

# Converting Colors

$Y_{xy}(12.5716, 0.5881, 0.3131)$

Have a look what the booklet for  
Yxy(12.5716, 0.5881, 0.3131)  
contains.

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**Color**

**Yxy(12.5620, 0.5880, 0.3129)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C41730
RGB	196, 23, 48
RGB Percent	77%, 9%, 19%
CMY	0.2313, 0.9098, 0.8117
CMYK	0.00, 0.88, 0.76, 0.23
HSL	351°, 79%, 43%
HSV	351°, 88%, 77%
XYZ	23.6064, 12.5620, 3.9786
YIQ	77.5770, 95.0830, 44.4510

# Conversions

## Conversions Part 2

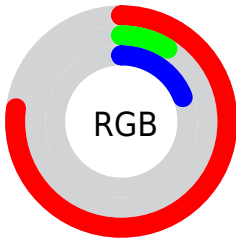
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	196, 23, 48
Decimal	12850992
CIE <sub>Lab</sub>	42.10, 63.88, 33.80
CIE <sub>LCh</sub>	42, 72.270, 27.883
Yxy	12.5620, 0.5880, 0.3129
Android (android.graphics.Color)	4291041072 (0xFFC41730)
YUV	77.5770, -14.5815, 103.8570
Hunter-Lab	35.4429, 56.8633, 18.1546

# Details

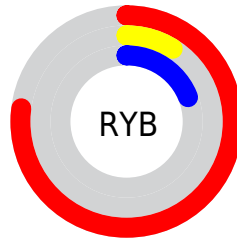
The Yxy color **12.5620, 0.5880, 0.3129** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **42.6045, 0.2379, 0.3694**, and the grayscale version is **7.5495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.5503, 0.5201, 0.3270**, and **4.9931, 0.6365, 0.3280** is the 20% darker color. If you saturate the color by 10%, you get **11.9106, 0.6170, 0.3188**, and if you desaturate by 10%, it is **13.8143, 0.5493, 0.3089**.

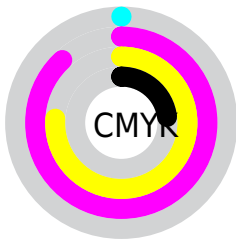
# Distribution



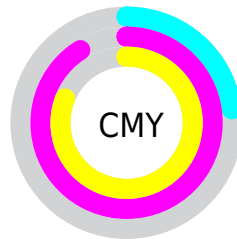
- Red (77%)
- Green (9%)
- Blue (19%)



- Red (77%)
- Yellow (9%)
- Blue (19%)



- Cyan (0%)
- Magenta (88%)
- Yellow (76%)
- Black (23%)




- Cyan (23%)
- Magenta (91%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.5620, 0.5880, 0.3129 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 12.5620, 0.5880, 0.3129 by changing the saturation by 10% instead.





