

Converting Colors

$Y_{xy}(12.6887, 0.6212, 0.3204)$

Have a look what the booklet for
Yxy(12.6887, 0.6212, 0.3204)
contains.

Yxy(12.6887, 0.6212, 0.3204)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.6887, 0.6212, 0.3204)

Conversions

Conversions Part 1

Format	Color
Hex	CA021D
RGB	202, 2, 29
RGB Percent	79%, 1%, 11%
CMY	0.2078, 0.9921, 0.8864
CMYK	0.00, 0.99, 0.86, 0.21
HSL	352°, 98%, 40%
HSV	352°, 99%, 79%
XYZ	24.6012, 12.6887, 2.3128
YIQ	64.8780, 110.5330, 50.7970

Conversions

Conversions Part 2

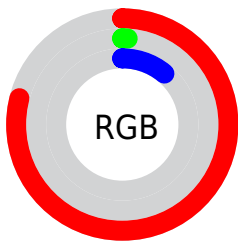
Format	Color
R_{YB}	202, 2, 29
Decimal	13238813
CIE _{Lab}	42.29, 67.39, 45.11
CIE _{LCh}	42, 81.100, 33.797
Yxy	12.6887, 0.6212, 0.3204
Android (android.graphics.Color)	4291428893 (0xFFCA021D)
YUV	64.8780, -17.6879, 120.2560
Hunter-Lab	35.6212, 60.9409, 21.0853

Details

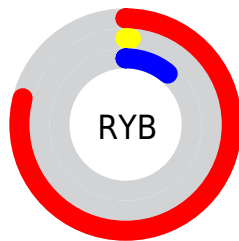
The Yxy color **12.6887, 0.6212, 0.3204** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **45.3533, 0.2367, 0.3716**, and the grayscale version is **5.2829, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.2650, 0.5465, 0.3376**, and **5.4033, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.6372, 0.6235, 0.3208**, and if you desaturate by 10%, it is **13.3402, 0.5936, 0.3148**.

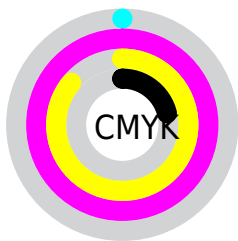
Distribution



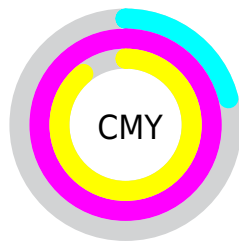
- Red (79%)
- Green (1%)
- Blue (11%)



- Red (79%)
- Yellow (1%)
- Blue (11%)



- Cyan (0%)
- Magenta (99%)
- Yellow (86%)
- Black (21%)




- Cyan (21%)
- Magenta (99%)
- Yellow (89%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.6887, 0.6212, 0.3204 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 12.6887, 0.6212, 0.3204 by changing the saturation by 10% instead.


 12.6887, 0.6212,
0.3204


 12.6887, 0.6212,
0.3204


208.9128, 0.4439,
0.3458


 7.2145, 0.6667,
0.3024


 30.7434, 0.5540,
0.3375


 3.5966, 0.7264,
0.2736

 44.0927, 0.5292,
0.3414

 1.4506, 0.7806,
0.2194

 60.8358, 0.5086,
0.3436

 0.2536, 0.9036,
0.0964

 81.3572, 0.4913,
0.3449


 0.0000, 1.0000,
0.0000


 106.0412, 0.4767,
0.3456

 0.0000, 0.0000,
0.0000

 135.2722, 0.4642,

0.3459

 169.4346, 0.4534,
0.3459

 12.6887, 0.6212,
0.3204


 12.6887, 0.6212,
0.3204


 12.6372, 0.6235,
0.3208

 13.3402, 0.5936,
0.3148

 14.6124, 0.5556,
0.3108

 16.6706, 0.5122,
0.3092

 19.6151, 0.4690,
0.3099

 23.5316, 0.4296,
0.3122

■ 28.4953, 0.3957,
0.3153

■ 34.5743, 0.3676,
0.3189

■ 41.8307, 0.3447,
0.3225

■ 50.3222, 0.3262,
0.3260

Harmonies

Analogous

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



12.6887, 0.5331, 0.2427



12.6887, 0.6212, 0.3204



12.6887, 0.5862, 0.4135

Triad

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



12.6887, 0.6212, 0.3204



12.6887, 0.2089, 0.6131



12.6887, 0.1203, 0.1188

Complementary

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



12.6887, 0.6212, 0.3204



45.3533, 0.2367, 0.3716

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.



