

Converting Colors

$Y_{xy}(12.8888, 0.6178, 0.3224)$

Have a look what the booklet for
Yxy(12.8888, 0.6178, 0.3224)
contains.

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Color

Yxy(12.8896, 0.6176, 0.3221)

Conversions

Conversions Part 1

Format	Color
Hex	CA0B1E
RGB	202, 11, 30
RGB Percent	79%, 4%, 12%
CMY	0.2078, 0.9571, 0.8824
CMYK	0.00, 0.95, 0.85, 0.21
HSL	354°, 90%, 42%
HSV	354°, 95%, 79%
XYZ	24.7147, 12.8896, 2.4130
YIQ	70.2750, 107.7370, 46.4010

Conversions

Conversions Part 2

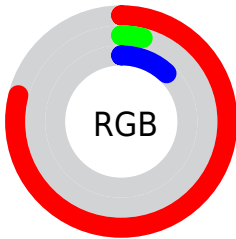
Format	Color
RYB	202, 11, 30
Decimal	13241118
CIELab	42.60, 66.57, 44.85
CIElCh	43, 80.265, 33.971
Yxy	12.8896, 0.6176, 0.3221
Android (android.graphics.Color)	4291431198 (0xFFCA0B1E)
YUV	70.2750, -19.8556, 115.5228
Hunter-Lab	35.9021, 60.0494, 21.1465

Details

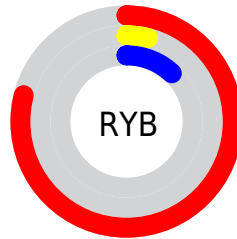
The Yxy color **12.8896, 0.6176, 0.3221** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **45.7370, 0.2336, 0.3585**, and the grayscale version is **6.1863, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.7612, 0.5431, 0.3393**, and **5.4033, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.6101, 0.6294, 0.3241**, and if you desaturate by 10%, it is **13.7607, 0.5866, 0.3179**.

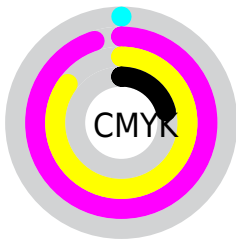
Distribution



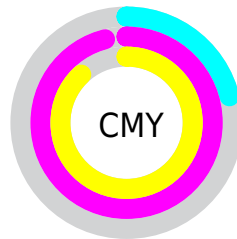
- Red (79%)
- Green (4%)
- Blue (12%)



- Red (79%)
- Yellow (4%)
- Blue (12%)



- Cyan (0%)
- Magenta (95%)
- Yellow (85%)
- Black (21%)





- Cyan (21%)
- Magenta (96%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8896, 0.6176, 0.3221 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 12.8896, 0.6176, 0.3221 by changing the saturation by 10% instead.


 12.8896, 0.6176,
0.3221


 12.8896, 0.6176,
0.3221


210.2089, 0.4425,
0.3460


 7.3526, 0.6625,
0.3046


 31.1053, 0.5511,
0.3385


 3.6836, 0.7229,
0.2771

 44.5528, 0.5266,
0.3421


 1.4982, 0.7764,
0.2236

 61.4058, 0.5062,
0.3442

 0.2874, 0.8931,
0.1069

 82.0489, 0.4892,
0.3454


 0.0000, 1.0000,
0.0000


 106.8663, 0.4748,
0.3460


 0.0000, 0.0000,
0.0000


 136.2425, 0.4624,


0.3462


 170.5619, 0.4518,
0.3462


 12.8896, 0.6176,
0.3221


 12.8896, 0.6176,
0.3221


 12.6101, 0.6294,
0.3241

 13.7607, 0.5866,
0.3179

 15.3534, 0.5455,
0.3154

 17.7824, 0.5004,
0.3147

 21.1415, 0.4569,
0.3157

 25.5120, 0.4182,
0.3176

■ 30.9665, 0.3855,
0.3201

■ 37.5706, 0.3587,
0.3227

■ 45.3850, 0.3370,
0.3254

■ 54.4660, 0.3195,
0.3279

Harmonies

Analogous

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



12.8896, 0.5309, 0.2445



12.8896, 0.6176, 0.3221



12.8896, 0.5827, 0.4144

Triad

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



12.8896, 0.6176, 0.3221



12.8896, 0.2104, 0.6070



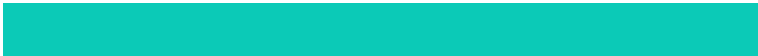
12.8896, 0.1224, 0.1207

Complementary

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



12.8896, 0.6176, 0.3221



45.7370, 0.2336, 0.3585

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.



