0.2932



16.7988, 0.5912, 0.3738

# Triad

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



16.7988, 0.5734, 0.2932



16.7988, 0.2758, 0.6195



16.7988, 0.1120, 0.1368

# Complementary

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



16.7988, 0.5734, 0.2932



57.3148, 0.2548, 0.4374

# 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.



16.7988, 0.0913, 0.1774



16.7988, 0.5734, 0.2932



16.7988, 0.1660, 0.4797

# Square

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



16.7988, 0.5734, 0.2932



16.7988, 0.4009, 0.5804



16.7988, 0.1047, 0.2852



16.7988, 0.1707, 0.1346



# Rectangle

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



16.7988, 0.5734, 0.2932



16.7988, 0.5493, 0.4372



16.7988, 0.1047, 0.2852



16.7988, 0.1014, 0.1452

# Sweetspot

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



16.8018, 0.5734, 0.2932



57.6007, 0.3589, 0.3040



12.1594, 0.2373, 0.1081



11.3724, 0.3679, 0.3003



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.



16.8018, 0.5734, 0.2932



21.8523, 0.5750, 0.2941



17.7096, 0.6250, 0.3419



14.4429, 0.3243, 0.3216



9.8158, 0.5695, 0.2911



0.7417, 0.5280, 0.2682



# Inverse Universe

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



16.8018, 0.5734, 0.2932



21.8523, 0.5750, 0.2941



42.0204, 0.2095, 0.2742



14.4429, 0.3243, 0.3216



9.8158, 0.5695, 0.2911



0.7417, 0.5280, 0.2682



# Previews

## White Background



This preview shows how the Yxy color 16.7988, 0.5734, 0.2932 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 16.7988, 0.5734, 0.2932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

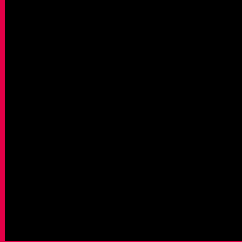
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 16.7988, 0.5734, 0.2932**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.7988, 0.5734, 0.2932.

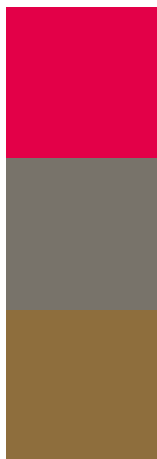


This preview shows how white text looks on a background with the Yxy color 16.7988, 0.5734, 0.2932.

# 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

16.7988, 0.5734, 0.2932

### Protanopia

17.2951, 0.3304, 0.3467

### Deuteranopia

17.2396, 0.4221, 0.4141



## Tritanopia

17.1177, 0.6193, 0.3315

# Trichromacy



## Original Color

16.7988, 0.5734, 0.2932

## Protanomaly

12.9442, 0.4275, 0.2959

## Deuteranomaly

13.6462, 0.5021, 0.3362

## Tritanomaly

16.7685, 0.6094, 0.3194

# Monochromacy



## Original Color

16.7988, 0.5734, 0.2932

## Achromatopsia

7.2272, 0.3127, 0.3290

## Achromatomaly

7.4472, 0.4392, 0.2798

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.7988, 0.5734, 0.2932 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(227, 0, 72)` looks like.

```
.text, #text, p{  
  color:rgb(227, 0, 72)  
}
```

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(227, 0, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 72) }
```

## Border

The CSS property to change the border of an element to Yxy 16.7988, 0.5734, 0.2932 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(227, 0, 72) }
```

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

```
.border{ border-color:rgb(227, 0, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 0, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 72);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 72)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 16.7988, 0.5734, 0.2932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 0, 72) }
```

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

```
.background{ background-color: rgb(227, 0,  
72) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**