

# Converting Colors

$Y_{xy}(63.3375, 0.3095, 0.5392)$

Have a look what the booklet for  
Yxy(63.3375, 0.3095, 0.5392)  
contains.

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# Color

**Yxy(63.6197, 0.3098, 0.5396)**

# Conversions

## Conversions Part 1

Format	Color
Hex	60ED4F
RGB	96, 237, 79
RGB Percent	38%, 93%, 31%
CMY	0.6232, 0.0706, 0.6901
CMYK	0.59, 0.00, 0.67, 0.07
HSL	114°, 81%, 62%
HSV	114°, 67%, 93%
XYZ	36.5259, 63.6197, 17.7560
YIQ	176.8290, -33.3180, -79.0300

# Conversions

## Conversions Part 2

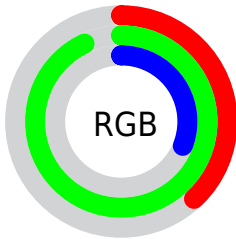
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 237, 220
Decimal	6352207
CIELab	83.77, -66.52, 62.75
CIELCh	84, 91.440, 136.671
Yxy	63.6197, 0.3098, 0.5396
Android (android.graphics.Color)	4284542287 (0xFF60ED4F)
YUV	176.8290, -48.2297, -70.8870
Hunter-Lab	79.7620, -57.8418, 42.6347

# Details

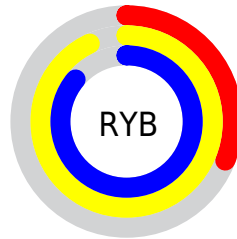
The Yxy color **63.6197, 0.3098, 0.5396** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted chartreuse. A complement of this color would be **26.9175, 0.3025, 0.1711**, and the grayscale version is **44.1560, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.6402, 0.3189, 0.4724**, and **32.6622, 0.2991, 0.5968** is the 20% darker color. If you saturate the color by 10%, you get **62.3387, 0.3076, 0.5661**, and if you desaturate by 10%, it is **65.3374, 0.3115, 0.5078**.

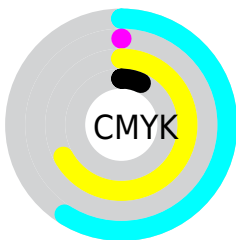
# Distribution



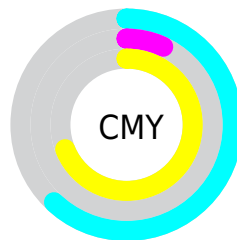
- Red (38%)
- Green (93%)
- Blue (31%)



- Red (31%)
- Yellow (93%)
- Blue (86%)



- Cyan (59%)
- Magenta (0%)
- Yellow (67%)
- Black (7%)




- Cyan (62%)
- Magenta (7%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.6197, 0.3098, 0.5396 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 63.6197, 0.3098, 0.5396 by changing the saturation by 10% instead.





