

# Converting Colors

$Y_{xy}(55.9172, 0.3032, 0.5974)$

Have a look what the booklet for  
Yxy(55.9172, 0.3032, 0.5974)  
contains.

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# Color

**Yxy(55.7781, 0.3032, 0.5974)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FE400
RGB	31, 228, 0
RGB Percent	12%, 89%, 0%
CMY	0.8785, 0.1059, 0.9990
CMYK	0.86, 0.00, 1.00, 0.11
HSL	112°, 100%, 45%
HSV	112°, 100%, 89%
XYZ	28.3092, 55.7781, 9.2808
YIQ	143.1050, -44.2240, -112.6720

# Conversions

## Conversions Part 2

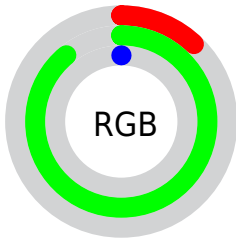
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 228, 197
Decimal	2089984
CIELab	79.49, -77.67, 76.62
CIELCh	79, 109.099, 135.392
Yxy	55.7781, 0.3032, 0.5974
Android (android.graphics.Color)	4280280064 (0xFF1FE400)
YUV	143.1050, -70.5508, -98.3161
Hunter-Lab	74.6847, -63.0380, 44.9116

# Details

The Yxy color **55.7781, 0.3032, 0.5974** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **17.5148, 0.2866, 0.1353**, and the grayscale version is **27.8247, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.1301, 0.3163, 0.5340**, and **29.1258, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **55.7764, 0.3032, 0.5975**, and if you desaturate by 10%, it is **56.2472, 0.3059, 0.5882**.

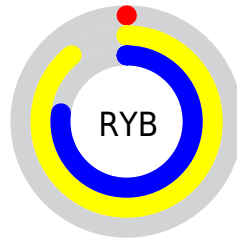
# Distribution



Red (12%)

Green (89%)

Blue (0%)



Red (0%)

Yellow (89%)

Blue (77%)

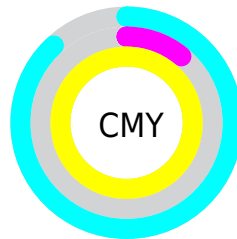


Cyan (86%)

Magenta (0%)

Yellow (100%)

Black (11%)



Cyan (88%)

Magenta (11%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.7781, 0.3032, 0.5974 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 55.7781, 0.3032, 0.5974 by changing the saturation by 10% instead.





