

Converting Colors

$Y_{xy}(72.2279, 0.3060, 0.5952)$

Have a look what the booklet for
Yxy(72.2279, 0.3060, 0.5952)
contains.

Yxy(72.2238, 0.3060, 0.5953)	3
Conversions	4
Details	6
Harmonies	12
Previews	22
Color Blindness Simulation	25
CSS Examples	28

Color

Yxy(72.2238, 0.3060, 0.5953)

Conversions

Conversions Part 1

Format	Color
Hex	33FF00
RGB	51, 255, 0
RGB Percent	20%, 100%, 0%
CMY	0.7999, 0.0000, 1.0000
CMYK	0.80, 0.00, 1.00, 0.00
HSL	108°, 100%, 50%
HSV	108°, 100%, 100%
XYZ	37.1250, 72.2238, 11.9746
YIQ	164.9340, -39.7290, -122.5530

Conversions

Conversions Part 2

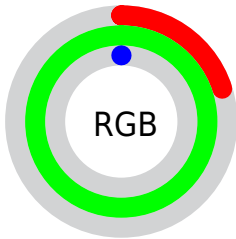
Format	Color
RYB	0, 255, 204
Decimal	3407616
CIELab	88.08, -83.11, 83.62
CIELCh	88, 117.897, 134.825
Yxy	72.2238, 0.3060, 0.5953
Android (android.graphics.Color)	4281597696 (0xFF33FF00)
YUV	164.9340, -81.3125, -99.9201
Hunter-Lab	84.9846, -70.7465, 51.1350

Details

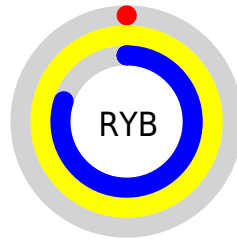
The Yxy color **72.2238, 0.3060, 0.5953** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **20.0531, 0.2697, 0.1260**, and the grayscale version is **38.0102, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.3610, 0.3223, 0.5247**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.2246, 0.3060, 0.5952**, and if you desaturate by 10%, it is **72.9482, 0.3098, 0.5859**.

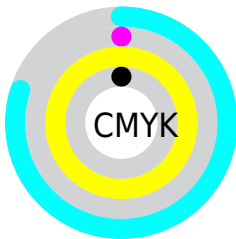
Distribution



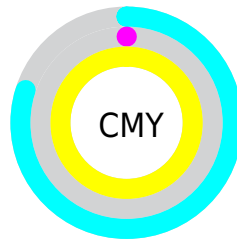
- Red (20%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (80%)



- Cyan (80%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)





- Cyan (80%)
- Magenta (0%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 72.2238, 0.3060, 0.5953 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 72.2238, 0.3060, 0.5953 by changing the saturation by 10% instead.


 72.2238, 0.3060,
0.5953


 72.2238, 0.3060,
0.5953


468.3202, 0.3224,
0.4643

 53.3415, 0.2983,
0.6244

 122.3747, 0.3149,
0.5498


 38.0755, 0.2867,
0.6590


 154.4120, 0.3174,
0.5320


 26.0413, 0.2691,
0.6995


 191.6032, 0.3191,
0.5167

 16.8545, 0.2451,
0.7549

 234.3326, 0.3203,
0.5033

 10.1308, 0.2020,
0.7980

 282.9846, 0.3212,
0.4917

 5.4858, 0.1447,
0.8553


 337.9436, 0.3218,

 2.5350, 0.0000,

0.4814


1.0000


399.5940, 0.3221,
0.4724


 0.8941, 0.0000,
1.0000


 0.0000, 0.0000,
0.0000


 72.2238, 0.3060,
0.5953


 72.2238, 0.3060,
0.5953

 72.2246, 0.3060,
0.5952

 72.9482, 0.3098,
0.5859

 74.0253, 0.3134,
0.5692

 75.5080, 0.3162,
0.5452

 77.4348, 0.3180,
0.5155

■ 79.8391, 0.3188,
0.4825

■ 82.7512, 0.3187,
0.4483

■ 86.1986, 0.3179,
0.4148

■ 90.2068, 0.3164,
0.3834

■ 94.7998, 0.3147,
0.3547

Harmonies

Analogous

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



72.2238, 0.4228, 0.5482



72.2238, 0.3060, 0.5953



72.2238, 0.1963, 0.4967

Triad

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



72.2238, 0.3060, 0.5953



72.2238, 0.1177, 0.1534



72.2238, 0.5354, 0.2856

Complementary

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



72.2238, 0.3060, 0.5953



20.0531, 0.2697, 0.1260

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.



