

Converting Colors

$Y_{xy}(12.9420, 0.6191, 0.3184)$

Have a look what the booklet for
Yxy(12.9420, 0.6191, 0.3184)
contains.

Yxy(12.9417, 0.6191, 0.3184)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.9417, 0.6191, 0.3184)

Conversions

Conversions Part 1

Format	Color
Hex	CC0020
RGB	204, 0, 32
RGB Percent	80%, 0%, 13%
CMY	0.2000, 1.0000, 0.8744
CMYK	0.00, 1.00, 0.84, 0.20
HSL	351°, 100%, 40%
HSV	351°, 100%, 80%
XYZ	25.1640, 12.9417, 2.5404
YIQ	64.6440, 111.3120, 53.2000

Conversions

Conversions Part 2

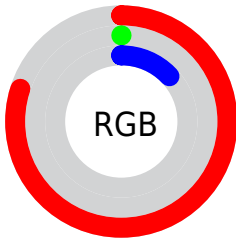
Format	Color
RYB	204, 0, 32
Decimal	13369376
CIELab	42.68, 68.15, 44.02
CIElCh	43, 81.126, 32.858
Yxy	12.9417, 0.6191, 0.3184
Android (android.graphics.Color)	4291559456 (0xFFCC0020)
YUV	64.6440, -16.0935, 122.2152
Hunter-Lab	35.9746, 61.9040, 20.9954

Details

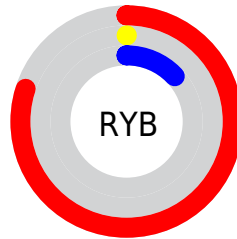
The Yxy color **12.9417, 0.6191, 0.3184** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **46.1656, 0.2388, 0.3796**, and the grayscale version is **5.2423, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.3071, 0.5432, 0.3353**, and **5.5754, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.9424, 0.6191, 0.3184**, and if you desaturate by 10%, it is **13.5764, 0.5914, 0.3122**.

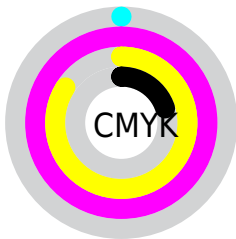
Distribution



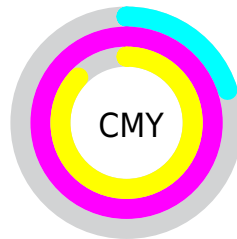
- Red (80%)
- Green (0%)
- Blue (13%)



- Red (80%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (20%)





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

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9417, 0.6191, 0.3184 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 12.9417, 0.6191, 0.3184 by changing the saturation by 10% instead.


 12.9417, 0.6191,
0.3184


 12.9417, 0.6191,
0.3184


210.5437, 0.4429,
0.3441


 7.3884, 0.6643,
0.3006


 31.1990, 0.5521,
0.3353

 3.7062, 0.7266,
0.2734


 44.6718, 0.5274,
0.3392


 1.5106, 0.7802,
0.2198

 61.5533, 0.5070,
0.3415

 0.2962, 0.8940,
0.1060

 82.2277, 0.4899,
0.3429

 0.0000, 1.0000,
0.0000

 107.0796, 0.4754,
0.3437

 0.0000, 0.0000,
0.0000


 136.4933, 0.4630,

0.3441


 170.8532, 0.4523,
0.3442


 12.9417, 0.6191,
0.3184

 12.9417, 0.6191,
0.3184


 12.9424, 0.6191,
0.3184

 13.5764, 0.5914,
0.3122

 14.8088, 0.5540,
0.3075

 16.8316, 0.5115,
0.3056

 19.7493, 0.4690,
0.3064

 23.6503, 0.4301,
0.3089

■ 28.6124, 0.3966,
0.3126

■ 34.7055, 0.3687,
0.3168

■ 41.9936, 0.3460,
0.3210

■ 50.5358, 0.3276,
0.3251

Harmonies

Analogous

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



12.9417, 0.5270, 0.2409



12.9417, 0.6191, 0.3184



12.9417, 0.5870, 0.4100

Triad

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



12.9417, 0.6191, 0.3184



12.9417, 0.2135, 0.6156



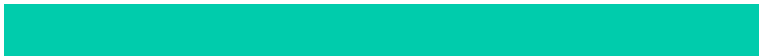
12.9417, 0.1193, 0.1197

Complementary

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



12.9417, 0.6191, 0.3184



46.1656, 0.2388, 0.3796

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.



12.9417, 0.0836, 0.1414



12.9417, 0.6191, 0.3184



12.9417, 0.1183, 0.3963

Square

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



12.9417, 0.6191, 0.3184



12.9417, 0.3422, 0.6390



12.9417, 0.0808, 0.2179



12.9417, 0.2013, 0.1308

Rectangle

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



12.9417, 0.6191, 0.3184



12.9417, 0.5166, 0.4834



12.9417, 0.0808, 0.2179



12.9417, 0.1033, 0.1228

Sweetspot

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



12.9425, 0.6191, 0.3184



57.0402, 0.3697, 0.3166



12.9065, 0.2788, 0.1310



11.2430, 0.3811, 0.3148



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.



12.9425, 0.6191, 0.3184



21.4134, 0.6214, 0.3197



16.9727, 0.5889, 0.3706



11.2419, 0.3266, 0.3254



8.1547, 0.6164, 0.3169



0.4300, 0.5676, 0.2900

Inverse Universe

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



12.9425, 0.6191, 0.3184



21.4134, 0.6214, 0.3197



21.9693, 0.1932, 0.2154



11.2419, 0.3266, 0.3254



8.1547, 0.6164, 0.3169



0.4300, 0.5676, 0.2900

Previews

White Background



This preview shows how the Yxy color 12.9417, 0.6191, 0.3184 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 12.9417, 0.6191, 0.3184 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 12.9417, 0.6191, 0.3184

Background



This preview shows how black text looks on a background with the Yxy color 12.9417, 0.6191, 0.3184.



This preview shows how white text looks on a background with the Yxy color 12.9417, 0.6191, 0.3184.

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

12.9417, 0.6191, 0.3184

Protanopia

13.5258, 0.3985, 0.4343

Deuteranopia

13.4812, 0.4690, 0.4658



Tritanopia

13.1291, 0.6338, 0.3349

Trichromacy



Original Color

12.9417, 0.6191, 0.3184

Protanomaly

10.2889, 0.5081, 0.3616

Deuteranomaly

10.6399, 0.5623, 0.3813

Tritanomaly

12.9624, 0.6311, 0.3297

Monochromacy



Original Color

12.9417, 0.6191, 0.3184

Achromatopsia

5.2861, 0.3127, 0.3290

Achromatomaly

5.5559, 0.4752, 0.3056

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9417, 0.6191, 0.3184 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, 32)` looks like.

```
.text, #text, p{  
  color:rgb(204, 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(204, 0, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 0, 32) }
```

Border

The CSS property to change the border of an element to Yxy 12.9417, 0.6191, 0.3184 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, 32) }
```

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

```
.border{ border-color:rgb(204, 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(204, 0, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(204, 0, 32)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.9417, 0.6191, 0.3184 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, 32) }
```

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

```
.background{ background-color: rgb(204, 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](#).

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