

# Converting Colors

$Y_{xy}(13.2092, 0.6274, 0.3230)$

Have a look what the booklet for  
Yxy(13.2092, 0.6274, 0.3230)  
contains.

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**Color**

**Yxy(13.1837, 0.6277, 0.3231)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CE0017
RGB	206, 0, 23
RGB Percent	81%, 0%, 9%
CMY	0.1921, 1.0000, 0.9096
CMYK	0.00, 1.00, 0.89, 0.19
HSL	353°, 100%, 40%
HSV	353°, 100%, 81%
XYZ	25.6125, 13.1837, 2.0075
YIQ	64.2160, 115.3930, 50.8250

# Conversions

## Conversions Part 2

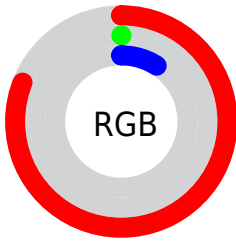
Format	Color
<a href="#">RYB</a>	206, 0, 23
Decimal	13500439
CIELab	43.04, 68.48, 48.95
CIElCh	43, 84.177, 35.561
Yxy	13.1837, 0.6277, 0.3231
Android (android.graphics.Color)	4291690519 (0xFFCE0017)
YUV	64.2160, -20.3195, 124.3446
Hunter-Lab	36.3094, 62.3720, 22.1384

# Details

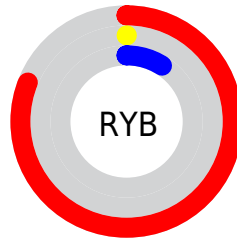
The Yxy color **13.1837, 0.6277, 0.3231** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **47.5694, 0.2346, 0.3644**, and the grayscale version is **5.1807, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.3452, 0.5520, 0.3428**, and **5.6627, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **13.1865, 0.6277, 0.3231**, and if you desaturate by 10%, it is **13.8087, 0.6026, 0.3185**.

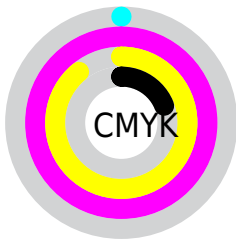
# Distribution



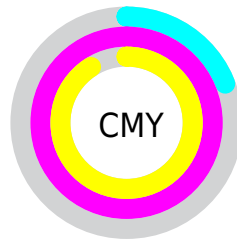
- Red (81%)
- Green (0%)
- Blue (9%)



- Red (81%)
- Yellow (0%)
- Blue (9%)



- Cyan (0%)
- Magenta (100%)
- Yellow (89%)
- Black (19%)




- Cyan (19%)
- Magenta (100%)
- Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.1837, 0.6277, 0.3231 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 13.1837, 0.6277, 0.3231 by changing the saturation by 10% instead.