72.2238, 0.4049, 0.2162



72.2238, 0.3060, 0.5953



72.2238, 0.1671, 0.1446

Square

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



72.2238, 0.3060, 0.5953



72.2238, 0.1040, 0.2031



72.2238, 0.2632, 0.1663



72.2238, 0.5760, 0.3629

Rectangle

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



72.2238, 0.3060, 0.5953



72.2238, 0.1436, 0.3757



72.2238, 0.2632, 0.1663



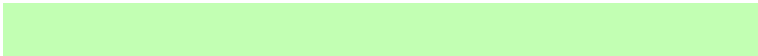
72.2238, 0.4989, 0.2612

Sweetspot

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



72.2246, 0.3060, 0.5952



86.1986, 0.3179, 0.4148



62.4528, 0.4646, 0.4693



18.1246, 0.3183, 0.4288



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.



72.2246, 0.3060, 0.5952



71.9911, 0.2907, 0.5666



20.3431, 0.3146, 0.3534



37.7880, 0.3068, 0.5946



3.7224, 0.3137, 0.5892

Inverse Universe

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



20.0531, 0.2697, 0.1260



24.6685, 0.4105, 0.2035



18.1060, 0.3106, 0.3054



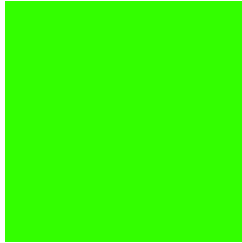
10.5427, 0.2706, 0.1264



1.0709, 0.2766, 0.1298

Previews

White Background



This preview shows how the Yxy color 72.2238, 0.3060, 0.5953 looks on a white background.

Color Contrast Check

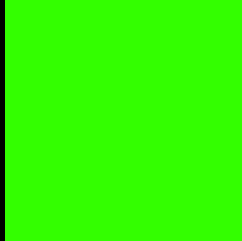
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 72.2238, 0.3060, 0.5953 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

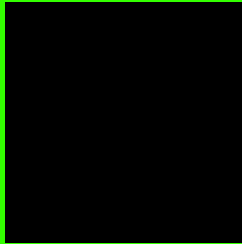
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 72.2238, 0.3060, 0.5953

Background



This preview shows how black text looks on a background with the Yxy color 72.2238, 0.3060, 0.5953.



This preview shows how white text looks on a background with the Yxy color 72.2238, 0.3060, 0.5953.

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

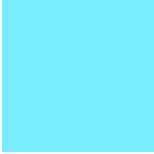
72.2238, 0.3060, 0.5953

Protanopia

70.4372, 0.4412, 0.4879

Deuteranopia

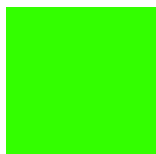
70.4536, 0.3935, 0.3958



Tritanopia

71.3485, 0.2408, 0.3064

Trichromacy



Original Color

72.2238, 0.3060, 0.5953



Protanomaly

66.9433, 0.3766, 0.5392



Deuteranomaly

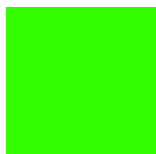
66.1187, 0.3597, 0.4872



Tritanomaly

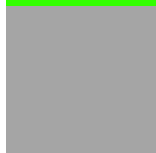
69.1966, 0.2749, 0.4384

Monochromacy



Original Color

72.2238, 0.3060, 0.5953



Achromatopsia

37.6262, 0.3127, 0.3290



Achromatomaly

45.6932, 0.3192, 0.4696

CSS Examples

Text

The CSS property to change the color of the text to Yxy 72.2238, 0.3060, 0.5953 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(51, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 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(51, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 0) }
```

Border

The CSS property to change the border of an element to Yxy 72.2238, 0.3060, 0.5953 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(51, 255, 0) }
```

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

```
.border{ border-color:rgb(51, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(51, 255, 0)  
}
```

Background

The CSS property to change the background color of an element to Yxy 72.2238, 0.3060, 0.5953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 0) }
```

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

```
.background{ background-color: rgb(51, 255,  
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