

Converting Colors

$Y_{xy}(12.2339, 0.6177, 0.3176)$

Have a look what the booklet for
Yxy(12.2339, 0.6177, 0.3176)
contains.

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Color

Yxy(12.2464, 0.6180, 0.3178)

Conversions

Conversions Part 1

Format	Color
Hex	C70020
RGB	199, 0, 32
RGB Percent	78%, 0%, 13%
CMY	0.2196, 0.9999, 0.8746
CMYK	0.00, 1.00, 0.84, 0.22
HSL	350°, 100%, 39%
HSV	350°, 100%, 78%
XYZ	23.8146, 12.2464, 2.4739
YIQ	63.1490, 108.3320, 52.1400

Conversions

Conversions Part 2

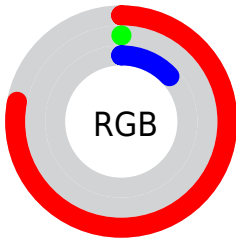
Format	Color
RYB	199, 0, 32
Decimal	13041696
CIELab	41.61, 66.92, 42.67
CIElCh	42, 79.364, 32.526
Yxy	12.2464, 0.6180, 0.3178
Android (android.graphics.Color)	4291231776 (0xFFC70020)
YUV	63.1490, -15.3565, 119.1413
Hunter-Lab	34.9949, 60.2312, 20.3049

Details

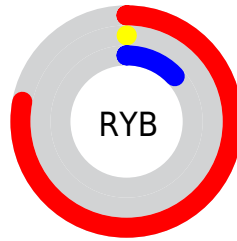
The Yxy color **12.2464, 0.6180, 0.3178** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **43.6400, 0.2391, 0.3808**, and the grayscale version is **5.0062, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.1507, 0.5440, 0.3345**, and **5.1509, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.2467, 0.6180, 0.3178**, and if you desaturate by 10%, it is **12.8591, 0.5899, 0.3115**.

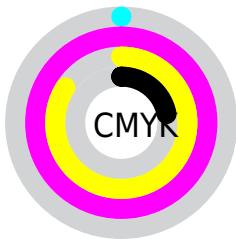
Distribution



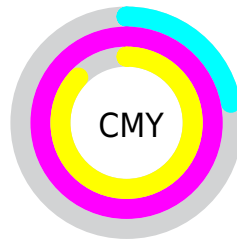
- Red (78%)
- Green (0%)
- Blue (13%)



- Red (78%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (22%)





- Cyan (22%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.2464, 0.6180, 0.3178 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 12.2464, 0.6180, 0.3178 by changing the saturation by 10% instead.


 12.2464, 0.6180,
0.3178


 12.2464, 0.6180,
0.3178


206.0298, 0.4408,
0.3435

 6.9117, 0.6644,
0.2998


 29.9431, 0.5500,
0.3348


 3.4069, 0.7283,
0.2717

 43.0739, 0.5251,
0.3387


 1.3477, 0.7838,
0.2162

 59.5722, 0.5046,
0.3410

 0.1777, 0.9257,
0.0743

 79.8223, 0.4875,
0.3423


 0.0000, 1.0000,
0.0000


 104.2088, 0.4730,
0.3431


 0.0000, 0.0000,
0.0000

 133.1159, 0.4607,


0.3435


 166.9281, 0.4500,
0.3436


 12.2464, 0.6180,
0.3178


 12.2464, 0.6180,
0.3178


 12.2467, 0.6180,
0.3178

 12.8591, 0.5899,
0.3115

 14.0341, 0.5525,
0.3068

 15.9555, 0.5101,
0.3050

 18.7212, 0.4678,
0.3058

 22.4143, 0.4293,
0.3085

■ 27.1078, 0.3960,
0.3123

■ 32.8675, 0.3684,
0.3165

■ 39.7535, 0.3458,
0.3209

■ 47.8215, 0.3275,
0.3251

Harmonies

Analogous

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



12.2464, 0.5246, 0.2404



12.2464, 0.6180, 0.3178



12.2464, 0.5877, 0.4092

Triad

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



12.2464, 0.6180, 0.3178



12.2464, 0.2153, 0.6160



12.2464, 0.1191, 0.1201

Complementary

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



12.2464, 0.6180, 0.3178



43.6400, 0.2391, 0.3808

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.



12.2464, 0.0839, 0.1424



12.2464, 0.6180, 0.3178



12.2464, 0.1195, 0.3988

Square

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



12.2464, 0.6180, 0.3178



12.2464, 0.3444, 0.6380



12.2464, 0.0814, 0.2197



12.2464, 0.2003, 0.1310

Rectangle

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



12.2464, 0.6180, 0.3178



12.2464, 0.5178, 0.4822



12.2464, 0.0814, 0.2197



12.2464, 0.1032, 0.1234

Sweetspot

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



12.2472, 0.6180, 0.3178



57.0525, 0.3695, 0.3163



12.2137, 0.2789, 0.1310



11.2458, 0.3808, 0.3145



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.



12.2472, 0.6180, 0.3178



21.4199, 0.6206, 0.3193



16.0796, 0.5886, 0.3708



10.6643, 0.3265, 0.3253



7.8832, 0.6153, 0.3163



0.3823, 0.5629, 0.2875

Inverse Universe

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



12.2472, 0.6180, 0.3178



21.4199, 0.6206, 0.3193



20.8099, 0.1932, 0.2156



10.6643, 0.3265, 0.3253



7.8832, 0.6153, 0.3163



0.3823, 0.5629, 0.2875

Previews

White Background



This preview shows how the Yxy color 12.2464, 0.6180, 0.3178 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 12.2464, 0.6180, 0.3178

Background



This preview shows how black text looks on a background with the Yxy color 12.2464, 0.6180, 0.3178.



This preview shows how white text looks on a background with the Yxy color 12.2464, 0.6180, 0.3178.

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

12.2464, 0.6180, 0.3178

Protanopia

12.9348, 0.3958, 0.4328

Deuteranopia

12.7096, 0.4677, 0.4616



Tritanopia

12.4384, 0.6335, 0.3352

Trichromacy



Original Color

12.2464, 0.6180, 0.3178

Protanomaly

9.6959, 0.5056, 0.3596

Deuteranomaly

10.0385, 0.5603, 0.3790

Tritanomaly

12.2717, 0.6306, 0.3297

Monochromacy



Original Color

12.2464, 0.6180, 0.3178

Achromatopsia

4.9707, 0.3127, 0.3290

Achromatomaly

5.2103, 0.4714, 0.3047

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2464, 0.6180, 0.3178 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, 32)` looks like.

```
.text, #text, p{  
    color:rgb(199, 0, 32)  
}
```

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, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 0, 32) }
```

Border

The CSS property to change the border of an element to Yxy 12.2464, 0.6180, 0.3178 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, 32) }
```

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

```
.border{ border-color:rgb(199, 0, 32) }
```

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, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(199, 0, 32)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.2464, 0.6180, 0.3178 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, 32) }
```

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

```
.background{ background-color: rgb(199, 0,  
32) }
```

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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