

Converting Colors

$Y_{xy}(63.8200, 0.2929, 0.5744)$

Have a look what the booklet for
Yxy(63.8200, 0.2929, 0.5744)
contains.

Yxy(63.8200, 0.2929, 0.5744)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(63.8200, 0.2929, 0.5744)

Conversions

Conversions Part 1

Format	Color
Hex	00F23B
RGB	0, 242, 59
RGB Percent	0%, 95%, 23%
CMY	0.9994, 0.0510, 0.7685
CMYK	1.00, 0.00, 0.76, 0.05
HSL	135°, 100%, 47%
HSV	135°, 100%, 95%
XYZ	32.5433, 63.8200, 14.7439
YIQ	148.7800, -85.4890, -108.2170

Conversions

Conversions Part 2

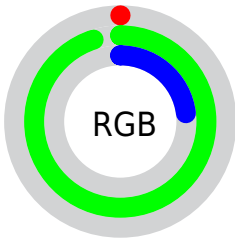
Format	Color
RYB	0, 195, 242
Decimal	62011
CIELab	83.87, -80.69, 69.49
CIELCh	84, 106.488, 139.265
Yxy	63.8200, 0.2929, 0.5744
Android (android.graphics.Color)	4278252091 (0xFF00F23B)
YUV	148.7800, -44.2615, -130.4801
Hunter-Lab	79.8874, -67.0884, 44.9787

Details

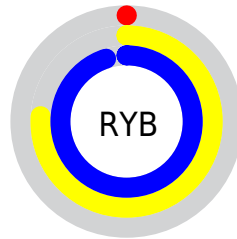
The Yxy color **63.8200, 0.2929, 0.5744** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **22.3047, 0.3954, 0.1952**, and the grayscale version is **30.1954, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4728, 0.3032, 0.5030**, and **34.2810, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **63.8205, 0.2929, 0.5745**, and if you desaturate by 10%, it is **64.2447, 0.2901, 0.5565**.

Distribution



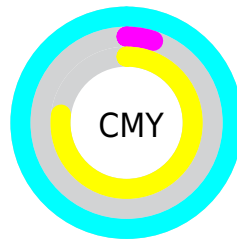
- Red (0%)
- Green (95%)
- Blue (23%)



- Red (0%)
- Yellow (76%)
- Blue (95%)



- Cyan (100%)
- Magenta (0%)
- Yellow (76%)
- Black (5%)




- Cyan (100%)
- Magenta (5%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8200, 0.2929, 0.5744 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 63.8200, 0.2929, 0.5744 by changing the saturation by 10% instead.


 63.8200, 0.2929,
0.5744


 63.8200, 0.2929,
0.5744


438.5393, 0.3124,
0.4488

 46.5049, 0.2851,
0.6045

 110.3517, 0.3022,
0.5292


 32.6444, 0.2736,
0.6415


 140.3370, 0.3051,
0.5120


 21.8542, 0.2562,
0.6871


 175.3146, 0.3072,
0.4974

 13.7498, 0.2303,
0.7463

 215.6688, 0.3088,
0.4849

 7.9469, 0.1881,
0.8119

 261.7839, 0.3101,
0.4740

 4.0610, 0.1178,
0.8822

314.0445, 0.3110,

 1.7077, 0.0000,

0.4645


1.0000


372.8348, 0.3118,
0.4562


 0.4287, 0.0000,
1.0000


 0.0000, 0.0000,
0.0000


 63.8200, 0.2929,
0.5744


 63.8200, 0.2929,
0.5744

 63.8205, 0.2929,
0.5745

 64.2447, 0.2901,
0.5565

 64.9854, 0.2882,
0.5337

 66.1261, 0.2878,
0.5074

 67.7172, 0.2889,
0.4788

■ 69.8016, 0.2913,
0.4498

■ 72.4170, 0.2947,
0.4214

■ 75.5972, 0.2988,
0.3947

■ 79.3734, 0.3033,
0.3703

■ 83.7742, 0.3080,
0.3483

Harmonies

Analogous

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



63.8200, 0.4057, 0.5510



63.8200, 0.2929, 0.5744



63.8200, 0.1903, 0.4616

Triad

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



63.8200, 0.2929, 0.5744



63.8200, 0.1300, 0.1575



63.8200, 0.5352, 0.3000

Complementary

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



63.8200, 0.2929, 0.5744



22.3047, 0.3954, 0.1952

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.



