

# Converting Colors

$Y_{xy}(59.2974, 0.2877, 0.5557)$

Have a look what the booklet for  
Yxy(59.2974, 0.2877, 0.5557)  
contains.

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# Color

**Yxy(59.3674, 0.2878, 0.5560)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EA4C
RGB	0, 234, 76
RGB Percent	0%, 92%, 30%
CMY	0.9989, 0.0824, 0.7019
CMYK	1.00, 0.00, 0.68, 0.08
HSL	139°, 100%, 46%
HSV	139°, 100%, 92%
XYZ	30.7301, 59.3674, 16.6784
YIQ	146.0220, -88.7460, -98.7460

# Conversions

## Conversions Part 2

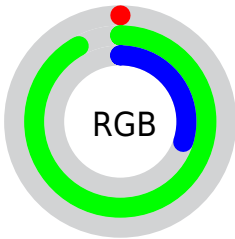
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 177, 234</a>
Decimal	<a href="#">59980</a>
CIELab	<a href="#">81.49, -77.06, 61.08</a>
CIELCh	<a href="#">81, 98.329, 141.597</a>
Yxy	<a href="#">59.3674, 0.2878, 0.5560</a>
Android (android.graphics.Color)	<a href="#">4278250060 (0xFF00EA4C)</a>
YUV	<a href="#">146.0220, -34.5208, -128.0613</a>
Hunter-Lab	<a href="#">77.0502, -63.6464, 41.1012</a>

# Details

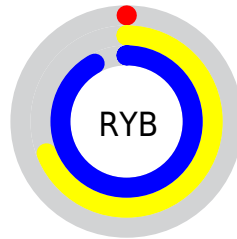
The Yxy color **59.3674, 0.2878, 0.5560** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **19.9766, 0.4255, 0.2118**, and the grayscale version is **28.9629, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6307, 0.2961, 0.4868**, and **31.0594, 0.2996, 0.5985** is the 20% darker color. If you saturate the color by 10%, you get **59.3654, 0.2878, 0.5562**, and if you desaturate by 10%, it is **59.8061, 0.2845, 0.5365**.

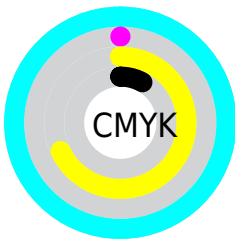
# Distribution



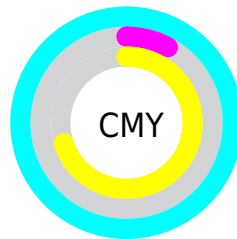
- Red (0%)
- Green (92%)
- Blue (30%)



- Red (0%)
- Yellow (69%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (68%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (70%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.3674, 0.2878, 0.5560 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 59.3674, 0.2878, 0.5560 by changing the saturation by 10% instead.





 59.3674, 0.2878,  
0.5560


 59.3674, 0.2878,  
0.5560

422.2621, 0.3080,  
0.4377


 42.9089, 0.2803,  
0.5854


 103.9115, 0.2970,  
0.5127


 29.8137, 0.2693,  
0.6223


 132.7658, 0.2999,  
0.4965


 19.6972, 0.2527,  
0.6692


 166.5210, 0.3022,  
0.4828

 12.1751, 0.2268,  
0.7294

 205.5613, 0.3039,  
0.4711

 6.8631, 0.1873,  
0.8127

 250.2712, 0.3053,  
0.4610

 3.3766, 0.1013,  
0.8987

301.0350, 0.3064,

 1.3314, 0.0000,

0.4522

1.0000

358.2372, 0.3073,  
0.4445

■ 0.1653, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 59.3674, 0.2878,  
0.5560

■ 59.3674, 0.2878,  
0.5560

■ 59.3654, 0.2878,  
0.5562

■ 59.8061, 0.2845,  
0.5365

■ 60.5276, 0.2825,  
0.5137

■ 61.6079, 0.2822,  
0.4885

■ 63.0919, 0.2836,  
0.4623

■ 65.0175, 0.2865,  
0.4361

■ 67.4182, 0.2907,  
0.4108

■ 70.3240, 0.2956,  
0.3872

■ 73.7624, 0.3011,  
0.3656

■ 77.7591, 0.3069,  
0.3461

# Harmonies

## Analogous

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



59.3674, 0.3967, 0.5468



59.3674, 0.2878, 0.5560



59.3674, 0.1905, 0.4417

# Triad

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



59.3674, 0.2878, 0.5560



59.3674, 0.1395, 0.1629



59.3674, 0.5292, 0.3085

# Complementary

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



59.3674, 0.2878, 0.5560



19.9766, 0.4255, 0.2118

# Split Complementary

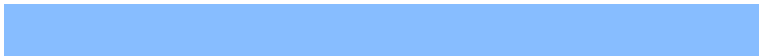
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



