

# Converting Colors

$Y_{xy}(75.4491, 0.3010, 0.5162)$

Have a look what the booklet for  
Yxy(75.4491, 0.3010, 0.5162)  
contains.

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# Color

**Yxy(75.4489, 0.3010, 0.5162)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FF6D
RGB	102, 255, 109
RGB Percent	40%, 100%, 43%
CMY	0.6003, 0.0000, 0.5724
CMYK	0.60, 0.00, 0.57, 0.00
HSL	123°, 100%, 70%
HSV	123°, 60%, 100%
XYZ	43.9948, 75.4489, 26.7184
YIQ	192.6090, -44.3220, -77.8420

# Conversions

## Conversions Part 2

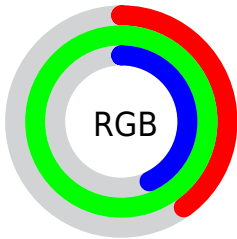
Format	Color
<a href="#">RYB</a>	<a href="#">102, 248, 255</a>
Decimal	<a href="#">6750061</a>
CIELab	<a href="#">89.60, -68.41, 56.86</a>
CIELCh	<a href="#">90, 88.956, 140.267</a>
Yxy	<a href="#">75.4489, 0.3010, 0.5162</a>
Android (android.graphics.Color)	<a href="#">4284940141 (0xFF66FF6D)</a>
YUV	<a href="#">192.6090, -41.2192, -79.4641</a>
Hunter-Lab	<a href="#">86.8613, -61.5980, 42.5654</a>

# Details

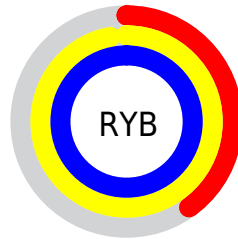
The Yxy color **75.4489, 0.3010, 0.5162** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **37.5204, 0.3258, 0.1943**, and the grayscale version is **53.3412, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3073, 0.3088, 0.4368**, and **40.2118, 0.2908, 0.5661** is the 20% darker color. If you saturate the color by 10%, you get **73.7254, 0.2998, 0.5471**, and if you desaturate by 10%, it is **77.7681, 0.3027, 0.4820**.

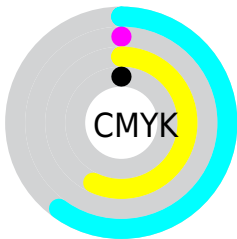
# Distribution



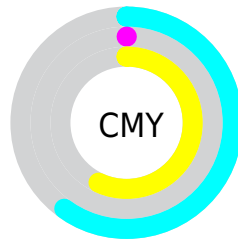
- Red (40%)
- Green (100%)
- Blue (43%)



- Red (40%)
- Yellow (97%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (57%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.4489, 0.3010, 0.5162 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 75.4489, 0.3010, 0.5162 by changing the saturation by 10% instead.




 75.4489, 0.3010,  
0.5162


 75.4489, 0.3010,  
0.5162


479.4591, 0.3120,  
0.4232

 55.9807, 0.2968,  
0.5384


 126.9476, 0.3061,  
0.4830

 40.1875, 0.2908,  
0.5660


 159.7469, 0.3077,  
0.4703

 27.6847, 0.2817,  
0.6010


 197.7587, 0.3089,  
0.4595

 18.0881, 0.2675,  
0.6460

 241.3674, 0.3099,  
0.4502

 11.0133, 0.2443,  
0.7046

290.9574, 0.3106,  
0.4421

 6.0758, 0.2085,  
0.7915


346.9131, 0.3112,


 2.8912, 0.1196,


0.4350


0.8804

409.6188, 0.3117,  
0.4288


 1.0752, 0.0000,  
1.0000

 0.0000, 0.0000,  
0.0000

 75.4489, 0.3010,  
0.5162


 75.4489, 0.3010,  
0.5162


 73.7254, 0.2998,  
0.5471


 77.7681, 0.3027,  
0.4820


 72.5524, 0.2992,  
0.5720

 80.7425, 0.3046,  
0.4470

 71.8600, 0.2992,  
0.5891

 84.4125, 0.3067,  
0.4132

 71.5461, 0.2995,  
0.5980

 88.8182, 0.3088,  
0.3819

 93.9967, 0.3108,  
0.3538

99.9825, 0.3127,  
0.3291

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.4489, 0.3963, 0.5146



75.4489, 0.3010, 0.5162



75.4489, 0.2137, 0.4272

# Triad

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



75.4489, 0.3010, 0.5162



75.4489, 0.1591, 0.1852



75.4489, 0.4923, 0.3126

# Complementary

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



75.4489, 0.3010, 0.5162



37.5204, 0.3258, 0.1943

# Split Complementary

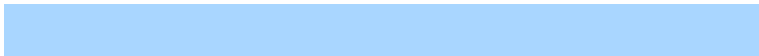
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