12.6887, 0.0835, 0.1393



12.6887, 0.6212, 0.3204



12.6887, 0.1153, 0.3893

Square

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



12.6887, 0.6212, 0.3204



12.6887, 0.3375, 0.6429



12.6887, 0.0795, 0.2135



12.6887, 0.2043, 0.1310

Rectangle

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



12.6887, 0.6212, 0.3204



12.6887, 0.5130, 0.4870



12.6887, 0.0795, 0.2135



12.6887, 0.1038, 0.1215

Sweetspot

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



12.6895, 0.6212, 0.3204



56.9659, 0.3713, 0.3184



13.0797, 0.2834, 0.1338



11.2260, 0.3829, 0.3168



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.



12.6895, 0.6212, 0.3204



21.3776, 0.6256, 0.3220



17.1982, 0.5820, 0.3750



11.2379, 0.3269, 0.3259



8.1392, 0.6211, 0.3195



0.4281, 0.5765, 0.2950

Inverse Universe

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



12.6895, 0.6212, 0.3204



21.3776, 0.6256, 0.3220



20.7827, 0.1921, 0.2107



11.2379, 0.3269, 0.3259



8.1392, 0.6211, 0.3195



0.4281, 0.5765, 0.2950

Previews

White Background



This preview shows how the Yxy color 12.6887, 0.6212, 0.3204 looks on a white background.

Color Contrast Check

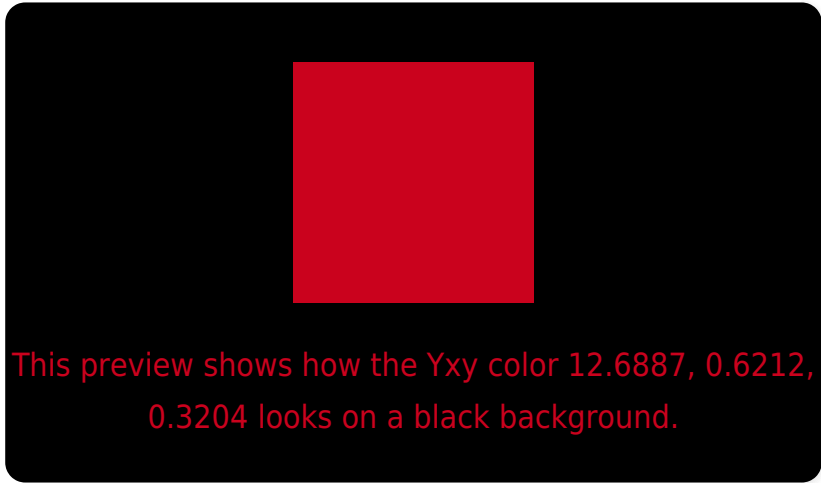
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.6887, 0.6212, 0.3204

Background



This preview shows how black text looks on a background with the Yxy color 12.6887, 0.6212, 0.3204.



This preview shows how white text looks on a background with the Yxy color 12.6887, 0.6212, 0.3204.

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

12.6887, 0.6212, 0.3204

Protanopia

13.2269, 0.4027, 0.4404

Deuteranopia

13.2165, 0.4694, 0.4655



Tritanopia

12.8501, 0.6337, 0.3350

Trichromacy



Original Color

12.6887, 0.6212, 0.3204

Protanomaly

10.0763, 0.5118, 0.3677

Deuteranomaly

10.5373, 0.5621, 0.3823

Tritanomaly

12.7046, 0.6311, 0.3302

Monochromacy



Original Color

12.6887, 0.6212, 0.3204

Achromatopsia

5.2861, 0.3127, 0.3290

Achromatomaly

5.5487, 0.4749, 0.3093

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.6887, 0.6212, 0.3204 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(202, 2, 29)` looks like.

```
.text, #text, p{  
    color:rgb(202, 2, 29)  
}
```

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(202, 2, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 2, 29) }
```

Border

The CSS property to change the border of an element to Yxy 12.6887, 0.6212, 0.3204 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(202, 2, 29) }
```

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

```
.border{ border-color:rgb(202, 2, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 2, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 2, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 2, 29);  
box-shadow:4px 4px 4px 4px rgb(202, 2, 29)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.6887, 0.6212, 0.3204 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 2, 29) }
```

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

```
.background{ background-color: rgb(202, 2,  
29) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor