

# Converting Colors

$Yxy(77.1905, 0.3049, 0.4949)$

Have a look what the booklet for  
Yxy(77.1905, 0.3049, 0.4949)  
contains.

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# Color

**Yxy(77.1610, 0.3049, 0.4953)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BFF7B
RGB	123, 255, 123
RGB Percent	48%, 100%, 48%
CMY	0.5178, 0.0000, 0.5177
CMYK	0.52, 0.00, 0.52, 0.00
HSL	120°, 100%, 74%
HSV	120°, 52%, 100%
XYZ	47.4993, 77.1610, 31.1261
YIQ	200.4840, -36.3000, -69.0360

# Conversions

## Conversions Part 2

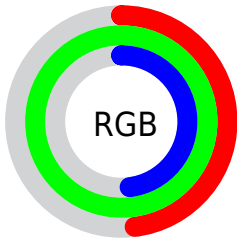
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">123, 255, 255</a>
Decimal	<a href="#">8126331</a>
CIELab	<a href="#">90.40, -61.82, 51.69</a>
CIElCh	<a href="#">90, 80.582, 140.099</a>
Yxy	<a href="#">77.1610, 0.3049, 0.4953</a>
Android (android.graphics.Color)	<a href="#">4286316411 (0xFF7BFF7B)</a>
YUV	<a href="#">200.4840, -38.1996, -67.9535</a>
Hunter-Lab	<a href="#">87.8413, -57.2004, 40.4798</a>

# Details

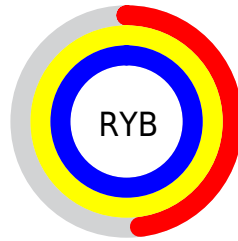
The Yxy color **77.1610, 0.3049, 0.4953** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **42.6353, 0.3186, 0.2047**, and the grayscale version is **58.3224, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.8016, 0.3115, 0.4172**, and **41.2446, 0.2973, 0.5387** is the 20% darker color. If you saturate the color by 10%, you get **74.9594, 0.3033, 0.5297**, and if you desaturate by 10%, it is **80.0130, 0.3066, 0.4590**.

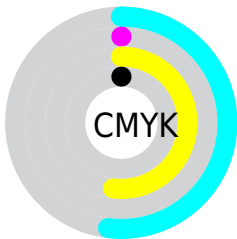
# Distribution



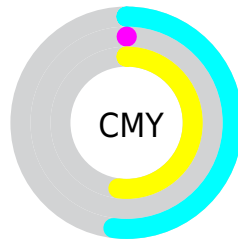
- Red (48%)
- Green (100%)
- Blue (48%)



- Red (48%)
- Yellow (100%)
- Blue (100%)



- Cyan (52%)
- Magenta (0%)
- Yellow (52%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.1610, 0.3049, 0.4953 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 77.1610, 0.3049, 0.4953 by changing the saturation by 10% instead.




 77.1610, 0.3049,  
0.4953


 77.1610, 0.3049,  
0.4953


485.3128, 0.3129,  
0.4133


 57.3850, 0.3018,  
0.5148


 129.3667, 0.3087,  
0.4661

 41.3144, 0.2973,  
0.5392


 162.5653, 0.3098,  
0.4549

 28.5649, 0.2905,  
0.5703


 201.0068, 0.3107,  
0.4454

 18.7519, 0.2797,  
0.6106

245.0757, 0.3114,  
0.4372

 11.4911, 0.2617,  
0.6640

295.1563, 0.3119,  
0.4301

 6.3982, 0.2372,  
0.7569


351.6331, 0.3123,


 3.0887, 0.1710,


0.4238


0.8290


414.8905, 0.3126,  
0.4182


 1.1782, 0.0000,  
1.0000


 0.0438, 0.0000,  
1.0000

 77.1610, 0.3049,  
0.4953


 77.1610, 0.3049,  
0.4953


 74.9594, 0.3033,  
0.5297


 80.0130, 0.3066,  
0.4590

 73.3643, 0.3019,  
0.5593


 83.5700, 0.3083,  
0.4234

 72.3130, 0.3009,  
0.5815

 87.8716, 0.3098,  
0.3901

 71.7333, 0.3002,  
0.5949

 92.9566, 0.3113,  
0.3599

 71.5201, 0.3000,  
0.6000

 98.8614, 0.3125,  
0.3334

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.



