

Converting Colors

$Y_{xy}(12.2098, 0.6170, 0.3483)$

Have a look what the booklet for
Yxy(12.2098, 0.6170, 0.3483)
contains.

Yxy(12.2699, 0.6167, 0.3485)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.2699, 0.6167, 0.3485)

Conversions

Conversions Part 1

Format	Color
Hex	BD2700
RGB	189, 39, 0
RGB Percent	74%, 15%, 0%
CMY	0.2588, 0.8470, 0.9998
CMYK	0.00, 0.79, 1.00, 0.26
HSL	12°, 100%, 37%
HSV	12°, 100%, 74%
XYZ	21.7126, 12.2699, 1.2252
YIQ	79.4040, 101.9190, 19.6710

Conversions

Conversions Part 2

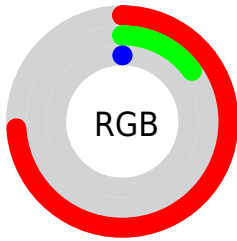
Format	Color
RYB	189, 49, 0
Decimal	12396288
CIELab	41.64, 57.20, 54.56
CIElCh	42, 79.049, 43.651
Yxy	12.2699, 0.6167, 0.3485
Android (android.graphics.Color)	4290586368 (0xFFBD2700)
YUV	79.4040, -39.1462, 96.1157
Hunter-Lab	35.0284, 49.3448, 22.4460

Details

The Yxy color **12.2699, 0.6167, 0.3485** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **25.5010, 0.2059, 0.2613**, and the grayscale version is **7.9646, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0632, 0.5548, 0.3635**, and **4.4356, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.2682, 0.6167, 0.3485**, and if you desaturate by 10%, it is **13.5052, 0.5906, 0.3557**.

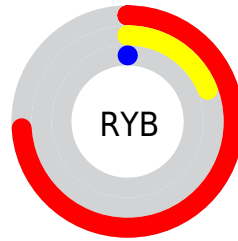
Distribution



Red (74%)

Green (15%)

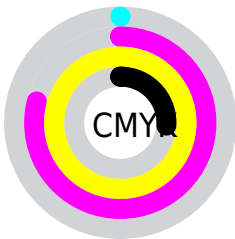
Blue (0%)



Red (74%)

Yellow (19%)

Blue (0%)

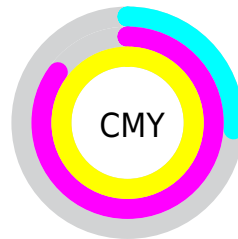


Cyan (0%)

Magenta (79%)

Yellow (100%)

Black (26%)



Cyan (26%)


Magenta (85%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2699, 0.6167, 0.3485 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 12.2699, 0.6167, 0.3485 by changing the saturation by 10% instead.


 12.2699, 0.6167,
0.3485


 12.2699, 0.6167,
0.3485


 206.1840, 0.4461,
0.3625


 6.9278, 0.6651,
0.3349


 29.9857, 0.5544,
0.3633


 3.4170, 0.7016,
0.2984

 43.1282, 0.5305,
0.3657


 1.3531, 0.7550,
0.2450

 59.6396, 0.5104,
0.3664

 0.1818, 0.9082,
0.0918

 79.9043, 0.4934,
0.3663


 0.0000, 1.0000,
0.0000


 104.3067, 0.4789,
0.3656


 0.0000, 0.0000,
0.0000


 133.2312, 0.4664,


0.3647


 167.0621, 0.4555,
0.3636


 12.2699, 0.6167,
0.3485


 12.2699, 0.6167,
0.3485


 12.2682, 0.6167,
0.3485

 13.5052, 0.5906,
0.3557

 15.2159, 0.5560,
0.3606

 17.4551, 0.5160,
0.3618

 20.2634, 0.4752,
0.3600

 23.6769, 0.4370,
0.3561

■ 27.7288, 0.4031,
0.3510

■ 32.4500, 0.3741,
0.3453

■ 37.8691, 0.3497,
0.3396

■ 44.0130, 0.3295,
0.3341

Harmonies

Analogous

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



12.2699, 0.5739, 0.2691



12.2699, 0.6167, 0.3485



12.2699, 0.5514, 0.4486

Triad

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



12.2699, 0.6167, 0.3485



12.2699, 0.1744, 0.5471



12.2699, 0.1432, 0.1212

Complementary

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



12.2699, 0.6167, 0.3485



25.5010, 0.2059, 0.2613

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.



