

# Converting Colors

$Y_{xy}(63.2161, 0.2779, 0.5205)$

Have a look what the booklet for  
Yxy(63.2161, 0.2779, 0.5205)  
contains.

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# Color

**Yxy(63.4029, 0.2778, 0.5201)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F06C
RGB	0, 240, 108
RGB Percent	0%, 94%, 42%
CMY	1.0000, 0.0588, 0.5765
CMYK	1.00, 0.00, 0.55, 0.06
HSL	147°, 100%, 47%
HSV	147°, 100%, 94%
XYZ	33.8653, 63.4029, 24.6370
YIQ	153.1920, -100.6680, -91.9320

# Conversions

## Conversions Part 2

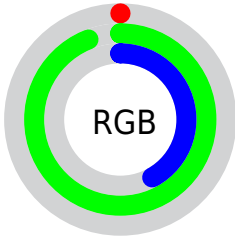
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 166, 240</a>
Decimal	<a href="#">61548</a>
CIELab	<a href="#">83.65, -75.08, 49.94</a>
CIELCh	<a href="#">84, 90.171, 146.366</a>
Yxy	<a href="#">63.4029, 0.2778, 0.5201</a>
Android (android.graphics.Color)	<a href="#">4278251628 (0xFF00F06C)</a>
YUV	<a href="#">153.1920, -22.2797, -134.3494</a>
Hunter-Lab	<a href="#">79.6259, -63.4285, 37.3933</a>

# Details

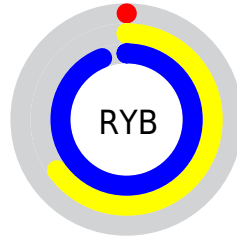
The Yxy color **63.4029, 0.2778, 0.5201** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark saturated spring green. A complement of this color would be **20.1926, 0.4779, 0.2406**, and the grayscale version is **32.0760, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5734, 0.2828, 0.4481**, and **33.7317, 0.2886, 0.5589** is the 20% darker color. If you saturate the color by 10%, you get **63.4062, 0.2778, 0.5201**, and if you desaturate by 10%, it is **63.9030, 0.2744, 0.5010**.

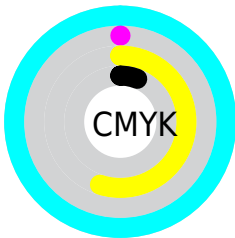
# Distribution



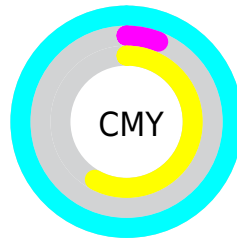
- Red (0%)
- Green (94%)
- Blue (42%)



- Red (0%)
- Yellow (65%)
- Blue (94%)



- Cyan (100%)
- Magenta (0%)
- Yellow (55%)
- Black (6%)




- Cyan (100%)
- Magenta (6%)
- Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4029, 0.2778, 0.5201 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 63.4029, 0.2778, 0.5201 by changing the saturation by 10% instead.




 63.4029, 0.2778,  
0.5201


 63.4029, 0.2778,  
0.5201


437.0302, 0.2999,  
0.4212


 46.1672, 0.2710,  
0.5450


 109.7506, 0.2868,  
0.4838


 32.3778, 0.2615,  
0.5767


 139.6313, 0.2899,  
0.4703

 21.6502, 0.2478,  
0.6181

 174.4960, 0.2924,  
0.4588

 13.6001, 0.2271,  
0.6731

 214.7288, 0.2945,  
0.4491

 7.8431, 0.1952,  
0.7507

 260.7142, 0.2962,  
0.4407

 3.9947, 0.1411,  
0.8589

312.8367, 0.2976,

 1.6706, 0.0000,

0.4333

1.0000

371.4806, 0.2988,  
0.4269

■ 0.4045, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.4029, 0.2778,  
0.5201