 63.6197, 0.3098,  
0.5396


 63.6197, 0.3098,  
0.5396


437.8150, 0.3188,  
0.4326


 46.3427, 0.3052,  
0.5654

 110.0631, 0.3149,  
0.5011


 32.5164, 0.2979,  
0.5975


 139.9982, 0.3162,  
0.4864

 21.7562, 0.2863,  
0.6377


 174.9216, 0.3172,  
0.4740

 13.6779, 0.2670,  
0.6882

 215.2175, 0.3178,  
0.4633

 7.8970, 0.2379,  
0.7621

 261.2705, 0.3182,  
0.4541

 4.0291, 0.1789,  
0.8211

313.4647, 0.3185,

 1.6898, 0.0000,

0.4460

1.0000

372.1848, 0.3187,  
0.4389

0.4171, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

63.6197, 0.3098,  
0.5396

63.6197, 0.3098,  
0.5396

62.3387, 0.3076,  
0.5661

65.3374, 0.3115,  
0.5078

61.4473, 0.3052,  
0.5852


67.5179, 0.3127,  
0.4731

60.9015, 0.3028,  
0.5959

70.1949, 0.3133,  
0.4382


60.7806, 0.3022,  
0.5983

73.3964, 0.3136,  
0.4046

 77.1485, 0.3134,  
0.3736

 81.4754, 0.3131,  
0.3457

 86.3999, 0.3125,  
0.3211

 89.0465, 0.3135,  
0.3117

# Harmonies

## Analogous

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



63.6197, 0.4108, 0.5220



63.6197, 0.3098, 0.5396



63.6197, 0.2146, 0.4525

# Triad

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



63.6197, 0.3098, 0.5396



63.6197, 0.1454, 0.1779



63.6197, 0.4992, 0.3012

# Complementary

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



63.6197, 0.3098, 0.5396



26.9175, 0.3025, 0.1711

# 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.



63.6197, 0.3968, 0.2375



63.6197, 0.3098, 0.5396



63.6197, 0.1931, 0.1701

# Square

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



63.6197, 0.3098, 0.5396



63.6197, 0.1317, 0.2224



63.6197, 0.2797, 0.1912



63.6197, 0.5334, 0.3729



# Rectangle

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



63.6197, 0.3098, 0.5396



63.6197, 0.1684, 0.3610



63.6197, 0.2797, 0.1912



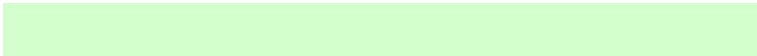
63.6197, 0.4707, 0.2787

# Sweetspot

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



63.6224, 0.3098, 0.5396



89.5086, 0.3135, 0.3839



69.0063, 0.4158, 0.4661



18.8903, 0.3135, 0.3926



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.



63.6224, 0.3098, 0.5396



73.1762, 0.3068, 0.5740



64.1111, 0.2782, 0.4668



16.9399, 0.3132, 0.3532



33.2120, 0.3027, 0.5979



2.6339, 0.3087, 0.5931



# Inverse Universe

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



26.9175, 0.3025, 0.1711



26.9084, 0.2989, 0.1522



26.7519, 0.3917, 0.2298



15.2264, 0.3121, 0.3057



10.9684, 0.2939, 0.1393

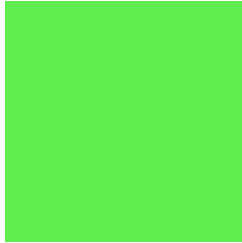


0.8849, 0.2979, 0.1415



# Previews

## White Background



This preview shows how the Yxy color 63.6197, 0.3098, 0.5396 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

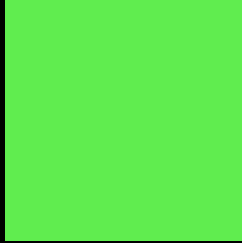
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.6197, 0.3098, 0.5396 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

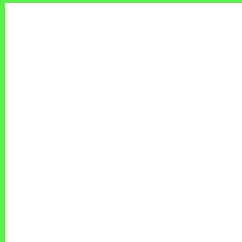
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 63.6197, 0.3098, 0.5396**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.6197, 0.3098, 0.5396.



This preview shows how white text looks on a background with the Yxy color 63.6197, 0.3098, 0.5396.

# 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

63.6197, 0.3098, 0.5396

### Protanopia

62.2364, 0.4235, 0.4646

### Deuteranopia

62.0934, 0.4347, 0.4253



## Tritanopia

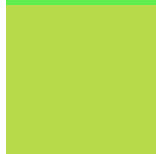
63.3801, 0.2489, 0.3080

# Trichromacy



## Original Color

63.6197, 0.3098, 0.5396



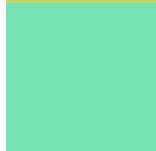
## Protanomaly

60.7045, 0.3747, 0.4963



## Deuteranomaly

59.7300, 0.3809, 0.4691



## Tritanomaly

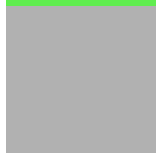
62.1963, 0.2730, 0.3911

# Monochromacy



## Original Color

63.6197, 0.3098, 0.5396



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

49.0658, 0.3141, 0.4116

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.6197, 0.3098, 0.5396 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(96, 237, 79)` looks like.

```
.text, #text, p{  
    color:rgb(96, 237, 79)  
}
```

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(96, 237, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 237, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 63.6197, 0.3098, 0.5396 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(96, 237, 79) }
```

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

```
.border{ border-color:rgb(96, 237, 79) }
```

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

Here you see how a box with a 4 pixel rgb(96, 237, 79) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 237, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 237, 79);  
box-shadow:4px 4px 4px 4px rgb(96, 237,  
79) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.6197, 0.3098, 0.5396 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 237, 79) }
```

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

```
.background{ background-color: rgb(96, 237,  
79) }
```

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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