12.2699, 0.0933, 0.1301



12.2699, 0.6167, 0.3485



12.2699, 0.0999, 0.3187

Square

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



12.2699, 0.6167, 0.3485



12.2699, 0.2943, 0.6515



12.2699, 0.0791, 0.1825



12.2699, 0.2469, 0.1432

Rectangle

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



12.2699, 0.6167, 0.3485



12.2699, 0.4720, 0.5280



12.2699, 0.0791, 0.1825



12.2699, 0.1217, 0.1206

Sweetspot

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



12.2707, 0.6167, 0.3485



57.6603, 0.3754, 0.3456



13.0614, 0.3791, 0.1862



11.6065, 0.3872, 0.3480



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.2707, 0.6167, 0.3485



21.6984, 0.6190, 0.3467



27.4075, 0.4845, 0.4535



9.8466, 0.3283, 0.3338



8.3447, 0.6147, 0.3501



0.4221, 0.5690, 0.3864

Inverse Universe

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



25.5010, 0.2059, 0.2613



45.3095, 0.2056, 0.2601



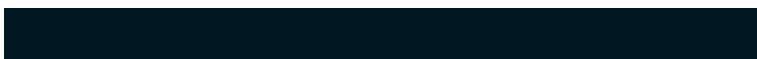
6.5745, 0.1610, 0.0995



10.4664, 0.2985, 0.3242



17.2669, 0.2062, 0.2622



0.7622, 0.2111, 0.2799

Previews

White Background



This preview shows how the Yxy color 12.2699, 0.6167, 0.3485 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 12.2699, 0.6167, 0.3485 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

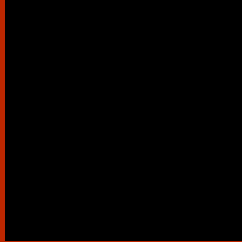
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.2699, 0.6167, 0.3485

Background



This preview shows how black text looks on a background with the Yxy color 12.2699, 0.6167, 0.3485.



This preview shows how white text looks on a background with the Yxy color 12.2699, 0.6167, 0.3485.

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

12.2699, 0.6167, 0.3485

Protanopia

12.6170, 0.4280, 0.4744

Deuteranopia

12.5444, 0.4673, 0.4671



Tritanopia

12.2693, 0.5918, 0.3306

Trichromacy



Original Color

12.2699, 0.6167, 0.3485

Protanomaly

11.0559, 0.5138, 0.4171

Deuteranomaly

11.3281, 0.5362, 0.4124

Tritanomaly

12.2669, 0.6043, 0.3395

Monochromacy



Original Color

12.2699, 0.6167, 0.3485

Achromatopsia

7.8187, 0.3127, 0.3290

Achromatomaly

7.8190, 0.4588, 0.3581

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2699, 0.6167, 0.3485 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(189, 39, 0)` looks like.

```
.text, #text, p{  
    color:rgb(189, 39, 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(189, 39, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 39, 0) }
```

Border

The CSS property to change the border of an element to Yxy 12.2699, 0.6167, 0.3485 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(189, 39, 0) }
```

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

```
.border{ border-color:rgb(189, 39, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 39, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 39, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 39, 0);  
box-shadow:4px 4px 4px 4px rgb(189, 39, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.2699, 0.6167, 0.3485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 39, 0) }
```

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

```
.background{ background-color: rgb(189, 39,  
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