 12.5620, 0.5880,  
0.3129


 12.5620, 0.5880,  
0.3129


208.0912, 0.4251,  
0.3360


 7.1276, 0.6344,  
0.2981


 30.5146, 0.5234,  
0.3270


 3.5421, 0.7013,  
0.2753

 43.8017, 0.5006,  
0.3303


 1.4208, 0.7721,  
0.2279

 60.4751, 0.4820,  
0.3325

 0.2320, 0.9035,  
0.0965

 80.9192, 0.4666,  
0.3339

 0.0000, 1.0000,  
0.0000

 105.5185, 0.4537,  
0.3348

 0.0000, 0.0000,  
0.0000

 134.6573, 0.4427,

0.3354

168.7201, 0.4333,  
0.3358

■ 12.5620, 0.5880,  
0.3129

■ 12.5620, 0.5880,  
0.3129

■ 11.9106, 0.6170,  
0.3188

■ 13.8143, 0.5493,  
0.3089

■ 11.8221, 0.6212,  
0.3196

■ 15.8057, 0.5061,  
0.3076

■ 18.6286, 0.4636,  
0.3086

■ 22.3613, 0.4252,  
0.3111

■ 27.0730, 0.3923,  
0.3146

■ 32.8263, 0.3650,  
0.3185

■ 39.6784, 0.3428,  
0.3224

■ 47.6824, 0.3249,  
0.3261

■ 56.8882, 0.3104,  
0.3296

# Harmonies

## Analogous

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



12.5620, 0.4827, 0.2375



12.5620, 0.5880, 0.3129



12.5620, 0.5784, 0.3965

# Triad

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



12.5620, 0.5880, 0.3129



12.5620, 0.2462, 0.6006



12.5620, 0.1232, 0.1339

# Complementary

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



12.5620, 0.5880, 0.3129



42.6045, 0.2379, 0.3694

# 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.



12.5620, 0.0941, 0.1631



12.5620, 0.5880, 0.3129



12.5620, 0.1460, 0.4262

# Square

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



12.5620, 0.5880, 0.3129



12.5620, 0.3698, 0.6011



12.5620, 0.0983, 0.2501



12.5620, 0.1937, 0.1394



# Rectangle

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



12.5620, 0.5880, 0.3129



12.5620, 0.5287, 0.4663



12.5620, 0.0983, 0.2501



12.5620, 0.1096, 0.1391

# Sweetspot

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



12.5628, 0.5880, 0.3129



61.6168, 0.3605, 0.3192



13.1506, 0.2877, 0.1409



12.3285, 0.3692, 0.3178



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.



12.5628, 0.5880, 0.3129



21.3928, 0.6238, 0.3210



18.0694, 0.5538, 0.3840



10.1011, 0.3267, 0.3257



7.6036, 0.6186, 0.3181



0.3363, 0.5663, 0.2893



# Inverse Universe

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



12.5628, 0.5880, 0.3129



21.3928, 0.6238, 0.3210



21.6225, 0.1983, 0.2251



10.1011, 0.3267, 0.3257



7.6036, 0.6186, 0.3181



0.3363, 0.5663, 0.2893



# Previews

## White Background



This preview shows how the Yxy color 12.5620, 0.5880, 0.3129 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

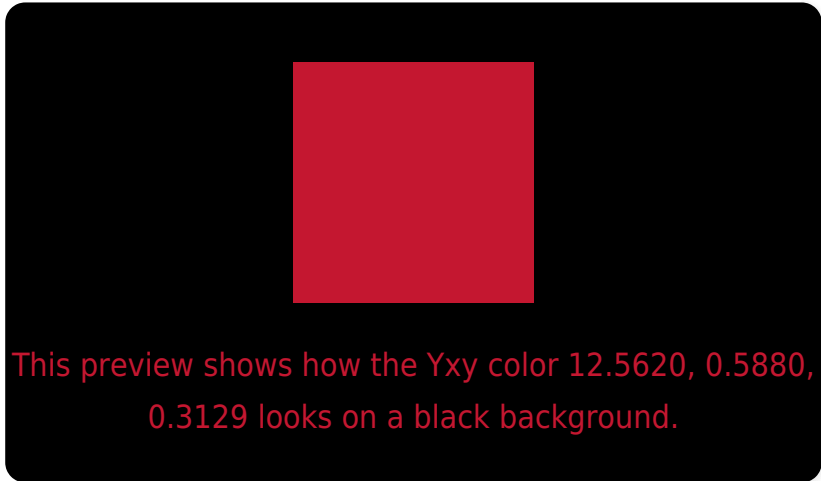
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## 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 12.5620, 0.5880, 0.3129**

## Background



This preview shows how black text looks on a background with the Yxy color 12.5620, 0.5880, 0.3129.



This preview shows how white text looks on a background with the Yxy color 12.5620, 0.5880, 0.3129.

# 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

12.5620, 0.5880, 0.3129

### Protanopia

13.0135, 0.3672, 0.3950

### Deuteranopia

12.9349, 0.4431, 0.4368



## Tritanopia

12.6365, 0.6127, 0.3315

# Trichromacy



## Original Color

12.5620, 0.5880, 0.3129

## Protanomaly

10.7867, 0.4589, 0.3470

## Deuteranomaly

10.9956, 0.5148, 0.3702

## Tritanomaly

12.5844, 0.6060, 0.3258

# Monochromacy



## Original Color

12.5620, 0.5880, 0.3129

## Achromatopsia

7.6185, 0.3127, 0.3290

## Achromatomaly

7.4963, 0.4317, 0.3108

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.5620, 0.5880, 0.3129 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(196, 23, 48)` looks like.

```
.text, #text, p{  
    color:rgb(196, 23, 48)  
}
```

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(196, 23, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 23, 48) }
```

## Border

The CSS property to change the border of an element to Yxy 12.5620, 0.5880, 0.3129 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(196, 23, 48) }
```

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

```
.border{ border-color:rgb(196, 23, 48) }
```

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

Here you see how a box with a 4 pixel rgb(196, 23, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 23, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 23, 48);  
box-shadow:4px 4px 4px 4px rgb(196, 23,  
48) }
```



# Background

The CSS property to change the background color of an element to Yxy 12.5620, 0.5880, 0.3129 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 23, 48) }
```

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

```
.background{ background-color: rgb(196, 23,  
48) }
```

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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