

Converting Colors

$Y_{xy}(12.4284, 0.6355, 0.3336)$

Have a look what the booklet for
Yxy(12.4284, 0.6355, 0.3336)
contains.

Yxy(12.4562, 0.6353, 0.3338)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.4562, 0.6353, 0.3338)

Conversions

Conversions Part 1

Format	Color
Hex	C70E00
RGB	199, 14, 0
RGB Percent	78%, 5%, 0%
CMY	0.2197, 0.9447, 1.0000
CMYK	0.00, 0.93, 1.00, 0.22
HSL	4°, 100%, 39%
HSV	4°, 100%, 78%
XYZ	23.7071, 12.4562, 1.1531
YIQ	67.7190, 114.7540, 34.8660

Conversions

Conversions Part 2

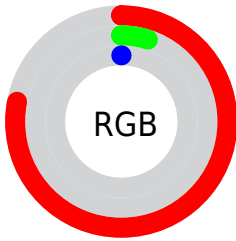
Format	Color
RYB	199, 15, 0
Decimal	13045248
CIELab	41.93, 65.03, 55.96
CIELCh	42, 85.796, 40.714
Yxy	12.4562, 0.6353, 0.3338
Android (android.graphics.Color)	4291235328 (0xFFC70E00)
YUV	67.7190, -33.3855, 115.1334
Hunter-Lab	35.2933, 58.1379, 22.7683

Details

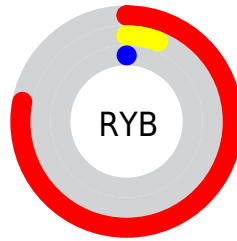
The Yxy color **12.4562, 0.6353, 0.3338** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **38.7671, 0.2185, 0.3066**, and the grayscale version is **5.7843, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.4874, 0.5655, 0.3552**, and **5.1509, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.4571, 0.6353, 0.3338**, and if you desaturate by 10%, it is **13.2558, 0.6144, 0.3364**.

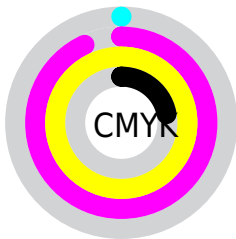
Distribution



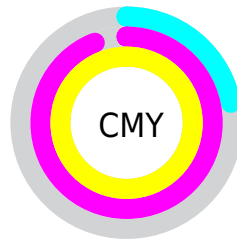
- Red (78%)
- Green (5%)
- Blue (0%)



- Red (78%)
- Yellow (6%)
- Blue (0%)



- Cyan (0%)
- Magenta (93%)
- Yellow (100%)
- Black (22%)





- Cyan (22%)
- Magenta (94%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.4562, 0.6353, 0.3338 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 12.4562, 0.6353, 0.3338 by changing the saturation by 10% instead.


 12.4562, 0.6353,
0.3338


 12.4562, 0.6353,
0.3338


 207.4025, 0.4559,
0.3584


 7.0552, 0.6836,
0.3164


 30.3233, 0.5706,
0.3530


 3.4966, 0.7219,
0.2781


 43.5582, 0.5455,
0.3569

 1.3962, 0.7764,
0.2236


 60.1731, 0.5243,
0.3589

 0.2139, 0.9111,
0.0889

 80.5525, 0.5063,
0.3598


 0.0000, 1.0000,
0.0000


 105.0807, 0.4909,
0.3599


 0.0000, 0.0000,
0.0000

 134.1422, 0.4776,

0.3596

 168.1213, 0.4660,
0.3591


 12.4562, 0.6353,
0.3338


 12.4562, 0.6353,
0.3338

 12.4571, 0.6353,
0.3338

 13.2558, 0.6144,
0.3364

 14.6671, 0.5803,
0.3389

 16.7903, 0.5370,
0.3400

 19.7028, 0.4910,
0.3397

 23.4718, 0.4476,
0.3386

■ 28.1577, 0.4096,
0.3368

■ 33.8149, 0.3775,
0.3348

■ 40.4940, 0.3513,
0.3328

■ 48.2419, 0.3300,
0.3308

Harmonies

Analogous

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



12.4562, 0.5802, 0.2551



12.4562, 0.6353, 0.3338



12.4562, 0.5675, 0.4325

Triad

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



12.4562, 0.6353, 0.3338



12.4562, 0.1732, 0.5905



12.4562, 0.1276, 0.1115

Complementary

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



12.4562, 0.6353, 0.3338



38.7671, 0.2185, 0.3066

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.