77.1610, 0.3924, 0.4977



77.1610, 0.3049, 0.4953



77.1610, 0.2241, 0.4171

# Triad

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



77.1610, 0.3049, 0.4953



77.1610, 0.1710, 0.1973



77.1610, 0.4742, 0.3155

# Complementary

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



77.1610, 0.3049, 0.4953



42.6353, 0.3186, 0.2047

# Split Complementary

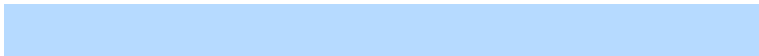
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.1610, 0.3945, 0.2571



77.1610, 0.3049, 0.4953



77.1610, 0.2179, 0.1922

# Square

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



77.1610, 0.3049, 0.4953



77.1610, 0.1556, 0.2344



77.1610, 0.2967, 0.2136



77.1610, 0.4985, 0.3807



# Rectangle

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



77.1610, 0.3049, 0.4953



77.1610, 0.1855, 0.3451



77.1610, 0.2967, 0.2136



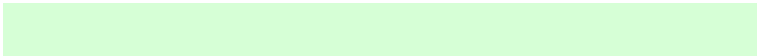
77.1610, 0.4525, 0.2950

# Sweetspot

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



77.1583, 0.3049, 0.4953



90.7120, 0.3107, 0.3722



94.2092, 0.3884, 0.4541



19.1930, 0.3104, 0.3784



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.



77.1583, 0.3049, 0.4953



74.9178, 0.3033, 0.5304



79.4017, 0.2749, 0.4110



20.1683, 0.3116, 0.3536



37.3708, 0.3000, 0.6000



3.6387, 0.3000, 0.6000



# Inverse Universe

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



42.6353, 0.3186, 0.2047



37.0086, 0.3195, 0.1860



39.0906, 0.3853, 0.2619



18.3003, 0.3138, 0.3056



14.8795, 0.3210, 0.1542

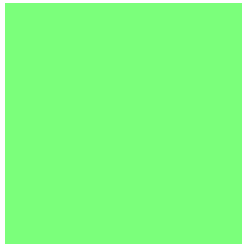


1.4488, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 77.1610, 0.3049, 0.4953 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

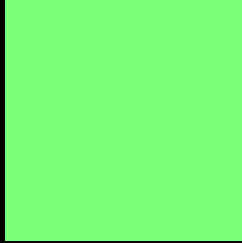
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.1610, 0.3049, 0.4953 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

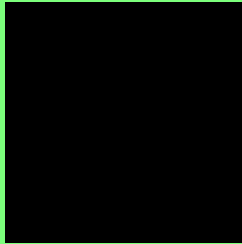
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

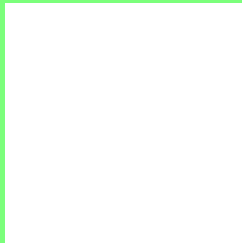
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.1610, 0.3049, 0.4953**

## Background



This preview shows how black text looks on a background with the Yxy color 77.1610, 0.3049, 0.4953.

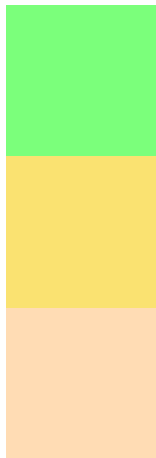


This preview shows how white text looks on a background with the Yxy color 77.1610, 0.3049, 0.4953.

# 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

77.1610, 0.3049, 0.4953

### Protanopia

75.9090, 0.4044, 0.4410

### Deuteranopia

75.7417, 0.3668, 0.3701



## Tritanopia

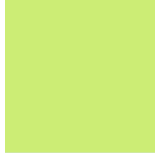
76.4761, 0.2607, 0.3099

# Trichromacy



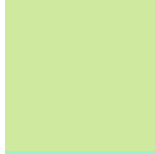
## Original Color

77.1610, 0.3049, 0.4953



## Protanomaly

74.6901, 0.3621, 0.4632



## Deuteranomaly

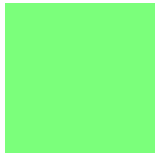
74.0464, 0.3414, 0.4136



## Tritanomaly

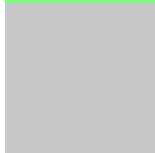
75.6904, 0.2774, 0.3737

# Monochromacy



## Original Color

77.1610, 0.3049, 0.4953



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

62.9356, 0.3099, 0.3896

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.1610, 0.3049, 0.4953 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(123, 255, 123)` looks like.

```
.text, #text, p{  
    color:rgb(123, 255, 123)  
}
```

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(123, 255, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 255, 123) }
```

## Border

The CSS property to change the border of an element to Yxy 77.1610, 0.3049, 0.4953 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(123, 255, 123) }
```

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

```
.border{ border-color:rgb(123, 255, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 255, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 255, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 255, 123);  
box-shadow:4px 4px 4px 4px rgb(123, 255,  
123) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.1610, 0.3049, 0.4953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 255, 123) }
```

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

```
.background{ background-color: rgb(123,  
255, 123) }
```

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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