63.8200, 0.4211, 0.2306



63.8200, 0.2929, 0.5744



63.8200, 0.1842, 0.1532

Square

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



63.8200, 0.2929, 0.5744



63.8200, 0.1119, 0.1996



63.8200, 0.2841, 0.1785



63.8200, 0.5614, 0.3770

Rectangle

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



63.8200, 0.2929, 0.5744



63.8200, 0.1436, 0.3499



63.8200, 0.2841, 0.1785



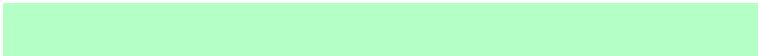
63.8200, 0.5049, 0.2758

Sweetspot

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



63.8226, 0.2929, 0.5744



85.0812, 0.2987, 0.3951



73.8912, 0.3779, 0.5381



17.8705, 0.2969, 0.4061



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.



63.8226, 0.2929, 0.5744



71.8687, 0.2930, 0.5749



66.7012, 0.2498, 0.4193



17.7195, 0.3082, 0.3474



34.3022, 0.2922, 0.5719



2.8688, 0.2853, 0.5472

Inverse Universe

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



22.3047, 0.3954, 0.1952



25.1065, 0.3957, 0.1953



19.2583, 0.5915, 0.3032



15.9618, 0.3175, 0.3113



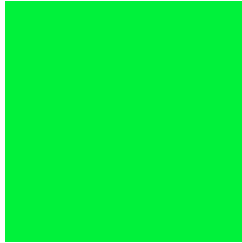
12.0022, 0.3939, 0.1944



1.0140, 0.3822, 0.1879

Previews

White Background



This preview shows how the Yxy color 63.8200, 0.2929, 0.5744 looks on a white background.

Color Contrast Check

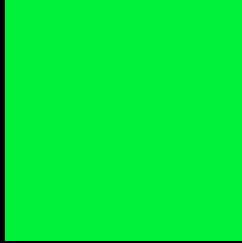
Large Text (above 18pt) WCAG AA × Fail

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 63.8200, 0.2929, 0.5744 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

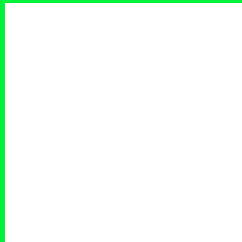
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 63.8200, 0.2929, 0.5744

Background



This preview shows how black text looks on a background with the Yxy color 63.8200, 0.2929, 0.5744.

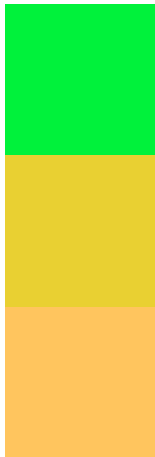


This preview shows how white text looks on a background with the Yxy color 63.8200, 0.2929, 0.5744.

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

63.8200, 0.2929, 0.5744

Protanopia

62.6657, 0.4314, 0.4765

Deuteranopia

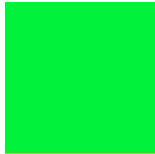
62.0007, 0.4377, 0.4292



Tritanopia

63.6337, 0.2348, 0.3064

Trichromacy



Original Color

63.8200, 0.2929, 0.5744



Protanomaly

57.7393, 0.3538, 0.5313



Deuteranomaly

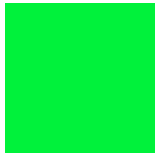
55.8640, 0.3572, 0.4966



Tritanomaly

61.9775, 0.2553, 0.4067

Monochromacy



Original Color

63.8200, 0.2929, 0.5744



Achromatopsia

30.0544, 0.3127, 0.3290



Achromatomaly

37.5608, 0.2924, 0.4428

CSS Examples

Text

The CSS property to change the color of the text to Yxy 63.8200, 0.2929, 0.5744 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(0, 242, 59)` looks like.

```
.text, #text, p{  
    color:rgb(0, 242, 59)  
}
```

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(0, 242, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 242, 59) }
```

Border

The CSS property to change the border of an element to Yxy 63.8200, 0.2929, 0.5744 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(0, 242, 59) }
```

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

```
.border{ border-color:rgb(0, 242, 59) }
```

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

Here you see how a box with a 4 pixel rgb(0, 242, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 242, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 242, 59);  
box-shadow:4px 4px 4px 4px rgb(0, 242, 59)  
}
```


Background

The CSS property to change the background color of an element to Yxy 63.8200, 0.2929, 0.5744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 242, 59) }
```

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

```
.background{ background-color: rgb(0, 242,  
59) }
```

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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