12.4562, 0.0815, 0.1230



12.4562, 0.6353, 0.3338



12.4562, 0.0929, 0.3362

Square

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



12.4562, 0.6353, 0.3338



12.4562, 0.2990, 0.6735



12.4562, 0.0696, 0.1811



12.4562, 0.2281, 0.1308

Rectangle

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



12.4562, 0.6353, 0.3338



12.4562, 0.4841, 0.5159



12.4562, 0.0696, 0.1811



12.4562, 0.1075, 0.1116

Sweetspot

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



12.4571, 0.6353, 0.3338



58.7446, 0.3788, 0.3349



15.6732, 0.3385, 0.1638



11.6279, 0.3919, 0.3358



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.



12.4571, 0.6353, 0.3338



21.6954, 0.6363, 0.3330



23.8963, 0.5219, 0.4238



10.7557, 0.3288, 0.3307



8.0604, 0.6341, 0.3347



0.4247, 0.6144, 0.3504

Inverse Universe

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



38.7671, 0.2185, 0.3066



67.7387, 0.2184, 0.3063



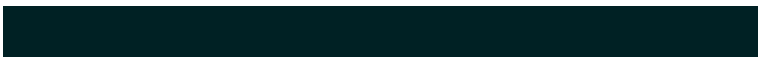
10.8146, 0.1710, 0.1354



11.9338, 0.2984, 0.3273



24.9865, 0.2186, 0.3069



1.2226, 0.2200, 0.3118

Previews

White Background



This preview shows how the Yxy color 12.4562, 0.6353, 0.3338 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 12.4562, 0.6353, 0.3338 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 12.4562, 0.6353, 0.3338

Background



This preview shows how black text looks on a background with the Yxy color 12.4562, 0.6353, 0.3338.



This preview shows how white text looks on a background with the Yxy color 12.4562, 0.6353, 0.3338.

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

12.4562, 0.6353, 0.3338

Protanopia

12.8927, 0.4253, 0.4706

Deuteranopia

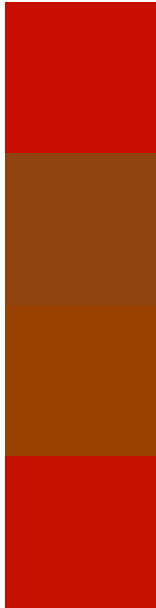
12.8778, 0.4684, 0.4663



Tritanopia

12.4384, 0.6335, 0.3352

Trichromacy



Original Color

12.4562, 0.6353, 0.3338

Protanomaly

10.2260, 0.5335, 0.3973

Deuteranomaly

10.6687, 0.5583, 0.3949

Tritanomaly

12.4067, 0.6339, 0.3348

Monochromacy



Original Color

12.4562, 0.6353, 0.3338

Achromatopsia

5.7805, 0.3127, 0.3290

Achromatomaly

6.0013, 0.4918, 0.3394

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4562, 0.6353, 0.3338 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, 14, 0)` looks like.

```
.text, #text, p{  
    color:rgb(199, 14, 0)  
}
```

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, 14, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 14, 0) }
```

Border

The CSS property to change the border of an element to Yxy 12.4562, 0.6353, 0.3338 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, 14, 0) }
```

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

```
.border{ border-color:rgb(199, 14, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 14, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 14, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 14, 0);  
box-shadow:4px 4px 4px 4px rgb(199, 14, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.4562, 0.6353, 0.3338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 14, 0) }
```

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

```
.background{ background-color: rgb(199, 14,  
0) }
```

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