59.3674, 0.4259, 0.2399



59.3674, 0.2878, 0.5560



59.3674, 0.1956, 0.1606

# Square

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



59.3674, 0.2878, 0.5560



59.3674, 0.1194, 0.2012



59.3674, 0.2953, 0.1875



59.3674, 0.5490, 0.3845



# Rectangle

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



59.3674, 0.2878, 0.5560



59.3674, 0.1473, 0.3384



59.3674, 0.2953, 0.1875



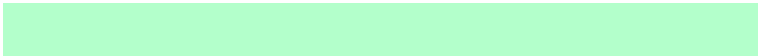
59.3674, 0.5024, 0.2846

# Sweetspot

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



59.3698, 0.2878, 0.5560



85.3698, 0.2955, 0.3878



66.3192, 0.3638, 0.5493



17.9374, 0.2933, 0.3976



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.



59.3698, 0.2878, 0.5560



72.1388, 0.2881, 0.5570



62.6161, 0.2415, 0.3892



16.9426, 0.3072, 0.3453



33.3804, 0.2871, 0.5534



2.6382, 0.2793, 0.5255



# Inverse Universe

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



19.9766, 0.4255, 0.2118



24.2529, 0.4262, 0.2122



17.6740, 0.6144, 0.3159



15.2259, 0.3187, 0.3132



11.2445, 0.4236, 0.2107

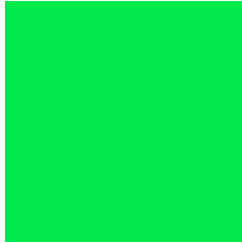


0.9005, 0.4058, 0.2009



# Previews

## White Background



This preview shows how the Yxy color 59.3674, 0.2878, 0.5560 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

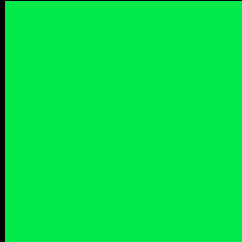
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.3674, 0.2878, 0.5560 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

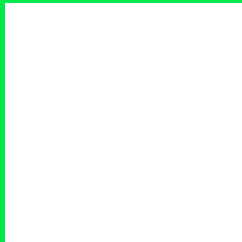
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 59.3674, 0.2878, 0.5560**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.3674, 0.2878, 0.5560.

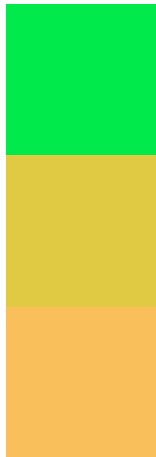


This preview shows how white text looks on a background with the Yxy color 59.3674, 0.2878, 0.5560.

# 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

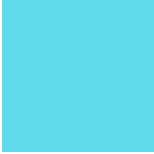
59.3674, 0.2878, 0.5560

### Protanopia

58.0258, 0.4231, 0.4664

### Deuteranopia

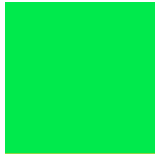
57.9562, 0.4388, 0.4297



## **Tritanopia**

59.1521, 0.2345, 0.3069

# Trichromacy



## Original Color

59.3674, 0.2878, 0.5560



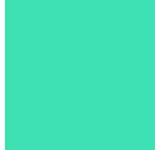
## Protanomaly

53.8703, 0.3471, 0.5161



## Deuteranomaly

52.5506, 0.3545, 0.4896



## Tritanomaly

57.5178, 0.2518, 0.3955

# Monochromacy



## Original Color

59.3674, 0.2878, 0.5560



## Achromatopsia

28.7441, 0.3127, 0.3290



## Achromatomaly

35.5484, 0.2873, 0.4276

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.3674, 0.2878, 0.5560 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, 234, 76)` looks like.

```
.text, #text, p{  
    color:rgb(0, 234, 76)  
}
```

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, 234, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 234, 76) }
```

## Border

The CSS property to change the border of an element to Yxy 59.3674, 0.2878, 0.5560 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, 234, 76) }
```

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

```
.border{ border-color:rgb(0, 234, 76) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 234, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 234, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 234, 76);  
box-shadow:4px 4px 4px 4px rgb(0, 234, 76)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 59.3674, 0.2878, 0.5560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 234, 76) }
```

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

```
.background{ background-color: rgb(0, 234,  
76) }
```

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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