75.4489, 0.4037, 0.2504



75.4489, 0.3010, 0.5162



75.4489, 0.2091, 0.1807

# Square

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



75.4489, 0.3010, 0.5162



75.4489, 0.1424, 0.2236



75.4489, 0.2948, 0.2038



75.4489, 0.5168, 0.3820



# Rectangle

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



75.4489, 0.3010, 0.5162



75.4489, 0.1727, 0.3449



75.4489, 0.2948, 0.2038



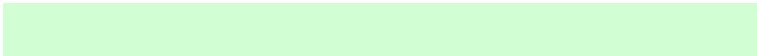
75.4489, 0.4684, 0.2907

# Sweetspot

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



75.4454, 0.3010, 0.5162



89.8045, 0.3092, 0.3759



92.7830, 0.3942, 0.4717



18.9210, 0.3086, 0.3845



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.



75.4454, 0.3010, 0.5162



73.4526, 0.2996, 0.5525



77.7833, 0.2692, 0.4202



20.1818, 0.3109, 0.3524



37.3902, 0.2992, 0.5972



3.6451, 0.2974, 0.5906



# Inverse Universe

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



37.5204, 0.3258, 0.1943



32.5014, 0.3284, 0.1772



33.7803, 0.4096, 0.2583



18.2850, 0.3145, 0.3067



14.5021, 0.3329, 0.1608

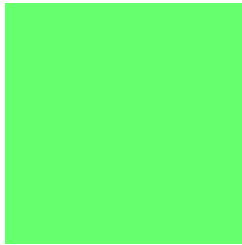


1.4163, 0.3314, 0.1599



# Previews

## White Background



This preview shows how the Yxy color 75.4489, 0.3010, 0.5162 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 75.4489, 0.3010, 0.5162 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

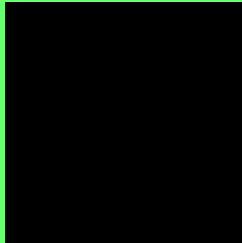
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 75.4489, 0.3010, 0.5162**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.4489, 0.3010, 0.5162.

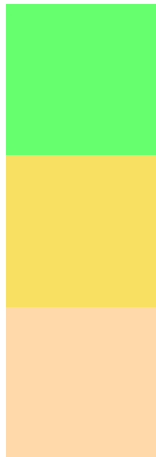


This preview shows how white text looks on a background with the Yxy color 75.4489, 0.3010, 0.5162.

# 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

75.4489, 0.3010, 0.5162

### Protanopia

74.1686, 0.4114, 0.4513

### Deuteranopia

73.7880, 0.3750, 0.3774



## Tritanopia

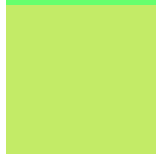
74.9484, 0.2535, 0.3095

# Trichromacy



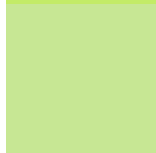
## Original Color

75.4489, 0.3010, 0.5162



## Protanomaly

71.9980, 0.3632, 0.4784



## Deuteranomaly

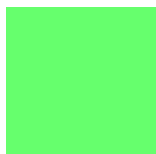
71.4321, 0.3428, 0.4260



## Tritanomaly

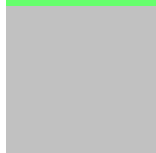
73.9522, 0.2716, 0.3812

# Monochromacy



## Original Color

75.4489, 0.3010, 0.5162



## Achromatopsia

53.3276, 0.3127, 0.3290



## Achromatomaly

59.1940, 0.3080, 0.4000

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.4489, 0.3010, 0.5162 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(102, 255, 109)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 109)  
}
```

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(102, 255, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 109) }
```

## Border

The CSS property to change the border of an element to Yxy 75.4489, 0.3010, 0.5162 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(102, 255, 109) }
```

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

```
.border{ border-color:rgb(102, 255, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 255, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 109);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
109) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.4489, 0.3010, 0.5162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 255, 109) }
```

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

```
.background{ background-color: rgb(102,  
255, 109) }
```

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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