

# Converting Colors

$Y_{xy}(13.5659, 0.6595, 0.2883)$

Have a look what the booklet for  
Yxy(13.5659, 0.6595, 0.2883)  
contains.

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**Color**

**Yxy(16.7678, 0.6229, 0.3205)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E50021
RGB	229, 0, 33
RGB Percent	90%, 0%, 13%
CMY	0.1020, 0.9999, 0.8704
CMYK	0.00, 1.00, 0.86, 0.10
HSL	351°, 100%, 45%
HSV	351°, 100%, 90%
XYZ	32.5887, 16.7678, 2.9612
YIQ	72.2330, 125.8910, 58.8110

# Conversions

## Conversions Part 2

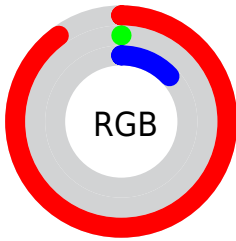
Format	Color
<a href="#">RYB</a>	229, 0, 33
Decimal	15007777
CIELab	47.97, 74.24, 50.14
CIElCh	48, 89.586, 34.035
Yxy	16.7678, 0.6229, 0.3205
Android (android.graphics.Color)	4293197857 (0xFFE50021)
YUV	72.2330, -19.3419, 137.4847
Hunter-Lab	40.9485, 70.3984, 24.3764

# Details

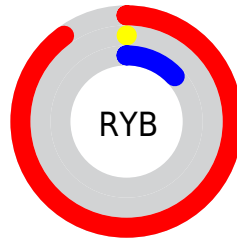
The Yxy color **16.7678, 0.6229, 0.3205** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **60.0242, 0.2377, 0.3756**, and the grayscale version is **6.5439, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.3214, 0.5364, 0.3388**, and **7.7865, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **16.7682, 0.6229, 0.3205**, and if you desaturate by 10%, it is **17.5219, 0.5967, 0.3144**.

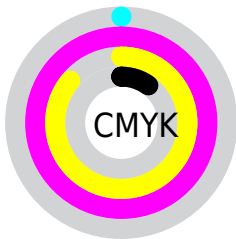
# Distribution



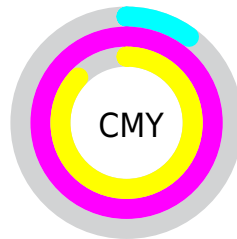
- Red (90%)
- Green (0%)
- Blue (13%)



- Red (90%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (86%)
- Black (10%)




- Cyan (10%)
- Magenta (100%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.7678, 0.6229, 0.3205 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 16.7678, 0.6229, 0.3205 by changing the saturation by 10% instead.





 16.7678, 0.6229,  
0.3205


 16.7678, 0.6229,  
0.3205


233.8307, 0.4525,  
0.3463


 10.0691, 0.6635,  
0.3041


 37.9261, 0.5606,  
0.3370


 5.4448, 0.7193,  
0.2807

 53.1545, 0.5369,  
0.3409


 2.5105, 0.7649,  
0.2351

 71.9949, 0.5169,  
0.3434

 0.8819, 0.8283,  
0.1717

 94.8317, 0.5000,  
0.3449

 0.0000, 1.0000,  
0.0000


 122.0492, 0.4855,  
0.3457

 0.0000, 0.0000,  
0.0000

 154.0320, 0.4729,


0.3462

 191.1644, 0.4620,  
0.3463


 16.7678, 0.6229,  
0.3205


 16.7678, 0.6229,  
0.3205


 16.7682, 0.6229,  
0.3205


 17.5219, 0.5967,  
0.3144


 19.0697, 0.5597,  
0.3097


 21.6508, 0.5167,  
0.3077


 25.4053, 0.4732,  
0.3082

 30.4517, 0.4333,  
0.3105

 36.8936, 0.3988,  
0.3139

 44.8243, 0.3701,  
0.3177

 54.3291, 0.3467,  
0.3216

 65.4867, 0.3279,  
0.3254

# Harmonies

## Analogous

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



16.7678, 0.5357, 0.2428



16.7678, 0.6229, 0.3205



16.7678, 0.5840, 0.4123

# Triad

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



16.7678, 0.6229, 0.3205



16.7678, 0.2070, 0.6141



16.7678, 0.1200, 0.1180

# Complementary

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



16.7678, 0.6229, 0.3205



60.0242, 0.2377, 0.3756

# 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.



16.7678, 0.0828, 0.1381



16.7678, 0.6229, 0.3205



16.7678, 0.1138, 0.3876

# Square

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



16.7678, 0.6229, 0.3205



16.7678, 0.3346, 0.6428



16.7678, 0.0785, 0.2118



16.7678, 0.2046, 0.1304



# Rectangle

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



16.7678, 0.6229, 0.3205



16.7678, 0.5122, 0.4878



16.7678, 0.0785, 0.2118



16.7678, 0.1034, 0.1206

# Sweetspot

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



16.7689, 0.6229, 0.3205



56.9974, 0.3706, 0.3176



17.2140, 0.2828, 0.1331



11.2332, 0.3821, 0.3160



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.



16.7689, 0.6229, 0.3205



21.3922, 0.6239, 0.3210



22.4202, 0.5857, 0.3731



14.4017, 0.3270, 0.3256



9.5977, 0.6201, 0.3190



0.7199, 0.5853, 0.2998



# Inverse Universe

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



16.7689, 0.6229, 0.3205



21.3922, 0.6239, 0.3210



27.1080, 0.1913, 0.2085



14.4017, 0.3270, 0.3256



9.5977, 0.6201, 0.3190



0.7199, 0.5853, 0.2998



# Previews

## White Background



This preview shows how the Yxy color 16.7678, 0.6229, 0.3205 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 16.7678, 0.6229, 0.3205 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 16.7678, 0.6229, 0.3205**

## Background



This preview shows how black text looks on a background with the Yxy color 16.7678, 0.6229, 0.3205.



This preview shows how white text looks on a background with the Yxy color 16.7678, 0.6229, 0.3205.

# 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

16.7678, 0.6229, 0.3205

### Protanopia

17.3558, 0.4027, 0.4414

### Deuteranopia

17.2629, 0.4697, 0.4652



## Tritanopia

17.0303, 0.6341, 0.3347

# Trichromacy



## Original Color

16.7678, 0.6229, 0.3205

## Protanomaly

13.1021, 0.5158, 0.3657

## Deuteranomaly

13.6370, 0.5645, 0.3818

## Tritanomaly

16.8084, 0.6326, 0.3302

# Monochromacy



## Original Color

16.7678, 0.6229, 0.3205

## Achromatopsia

6.4803, 0.3127, 0.3290

## Achromatomaly

6.9266, 0.4799, 0.3080

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.7678, 0.6229, 0.3205 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(229, 0, 33)` looks like.

```
.text, #text, p{  
  color:rgb(229, 0, 33)  
}
```

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(229, 0, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 16.7678, 0.6229, 0.3205 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(229, 0, 33) }
```

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

```
.border{ border-color:rgb(229, 0, 33) }
```

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

Here you see how a box with a 4 pixel rgb(229, 0, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 33)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 16.7678, 0.6229, 0.3205 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 33) }
```

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

```
.background{ background-color: rgb(229, 0,  
33) }
```

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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