■ 63.4029, 0.2778,  
0.5201

■ 63.4062, 0.2778,  
0.5201

■ 63.9030, 0.2744,  
0.5010

■ 64.6843, 0.2727,  
0.4804

■ 65.8268, 0.2729,  
0.4588

■ 67.3766, 0.2750,  
0.4370

■ 69.3728, 0.2789,  
0.4157

■ 71.8497, 0.2842,  
0.3953

■ 74.8378, 0.2905,  
0.3762

■ 78.3655, 0.2976,  
0.3588

■ 82.4586, 0.3050,  
0.3431

# Harmonies

## Analogous

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



63.4029, 0.3788, 0.5346



63.4029, 0.2778, 0.5201



63.4029, 0.1914, 0.4076

# Triad

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



63.4029, 0.2778, 0.5201



63.4029, 0.1584, 0.1735



63.4029, 0.5167, 0.3241

# Complementary

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



63.4029, 0.2778, 0.5201



20.1926, 0.4779, 0.2406

# 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.



63.4029, 0.4331, 0.2575



63.4029, 0.2778, 0.5201



63.4029, 0.2178, 0.1754

# Square

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



63.4029, 0.2778, 0.5201



63.4029, 0.1342, 0.2046



63.4029, 0.3156, 0.2048



63.4029, 0.5254, 0.3974



# Rectangle

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



63.4029, 0.2778, 0.5201



63.4029, 0.1546, 0.3194



63.4029, 0.3156, 0.2048



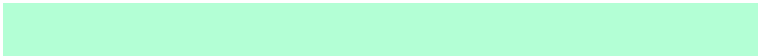
63.4029, 0.4962, 0.3010

# Sweetspot

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



63.4062, 0.2778, 0.5201



85.8443, 0.2904, 0.3764



67.5581, 0.3451, 0.5642



18.0485, 0.2877, 0.3843



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.



63.4062, 0.2778, 0.5201



72.7518, 0.2780, 0.5207



67.7057, 0.2305, 0.3498



17.7746, 0.3054, 0.3423



34.7336, 0.2770, 0.5171



2.9093, 0.2699, 0.4917



# Inverse Universe

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



20.1926, 0.4779, 0.2406



23.1612, 0.4785, 0.2410



18.5637, 0.6347, 0.3270



15.9044, 0.3207, 0.3161



11.0804, 0.4747, 0.2389

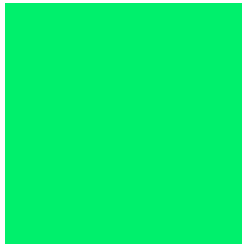


0.9418, 0.4488, 0.2246



# Previews

## White Background



This preview shows how the Yxy color 63.4029, 0.2778, 0.5201 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 63.4029, 0.2778, 0.5201 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 63.4029, 0.2778, 0.5201**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4029, 0.2778, 0.5201.



This preview shows how white text looks on a background with the Yxy color 63.4029, 0.2778, 0.5201.

# 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

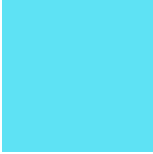
63.4029, 0.2778, 0.5201

### Protanopia

62.1467, 0.4078, 0.4463

### Deuteranopia

61.7736, 0.4180, 0.4094



## **Tritanopia**

63.3040, 0.2329, 0.3062

# Trichromacy



## Original Color

63.4029, 0.2778, 0.5201



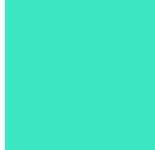
## Protanomaly

57.7136, 0.3333, 0.4866



## Deuteranomaly

56.2999, 0.3376, 0.4592



## Tritanomaly

62.0526, 0.2459, 0.3788

# Monochromacy



## Original Color

63.4029, 0.2778, 0.5201



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

39.0455, 0.2802, 0.4083

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4029, 0.2778, 0.5201 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, 240, 108)` looks like.

```
.text, #text, p{  
    color:rgb(0, 240, 108)  
}
```

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, 240, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 240, 108) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4029, 0.2778, 0.5201 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, 240, 108) }
```

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

```
.border{ border-color:rgb(0, 240, 108) }
```

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

Here you see how a box with a 4 pixel rgb(0, 240, 108) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 240, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 240, 108);  
box-shadow:4px 4px 4px 4px rgb(0, 240,  
108) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4029, 0.2778, 0.5201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 240, 108) }
```

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

```
.background{ background-color: rgb(0, 240,  
108) }
```

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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