

Converting Colors

$Y_{xy}(12.2677, 0.6110, 0.3139)$

Have a look what the booklet for
Yxy(12.2677, 0.6110, 0.3139)
contains.

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Color

Yxy(12.2821, 0.6109, 0.3139)

Conversions

Conversions Part 1

Format	Color
Hex	C70026
RGB	199, 0, 38
RGB Percent	78%, 0%, 15%
CMY	0.2196, 0.9998, 0.8511
CMYK	0.00, 1.00, 0.81, 0.22
HSL	349°, 100%, 39%
HSV	349°, 100%, 78%
XYZ	23.9029, 12.2821, 2.9424
YIQ	63.8330, 106.4060, 54.0060

Conversions

Conversions Part 2

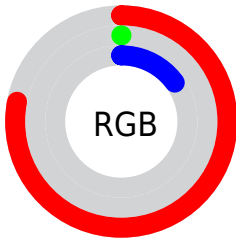
Format	Color
RYB	199, 0, 38
Decimal	13041702
CIELab	41.66, 67.06, 39.40
CIElCh	42, 77.781, 30.433
Yxy	12.2821, 0.6109, 0.3139
Android (android.graphics.Color)	4291231782 (0xFFC70026)
YUV	63.8330, -12.7357, 118.5415
Hunter-Lab	35.0458, 60.4154, 19.5542

Details

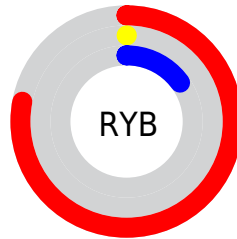
The Yxy color **12.2821, 0.6109, 0.3139** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **43.4230, 0.2420, 0.3912**, and the grayscale version is **5.1116, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.2407, 0.5371, 0.3297**, and **5.2342, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.2817, 0.6109, 0.3139**, and if you desaturate by 10%, it is **12.9076, 0.5815, 0.3067**.

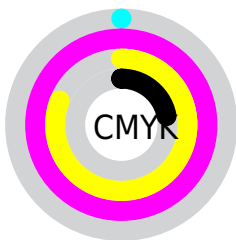
Distribution



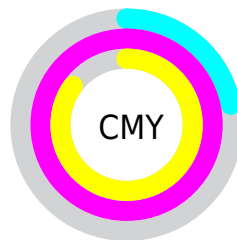
- Red (78%)
- Green (0%)
- Blue (15%)



- Red (78%)
- Yellow (0%)
- Blue (15%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (22%)





- Cyan (22%)
- Magenta (100%)
- Yellow (85%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.2821, 0.6109, 0.3139 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 12.2821, 0.6109, 0.3139 by changing the saturation by 10% instead.


 12.2821, 0.6109,
0.3139


 12.2821, 0.6109,
0.3139


206.2640, 0.4364,
0.3400

 6.9361, 0.6579,
0.2966


 30.0079, 0.5431,
0.3304


 3.4222, 0.7284,
0.2716

 43.1564, 0.5187,
0.3343


 1.3559, 0.7838,
0.2162

 59.6746, 0.4986,
0.3367

 0.1839, 0.9239,
0.0761

 79.9468, 0.4819,
0.3382


 0.0000, 1.0000,
0.0000


 104.3575, 0.4678,
0.3391

 0.0000, 0.0000,
0.0000

 133.2910, 0.4558,


0.3396


 167.1317, 0.4454,
0.3399


 12.2821, 0.6109,
0.3139


 12.2821, 0.6109,
0.3139


 12.2817, 0.6109,
0.3139

 12.9076, 0.5815,
0.3067

 14.0938, 0.5441,
0.3017

 16.0237, 0.5026,
0.3000

 18.7946, 0.4618,
0.3012

 22.4892, 0.4248,
0.3046

■ 27.1799, 0.3929,
0.3091

■ 32.9322, 0.3663,
0.3142

■ 39.8057, 0.3446,
0.3193

■ 47.8559, 0.3269,
0.3243

Harmonies

Analogous

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



12.2821, 0.5097, 0.2369



12.2821, 0.6109, 0.3139



12.2821, 0.5882, 0.4022

Triad

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



12.2821, 0.6109, 0.3139



12.2821, 0.2264, 0.6179



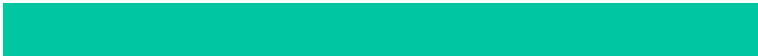
12.2821, 0.1179, 0.1231

Complementary

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



12.2821, 0.6109, 0.3139



43.4230, 0.2420, 0.3912

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.



12.2821, 0.0852, 0.1483



12.2821, 0.6109, 0.3139



12.2821, 0.1276, 0.4138

Square

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



12.2821, 0.6109, 0.3139



12.2821, 0.3554, 0.6276



12.2821, 0.0854, 0.2307



12.2821, 0.1947, 0.1317

Rectangle

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



12.2821, 0.6109, 0.3139



12.2821, 0.5253, 0.4747



12.2821, 0.0854, 0.2307



12.2821, 0.1030, 0.1272

Sweetspot

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



12.2829, 0.6109, 0.3139



57.1542, 0.3674, 0.3139



11.5168, 0.2705, 0.1264



11.2691, 0.3783, 0.3117



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.



12.2829, 0.6109, 0.3139



21.4785, 0.6139, 0.3155



15.3458, 0.5970, 0.3642



10.6694, 0.3260, 0.3246



7.9072, 0.6080, 0.3123



0.3846, 0.5511, 0.2810

Inverse Universe

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



12.2829, 0.6109, 0.3139



21.4785, 0.6139, 0.3155



22.6799, 0.1966, 0.2276



10.6694, 0.3260, 0.3246



7.9072, 0.6080, 0.3123



0.3846, 0.5511, 0.2810

Previews

White Background



This preview shows how the Yxy color 12.2821, 0.6109, 0.3139 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 12.2821, 0.6109, 0.3139 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 12.2821, 0.6109, 0.3139

Background



This preview shows how black text looks on a background with the Yxy color 12.2821, 0.6109, 0.3139.



This preview shows how white text looks on a background with the Yxy color 12.2821, 0.6109, 0.3139.

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

12.2821, 0.6109, 0.3139

Protanopia

12.9381, 0.3852, 0.4198

Deuteranopia

12.9357, 0.4576, 0.4526



Tritanopia

12.4384, 0.6335, 0.3352

Trichromacy



Original Color

12.2821, 0.6109, 0.3139

Protanomaly

9.6566, 0.4936, 0.3509

Deuteranomaly

10.1936, 0.5463, 0.3709

Tritanomaly

12.2768, 0.6295, 0.3290

Monochromacy



Original Color

12.2821, 0.6109, 0.3139

Achromatopsia

5.1269, 0.3127, 0.3290

Achromatomaly

5.3724, 0.4638, 0.3005

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2821, 0.6109, 0.3139 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(199, 0, 38)` looks like.

```
.text, #text, p{  
    color:rgb(199, 0, 38)  
}
```

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(199, 0, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 0, 38) }
```

Border

The CSS property to change the border of an element to Yxy 12.2821, 0.6109, 0.3139 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(199, 0, 38) }
```

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

```
.border{ border-color:rgb(199, 0, 38) }
```

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

Here you see how a box with a 4 pixel rgb(199, 0, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 0, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 0, 38);  
box-shadow:4px 4px 4px 4px rgb(199, 0, 38)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.2821, 0.6109, 0.3139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 0, 38) }
```

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

```
.background{ background-color: rgb(199, 0,  
38) }
```

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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