

Converting Colors

$Y_{xy}(12.9151, 0.6243, 0.3213)$

Have a look what the booklet for
Yxy(12.9151, 0.6243, 0.3213)
contains.

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Color

Yxy(12.9165, 0.6240, 0.3211)

Conversions

Conversions Part 1

Format	Color
Hex	CC001B
RGB	204, 0, 27
RGB Percent	80%, 0%, 11%
CMY	0.2000, 1.0000, 0.8940
CMYK	0.00, 1.00, 0.87, 0.20
HSL	352°, 100%, 40%
HSV	352°, 100%, 80%
XYZ	25.1009, 12.9165, 2.2084
YIQ	64.0740, 112.9170, 51.6450

Conversions

Conversions Part 2

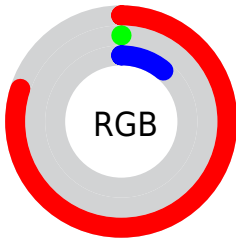
Format	Color
RYB	204, 0, 27
Decimal	13369371
CIELab	42.64, 68.04, 46.56
CIELCh	43, 82.446, 34.380
Yxy	12.9165, 0.6240, 0.3211
Android (android.graphics.Color)	4291559451 (0xFFCC001B)
YUV	64.0740, -18.2775, 122.7151
Hunter-Lab	35.9395, 61.7738, 21.5144

Details

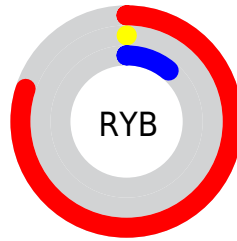
The Yxy color **12.9165, 0.6240, 0.3211** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **46.3616, 0.2365, 0.3713**, and the grayscale version is **5.1549, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.2380, 0.5487, 0.3391**, and **5.5754, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.9172, 0.6240, 0.3211**, and if you desaturate by 10%, it is **13.5401, 0.5976, 0.3157**.

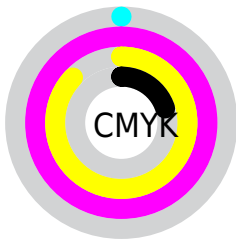
Distribution



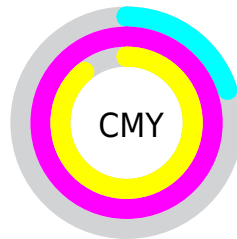
- Red (80%)
- Green (0%)
- Blue (11%)



- Red (80%)
- Yellow (0%)
- Blue (11%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)
- Black (20%)





- Cyan (20%)
- Magenta (100%)
- Yellow (89%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9165, 0.6240, 0.3211 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 12.9165, 0.6240, 0.3211 by changing the saturation by 10% instead.


 12.9165, 0.6240,
0.3211


 12.9165, 0.6240,
0.3211


210.3818, 0.4462,
0.3468


 7.3711, 0.6691,
0.3029


 31.1537, 0.5571,
0.3386


 3.6952, 0.7265,
0.2735

 44.6142, 0.5322,
0.3424


 1.5046, 0.7801,
0.2199

 61.4820, 0.5115,
0.3447

 0.2920, 0.8948,
0.1052

 82.1412, 0.4941,
0.3460

 0.0000, 1.0000,
0.0000


 106.9765, 0.4793,
0.3467


 0.0000, 0.0000,
0.0000


 136.3721, 0.4667,


0.3470

 170.7124, 0.4558,
0.3470

 12.9165, 0.6240,
0.3211


 12.9165, 0.6240,
0.3211


 12.9172, 0.6240,
0.3211

 13.5401, 0.5976,
0.3157

 14.7629, 0.5606,
0.3115

 16.7785, 0.5174,
0.3096

 19.6919, 0.4738,
0.3101

 23.5919, 0.4337,
0.3122

■ 28.5569, 0.3992,
0.3152

■ 34.6570, 0.3704,
0.3187

■ 41.9566, 0.3469,
0.3223

■ 50.5153, 0.3280,
0.3258

Harmonies

Analogous

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



12.9165, 0.5383, 0.2433



12.9165, 0.6240, 0.3211



12.9165, 0.5854, 0.4146

Triad

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



12.9165, 0.6240, 0.3211



12.9165, 0.2051, 0.6136



12.9165, 0.1202, 0.1175

Complementary

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



12.9165, 0.6240, 0.3211



46.3616, 0.2365, 0.3713

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.



12.9165, 0.0826, 0.1371



12.9165, 0.6240, 0.3211



12.9165, 0.1124, 0.3850

Square

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



12.9165, 0.6240, 0.3211



12.9165, 0.3339, 0.6470



12.9165, 0.0779, 0.2100



12.9165, 0.2056, 0.1303

Rectangle

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



12.9165, 0.6240, 0.3211



12.9165, 0.5109, 0.4891



12.9165, 0.0779, 0.2100



12.9165, 0.1034, 0.1200

Sweetspot

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



12.9173, 0.6240, 0.3211



56.9583, 0.3714, 0.3186



13.6841, 0.2872, 0.1356



11.2242, 0.3831, 0.3171



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.



12.9173, 0.6240, 0.3211



21.3742, 0.6260, 0.3222



17.8437, 0.5800, 0.3776



11.2375, 0.3270, 0.3260



8.1377, 0.6215, 0.3198



0.4279, 0.5775, 0.2955

Inverse Universe

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



12.9173, 0.6240, 0.3211



21.3742, 0.6260, 0.3222



20.1144, 0.1898, 0.2034



11.2375, 0.3270, 0.3260



8.1377, 0.6215, 0.3198



0.4279, 0.5775, 0.2955

Previews

White Background



This preview shows how the Yxy color 12.9165, 0.6240, 0.3211 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 12.9165, 0.6240, 0.3211 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 12.9165, 0.6240, 0.3211

Background



This preview shows how black text looks on a background with the Yxy color 12.9165, 0.6240, 0.3211.



This preview shows how white text looks on a background with the Yxy color 12.9165, 0.6240, 0.3211.

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

12.9165, 0.6240, 0.3211

Protanopia

13.4752, 0.4054, 0.4448

Deuteranopia

13.4812, 0.4690, 0.4658



Tritanopia

13.1623, 0.6333, 0.3353

Trichromacy



Original Color

12.9165, 0.6240, 0.3211

Protanomaly

10.2460, 0.5173, 0.3694

Deuteranomaly

10.6353, 0.5635, 0.3821

Tritanomaly

12.9814, 0.6317, 0.3305

Monochromacy



Original Color

12.9165, 0.6240, 0.3211

Achromatopsia

5.1269, 0.3127, 0.3290

Achromatomaly

5.4697, 0.4788, 0.3095

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9165, 0.6240, 0.3211 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(204, 0, 27)` looks like.

```
.text, #text, p{  
    color:rgb(204, 0, 27)  
}
```

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(204, 0, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 0, 27) }
```

Border

The CSS property to change the border of an element to Yxy 12.9165, 0.6240, 0.3211 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(204, 0, 27) }
```

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

```
.border{ border-color:rgb(204, 0, 27) }
```

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

Here you see how a box with a 4 pixel rgb(204, 0, 27) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 0, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 0, 27);  
box-shadow:4px 4px 4px 4px rgb(204, 0, 27)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.9165, 0.6240, 0.3211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 0, 27) }
```

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

```
.background{ background-color: rgb(204, 0,  
27) }
```

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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