 55.7781, 0.3032,  
0.5974

 55.7781, 0.3032,  
0.5974


408.8547, 0.3211,  
0.4591


 40.0250, 0.2943,  
0.6298


 98.6801, 0.3131,  
0.5480

 27.5581, 0.2805,  
0.6688


 126.5978, 0.3158,  
0.5290


 17.9928, 0.2593,  
0.7164


 159.3391, 0.3177,  
0.5128

 10.9448, 0.2264,  
0.7736

 197.2885, 0.3190,  
0.4990

 6.0297, 0.1731,  
0.8269

 240.8304, 0.3199,  
0.4870

 2.8632, 0.0512,  
0.9488


 290.3491, 0.3205,


 1.0607, 0.0000,


0.4765

1.0000

346.2291, 0.3209,  
0.4673


 0.0000, 0.0000,  
0.0000


 55.7781, 0.3032,  
0.5974


 55.7781, 0.3032,  
0.5974


 55.7764, 0.3032,  
0.5975

 56.2472, 0.3059,  
0.5882

 57.0033, 0.3087,  
0.5715

 58.0959, 0.3112,  
0.5471

 59.5596, 0.3130,  
0.5169

 61.4245, 0.3142,  
0.4832

■ 63.7175, 0.3148,  
0.4485

■ 66.4632, 0.3148,  
0.4147

■ 69.6843, 0.3144,  
0.3830

■ 73.4020, 0.3136,  
0.3543

# Harmonies

## Analogous

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



55.7781, 0.4208, 0.5510



55.7781, 0.3032, 0.5974



55.7781, 0.1934, 0.4951

# Triad

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



55.7781, 0.3032, 0.5974



55.7781, 0.1173, 0.1518



55.7781, 0.5389, 0.2865

# Complementary

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



55.7781, 0.3032, 0.5974



17.5148, 0.2866, 0.1353

# 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.



55.7781, 0.4084, 0.2166



55.7781, 0.3032, 0.5974



55.7781, 0.1675, 0.1437

# Square

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



55.7781, 0.3032, 0.5974



55.7781, 0.1028, 0.2007



55.7781, 0.2651, 0.1660



55.7781, 0.5775, 0.3641



# Rectangle

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



55.7781, 0.3032, 0.5974



55.7781, 0.1412, 0.3725



55.7781, 0.2651, 0.1660



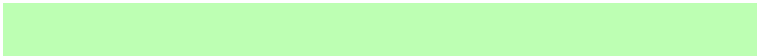
55.7781, 0.5028, 0.2620

# Sweetspot

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



55.7804, 0.3032, 0.5974



85.5505, 0.3148, 0.4157



55.0084, 0.4489, 0.4817



17.9760, 0.3148, 0.4298



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.



55.7804, 0.3032, 0.5974



71.8670, 0.3030, 0.5976



56.0692, 0.2859, 0.5490



16.1819, 0.3136, 0.3531



32.2354, 0.3037, 0.5970



2.4121, 0.3112, 0.5911



# Inverse Universe

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



17.5148, 0.2866, 0.1353



22.5286, 0.2864, 0.1351



18.6476, 0.4356, 0.2174



14.5115, 0.3116, 0.3057



10.1454, 0.2871, 0.1356

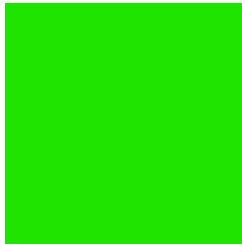


0.7771, 0.2924, 0.1384



# Previews

## White Background



This preview shows how the Yxy color 55.7781, 0.3032, 0.5974 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

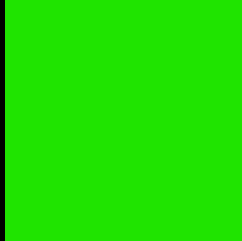
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.7781, 0.3032, 0.5974 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

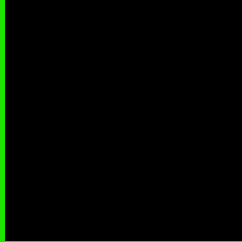
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.7781, 0.3032, 0.5974**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.7781, 0.3032, 0.5974.



This preview shows how white text looks on a background with the Yxy color 55.7781, 0.3032, 0.5974.

# 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

55.7781, 0.3032, 0.5974

### Protanopia

54.6955, 0.4401, 0.4887

### Deuteranopia

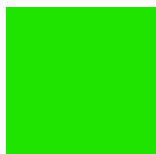
54.3322, 0.4616, 0.4514



## Tritanopia

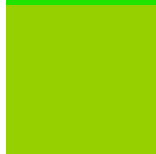
55.3968, 0.2369, 0.3064

# Trichromacy



## Original Color

55.7781, 0.3032, 0.5974



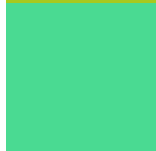
## Protanomaly

51.6911, 0.3713, 0.5434



## Deuteranomaly

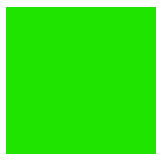
50.0877, 0.3855, 0.5208



## Tritanomaly

53.6740, 0.2699, 0.4379

# Monochromacy



## Original Color

55.7781, 0.3032, 0.5974



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

33.8522, 0.3143, 0.4728

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.7781, 0.3032, 0.5974 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(31, 228, 0)` looks like.

```
.text, #text, p{  
    color:rgb(31, 228, 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(31, 228, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 228, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 55.7781, 0.3032, 0.5974 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(31, 228, 0) }
```

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

```
.border{ border-color:rgb(31, 228, 0) }
```

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

Here you see how a box with a 4 pixel rgb(31, 228, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 228, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 228, 0);  
box-shadow:4px 4px 4px 4px rgb(31, 228, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 55.7781, 0.3032, 0.5974 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 228, 0) }
```

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

```
.background{ background-color: rgb(31, 228,  
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](#).

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