 13.1837, 0.6277,  
0.3231


 13.1837, 0.6277,  
0.3231


212.0916, 0.4495,  
0.3490


 7.5552, 0.6725,  
0.3049


 31.6334, 0.5614,  
0.3410


 3.8117, 0.7258,  
0.2742

 45.2234, 0.5364,  
0.3449


 1.5688, 0.7787,  
0.2213

 62.2360, 0.5156,  
0.3472

 0.3364, 0.8852,  
0.1148

 83.0555, 0.4981,  
0.3484

 0.0000, 1.0000,  
0.0000


 108.0665, 0.4831,  
0.3491


 0.0000, 0.0000,  
0.0000


 137.6532, 0.4703,


0.3493


 172.2001, 0.4592,  
0.3492

 13.1837, 0.6277,  
0.3231


 13.1837, 0.6277,  
0.3231


 13.1865, 0.6277,  
0.3231

 13.8087, 0.6026,  
0.3185

 15.0469, 0.5660,  
0.3147

 17.0977, 0.5225,  
0.3130

 20.0695, 0.4780,  
0.3132

 24.0538, 0.4369,  
0.3149

■ 29.1311, 0.4014,  
0.3174

■ 35.3739, 0.3718,  
0.3203

■ 42.8484, 0.3477,  
0.3233

■ 51.6157, 0.3283,  
0.3263

# Harmonies

## Analogous

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



13.1837, 0.5472, 0.2451



13.1837, 0.6277, 0.3231



13.1837, 0.5827, 0.4173

# Triad

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



13.1837, 0.6277, 0.3231



13.1837, 0.1985, 0.6118



13.1837, 0.1209, 0.1157

# Complementary

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



13.1837, 0.6277, 0.3231



47.5694, 0.2346, 0.3644

# 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.



13.1837, 0.0818, 0.1338



13.1837, 0.6277, 0.3231



13.1837, 0.1079, 0.3761

# Square

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



13.1837, 0.6277, 0.3231



13.1837, 0.3270, 0.6531



13.1837, 0.0756, 0.2038



13.1837, 0.2091, 0.1297



# Rectangle

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



13.1837, 0.6277, 0.3231



13.1837, 0.5063, 0.4937



13.1837, 0.0756, 0.2038



13.1837, 0.1035, 0.1178

# Sweetspot

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



13.1865, 0.6277, 0.3231



56.8904, 0.3728, 0.3202



14.4001, 0.2914, 0.1379



11.2087, 0.3848, 0.3189



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.



13.1865, 0.6277, 0.3231



21.3464, 0.6294, 0.3241



18.7126, 0.5756, 0.3812



11.2337, 0.3273, 0.3264



8.1255, 0.6254, 0.3219



0.4262, 0.5861, 0.3003



# Inverse Universe

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



13.1865, 0.6277, 0.3231



21.3464, 0.6294, 0.3241



19.6474, 0.1881, 0.1973



11.2337, 0.3273, 0.3264



8.1255, 0.6254, 0.3219



0.4262, 0.5861, 0.3003



# Previews

## White Background



This preview shows how the Yxy color 13.1837, 0.6277, 0.3231 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 13.1837, 0.6277, 0.3231 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 13.1837, 0.6277, 0.3231**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.1837, 0.6277, 0.3231.



This preview shows how white text looks on a background with the Yxy color 13.1837, 0.6277, 0.3231.

# 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

13.1837, 0.6277, 0.3231

### Protanopia

13.7737, 0.4126, 0.4528

### Deuteranopia

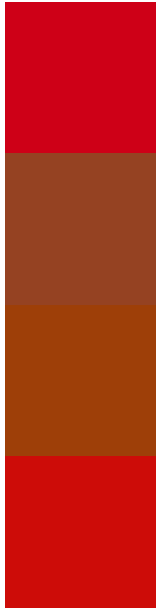
13.7490, 0.4686, 0.4661



## Tritanopia

13.4449, 0.6335, 0.3352

# Trichromacy



## Original Color

13.1837, 0.6277, 0.3231

## Protanomaly

10.4015, 0.5266, 0.3744

## Deuteranomaly

10.8416, 0.5637, 0.3838

## Tritanomaly

13.2596, 0.6328, 0.3310

# Monochromacy



## Original Color

13.1837, 0.6277, 0.3231

## Achromatopsia

5.1269, 0.3127, 0.3290

## Achromatomaly

5.5206, 0.4860, 0.3138

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.1837, 0.6277, 0.3231 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(206, 0, 23)` looks like.

```
.text, #text, p{  
    color:rgb(206, 0, 23)  
}
```

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(206, 0, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 0, 23) }
```

## Border

The CSS property to change the border of an element to Yxy 13.1837, 0.6277, 0.3231 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(206, 0, 23) }
```

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

```
.border{ border-color:rgb(206, 0, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 0, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 0, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 0, 23);  
box-shadow:4px 4px 4px 4px rgb(206, 0, 23)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 13.1837, 0.6277, 0.3231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 0, 23) }
```

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

```
.background{ background-color: rgb(206, 0,  
23) }
```

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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