

# Converting Colors

$Y_{xy}(12.2845, 0.6077, 0.3121)$

Have a look what the booklet for  
Yxy(12.2845, 0.6077, 0.3121)  
contains.

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**Color**

**Yxy(12.2953, 0.6083, 0.3125)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C70028
RGB	199, 0, 40
RGB Percent	78%, 0%, 16%
CMY	0.2197, 0.9995, 0.8433
CMYK	0.00, 1.00, 0.80, 0.22
HSL	348°, 100%, 39%
HSV	348°, 100%, 78%
XYZ	23.9335, 12.2953, 3.1161
YIQ	64.0610, 105.7640, 54.6280

# Conversions

## Conversions Part 2

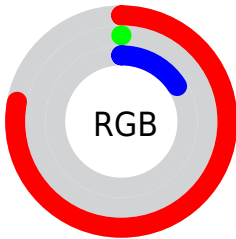
<b>Format</b>	<b>Color</b>
<b>RYB</b>	199, 0, 40
Decimal	13041704
CIELab	41.68, 67.11, 38.28
CIELCh	42, 77.257, 29.698
Yxy	12.2953, 0.6083, 0.3125
Android (android.graphics.Color)	4291231784 (0xFFC70028)
YUV	64.0610, -11.8621, 118.3415
Hunter-Lab	35.0647, 60.4728, 19.2763

# Details

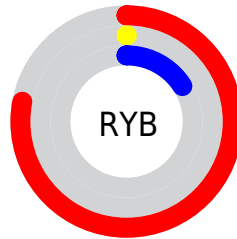
The Yxy color **12.2953, 0.6083, 0.3125** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **43.3504, 0.2429, 0.3946**, and the grayscale version is **5.1527, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.4289, 0.5340, 0.3288**, and **5.2342, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.2928, 0.6084, 0.3125**, and if you desaturate by 10%, it is **12.9258, 0.5786, 0.3051**.

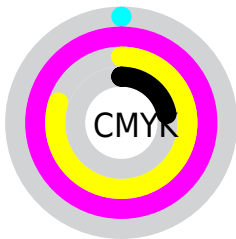
# Distribution



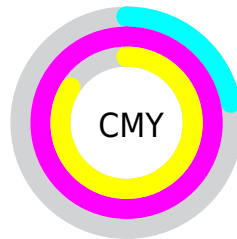
- Red (78%)
- Green (0%)
- Blue (16%)



- Red (78%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (22%)




- Cyan (22%)
- Magenta (100%)
- Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2953, 0.6083, 0.3125 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 12.2953, 0.6083, 0.3125 by changing the saturation by 10% instead.





 12.2953, 0.6083,  
0.3125


 12.2953, 0.6083,  
0.3125


206.3506, 0.4349,  
0.3388


 6.9451, 0.6555,  
0.2954


 30.0318, 0.5407,  
0.3289


 3.4278, 0.7284,  
0.2716

 43.1869, 0.5164,  
0.3327


 1.3589, 0.7838,  
0.2162

 59.7125, 0.4965,  
0.3352

 0.1862, 0.9232,  
0.0768

 79.9929, 0.4799,  
0.3367

 0.0000, 1.0000,  
0.0000


 104.4125, 0.4659,  
0.3377

 0.0000, 0.0000,  
0.0000


 133.3557, 0.4541,


0.3383


 167.2069, 0.4438,  
0.3386


 12.2953, 0.6083,  
0.3125

 12.2953, 0.6083,  
0.3125


 12.2928, 0.6084,  
0.3125

 12.9258, 0.5786,  
0.3051

 14.1177, 0.5412,  
0.3000

 16.0527, 0.5000,  
0.2983

 18.8278, 0.4597,  
0.2998

 22.5255, 0.4232,  
0.3033

■ 27.2182, 0.3918,  
0.3081

■ 32.9709, 0.3656,  
0.3134

■ 39.8434, 0.3441,  
0.3189

■ 47.8908, 0.3267,  
0.3241

# Harmonies

## Analogous

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



12.2953, 0.5045, 0.2357



12.2953, 0.6083, 0.3125



12.2953, 0.5884, 0.3999

# Triad

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



12.2953, 0.6083, 0.3125



12.2953, 0.2303, 0.6184



12.2953, 0.1174, 0.1242

# Complementary

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



12.2953, 0.6083, 0.3125



43.3504, 0.2429, 0.3946

# 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.



12.2953, 0.0857, 0.1504



12.2953, 0.6083, 0.3125



12.2953, 0.1304, 0.4190

# Square

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



12.2953, 0.6083, 0.3125



12.2953, 0.3592, 0.6240



12.2953, 0.0868, 0.2346



12.2953, 0.1928, 0.1320



# Rectangle

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



12.2953, 0.6083, 0.3125



12.2953, 0.5278, 0.4722



12.2953, 0.0868, 0.2346



12.2953, 0.1029, 0.1285

# Sweetspot

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



12.2961, 0.6083, 0.3125



57.1874, 0.3668, 0.3132



11.1835, 0.2664, 0.1241



11.2768, 0.3775, 0.3109



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.



12.2961, 0.6083, 0.3125



21.4998, 0.6115, 0.3142



15.0145, 0.6009, 0.3610



10.6711, 0.3259, 0.3244



7.9158, 0.6054, 0.3109



0.3854, 0.5474, 0.2789



# Inverse Universe

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



12.2961, 0.6083, 0.3125



21.4998, 0.6115, 0.3142



23.6614, 0.1983, 0.2336



10.6711, 0.3259, 0.3244



7.9158, 0.6054, 0.3109



0.3854, 0.5474, 0.2789



# Previews

## White Background



This preview shows how the Yxy color 12.2953, 0.6083, 0.3125 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 12.2953, 0.6083, 0.3125 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 12.2953, 0.6083, 0.3125**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.2953, 0.6083, 0.3125.



This preview shows how white text looks on a background with the Yxy color 12.2953, 0.6083, 0.3125.

# 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

12.2953, 0.6083, 0.3125

### Protanopia

12.9702, 0.3812, 0.4137

### Deuteranopia

12.9480, 0.4554, 0.4498



## Tritanopia

12.4067, 0.6339, 0.3348

# Trichromacy



## Original Color

12.2953, 0.6083, 0.3125

## Protanomaly

9.6839, 0.4880, 0.3461

## Deuteranomaly

10.2035, 0.5440, 0.3690

## Tritanomaly

12.2796, 0.6289, 0.3287

# Monochromacy



## Original Color

12.2953, 0.6083, 0.3125

## Achromatopsia

5.1269, 0.3127, 0.3290

## Achromatomaly

5.3724, 0.4638, 0.3005

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.2953, 0.6083, 0.3125 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(199, 0, 40)` looks like.

```
.text, #text, p{  
    color:rgb(199, 0, 40)  
}
```

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(199, 0, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 0, 40) }
```

## Border

The CSS property to change the border of an element to Yxy 12.2953, 0.6083, 0.3125 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(199, 0, 40) }
```

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

```
.border{ border-color:rgb(199, 0, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 0, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 0, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 0, 40);  
box-shadow:4px 4px 4px 4px rgb(199, 0, 40)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 12.2953, 0.6083, 0.3125 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 0, 40) }
```

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

```
.background{ background-color: rgb(199, 0,  
40) }
```

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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