12.8896, 0.0855, 0.1411



12.8896, 0.6176, 0.3221



12.8896, 0.1173, 0.3874

Square

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



12.8896, 0.6176, 0.3221



12.8896, 0.3376, 0.6386



12.8896, 0.0815, 0.2147



12.8896, 0.2063, 0.1329

Rectangle

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



12.8896, 0.6176, 0.3221



12.8896, 0.5119, 0.4881



12.8896, 0.0815, 0.2147



12.8896, 0.1059, 0.1234

Sweetspot

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



12.8904, 0.6176, 0.3221



59.1244, 0.3682, 0.3217



14.5589, 0.2971, 0.1428



11.6269, 0.3802, 0.3206



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.



12.8904, 0.6176, 0.3221



21.3321, 0.6311, 0.3250



19.4585, 0.5581, 0.3898



11.2316, 0.3275, 0.3267



8.1190, 0.6274, 0.3230



0.4252, 0.5914, 0.3031

Inverse Universe

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



12.8904, 0.6176, 0.3221



21.3321, 0.6311, 0.3250



19.1507, 0.1897, 0.1995



11.2316, 0.3275, 0.3267



8.1190, 0.6274, 0.3230



0.4252, 0.5914, 0.3031

Previews

White Background



This preview shows how the Yxy color 12.8896, 0.6176, 0.3221 looks on a white background.

Color Contrast Check

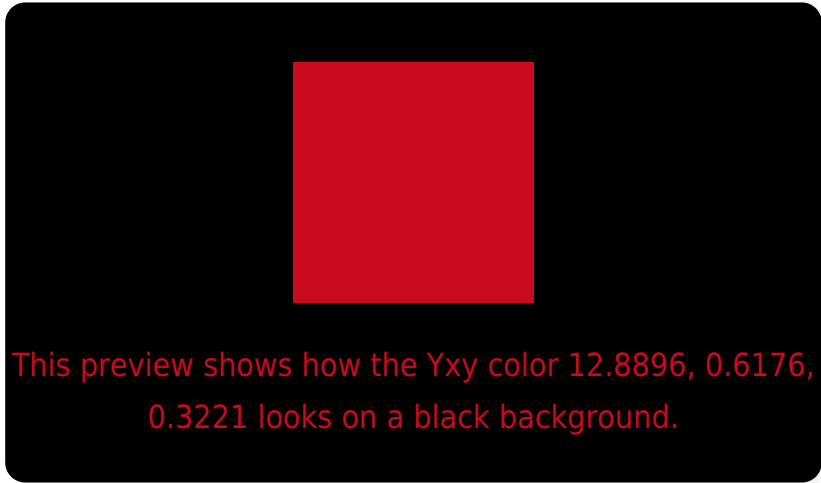
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8896, 0.6176, 0.3221

Background



This preview shows how black text looks on a background with the Yxy color 12.8896, 0.6176, 0.3221.



This preview shows how white text looks on a background with the Yxy color 12.8896, 0.6176, 0.3221.

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

12.8896, 0.6176, 0.3221

Protanopia

13.2352, 0.4015, 0.4386

Deuteranopia

13.2165, 0.4694, 0.4655



Tritanopia

12.9892, 0.6338, 0.3350

Trichromacy



Original Color

12.8896, 0.6176, 0.3221

Protanomaly

10.4432, 0.5057, 0.3713

Deuteranomaly

10.9885, 0.5551, 0.3881

Tritanomaly

12.9224, 0.6301, 0.3311

Monochromacy



Original Color

12.8896, 0.6176, 0.3221

Achromatopsia

6.1246, 0.3127, 0.3290

Achromatomaly

6.3240, 0.4646, 0.3173

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8896, 0.6176, 0.3221 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, 11, 30)` looks like.

```
.text, #text, p{  
    color:rgb(202, 11, 30)  
}
```

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, 11, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 11, 30) }
```

Border

The CSS property to change the border of an element to Yxy 12.8896, 0.6176, 0.3221 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, 11, 30) }
```

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

```
.border{ border-color:rgb(202, 11, 30) }
```

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

Here you see how a box with a 4 pixel rgb(202, 11, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 11, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 11, 30);  
box-shadow:4px 4px 4px 4px rgb(202, 11,  
30) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8896, 0.6176, 0.3221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 11, 30) }
```

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

```
.background{ background-color: rgb(202, 11,  
30) }
```

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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