

Converting Colors

$Y_{xy}(12.8831, 0.6298, 0.3243)$

Have a look what the booklet for
Yxy(12.8831, 0.6298, 0.3243)
contains.

Yxy(12.8879, 0.6297, 0.3243)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.8879, 0.6297, 0.3243)

Conversions

Conversions Part 1

Format	Color
Hex	CC0014
RGB	204, 0, 20
RGB Percent	80%, 0%, 8%
CMY	0.2001, 0.9994, 0.9218
CMYK	0.00, 1.00, 0.90, 0.20
HSL	354°, 100%, 40%
HSV	354°, 100%, 80%
XYZ	25.0247, 12.8879, 1.8281
YIQ	63.2760, 115.1640, 49.4680

Conversions

Conversions Part 2

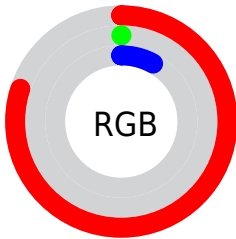
Format	Color
RYB	204, 0, 20
Decimal	13369364
CIELab	42.59, 67.90, 49.81
CIELCh	43, 84.216, 36.262
Yxy	12.8879, 0.6297, 0.3243
Android (android.graphics.Color)	4291559444 (0xFFCC0014)
YUV	63.2760, -21.3351, 123.4149
Hunter-Lab	35.8997, 61.6029, 22.1107

Details

The Yxy color **12.8879, 0.6297, 0.3243** 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 **46.6477, 0.2332, 0.3595**, and the grayscale version is **5.0450, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.1622, 0.5548, 0.3434**, and **5.4890, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.8850, 0.6298, 0.3243**, and if you desaturate by 10%, it is **13.4974, 0.6055, 0.3203**.

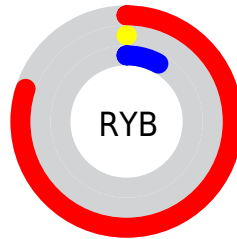
Distribution



Red (80%)

Green (0%)

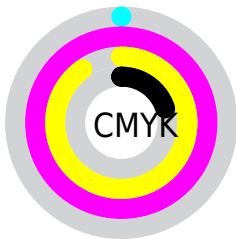
Blue (8%)



Red (80%)

Yellow (0%)

Blue (8%)

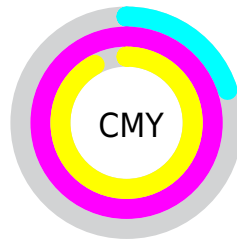


Cyan (0%)

Magenta (100%)

Yellow (90%)

Black (20%)



Cyan (20%)


Magenta (100%)


Yellow (92%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8879, 0.6297, 0.3243 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 12.8879, 0.6297, 0.3243 by changing the saturation by 10% instead.


 12.8879, 0.6297,
0.3243


 12.8879, 0.6297,
0.3243


210.1980, 0.4504,
0.3502


 7.3514, 0.6754,
0.3060


 31.1022, 0.5632,
0.3425


 3.6828, 0.7263,
0.2737

 44.5489, 0.5381,
0.3465

 1.4978, 0.7800,
0.2200

 61.4010, 0.5171,
0.3487

 0.2872, 0.8958,
0.1042

 82.0430, 0.4994,
0.3500


 0.0000, 1.0000,
0.0000


 106.8594, 0.4843,
0.3505


 0.0000, 0.0000,
0.0000

 136.2344, 0.4714,

0.3507


 170.5524, 0.4602,
0.3505

 12.8879, 0.6297,
0.3243


 12.8879, 0.6297,
0.3243


 12.8850, 0.6298,
0.3243

 13.4974, 0.6055,
0.3203

 14.7106, 0.5692,
0.3169

 16.7204, 0.5254,
0.3153

 19.6325, 0.4803,
0.3154

 23.5365, 0.4387,
0.3168

■ 28.5112, 0.4026,
0.3190

■ 34.6275, 0.3726,
0.3215

■ 41.9501, 0.3481,
0.3241

■ 50.5390, 0.3284,
0.3267

Harmonies

Analogous

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



12.8879, 0.5524, 0.2462



12.8879, 0.6297, 0.3243



12.8879, 0.5810, 0.4190

Triad

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



12.8879, 0.6297, 0.3243



12.8879, 0.1946, 0.6105



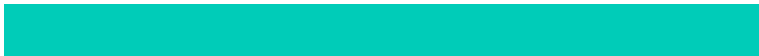
12.8879, 0.1214, 0.1147

Complementary

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



12.8879, 0.6297, 0.3243



46.6477, 0.2332, 0.3595

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.



12.8879, 0.0813, 0.1319



12.8879, 0.6297, 0.3243



12.8879, 0.1053, 0.3707

Square

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



12.8879, 0.6297, 0.3243



12.8879, 0.3231, 0.6571



12.8879, 0.0744, 0.2002



12.8879, 0.2112, 0.1295

Rectangle

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



12.8879, 0.6297, 0.3243



12.8879, 0.5034, 0.4966



12.8879, 0.0744, 0.2002



12.8879, 0.1037, 0.1165

Sweetspot

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



12.8887, 0.6297, 0.3243



56.8423, 0.3738, 0.3214



14.5033, 0.2957, 0.1403



11.1978, 0.3860, 0.3203



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.



12.8887, 0.6297, 0.3243



21.3292, 0.6315, 0.3252



18.8225, 0.5706, 0.3851



11.2311, 0.3275, 0.3268



8.1177, 0.6278, 0.3232



0.4250, 0.5925, 0.3038

Inverse Universe

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



12.8887, 0.6297, 0.3243



21.3292, 0.6315, 0.3252



18.3898, 0.1866, 0.1915



11.2311, 0.3275, 0.3268



8.1177, 0.6278, 0.3232



0.4250, 0.5925, 0.3038

Previews

White Background



This preview shows how the Yxy color 12.8879, 0.6297, 0.3243 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 12.8879, 0.6297, 0.3243

Background



This preview shows how black text looks on a background with the Yxy color 12.8879, 0.6297, 0.3243.



This preview shows how white text looks on a background with the Yxy color 12.8879, 0.6297, 0.3243.

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

12.8879, 0.6297, 0.3243

Protanopia

13.4853, 0.4153, 0.4564

Deuteranopia

13.4812, 0.4690, 0.4658



Tritanopia

13.1623, 0.6333, 0.3353

Trichromacy



Original Color

12.8879, 0.6297, 0.3243

Protanomaly

10.1984, 0.5281, 0.3785

Deuteranomaly

10.6287, 0.5651, 0.3834

Tritanomaly

12.9748, 0.6331, 0.3312

Monochromacy



Original Color

12.8879, 0.6297, 0.3243

Achromatopsia

4.9707, 0.3127, 0.3290

Achromatomaly

5.3002, 0.4890, 0.3157

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8879, 0.6297, 0.3243 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, 20)` looks like.

```
.text, #text, p{  
    color:rgb(204, 0, 20)  
}
```

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, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 0, 20) }
```

Border

The CSS property to change the border of an element to Yxy 12.8879, 0.6297, 0.3243 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, 20) }
```

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

```
.border{ border-color:rgb(204, 0, 20) }
```

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, 20) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 0, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 0, 20);  
box-shadow:4px 4px 4px 4px rgb(204, 0, 20)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.8879, 0.6297, 0.3243 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, 20) }
```

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

```
.background{ background-color: rgb(204, 0,  
20) }
```

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