

# Converting Colors

$Yxy(77.6966, 0.3193, 0.5137)$

Have a look what the booklet for  
Yxy(77.6966, 0.3193, 0.5137)  
contains.

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**Color**

**Yxy(77.7335, 0.3195, 0.5135)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88FF67
RGB	136, 255, 103
RGB Percent	53%, 100%, 40%
CMY	0.4665, 0.0000, 0.5962
CMYK	0.47, 0.00, 0.60, 0.00
HSL	107°, 100%, 70%
HSV	107°, 60%, 100%
XYZ	48.3658, 77.7335, 25.2804
YIQ	202.0910, -22.1320, -72.5000

# Conversions

## Conversions Part 2

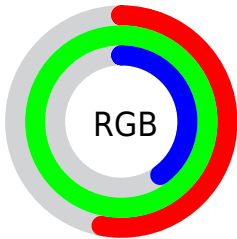
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 255, 222
Decimal	8978279
CIE <sub>Lab</sub>	90.66, -60.55, 60.97
CIE <sub>LCh</sub>	91, 85.929, 134.804
Yxy	77.7335, 0.3195, 0.5135
Android (android.graphics.Color)	4287168359 (0xFF88FF67)
YUV	202.0910, -48.8519, -57.9618
Hunter-Lab	88.1666, -56.3713, 44.7161

# Details

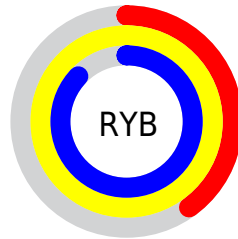
The Yxy color **77.7335, 0.3195, 0.5135** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **32.4359, 0.2888, 0.1767**, and the grayscale version is **59.4505, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.7244, 0.3302, 0.4376**, and **41.5462, 0.3130, 0.5604** is the 20% darker color. If you saturate the color by 10%, you get **75.7818, 0.3178, 0.5432**, and if you desaturate by 10%, it is **80.1589, 0.3201, 0.4806**.

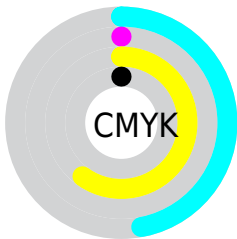
# Distribution



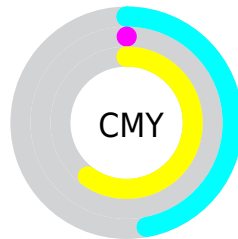
- Red (53%)
- Green (100%)
- Blue (40%)



- Red (40%)
- Yellow (100%)
- Blue (87%)



- Cyan (47%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.7335, 0.3195, 0.5135 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 77.7335, 0.3195, 0.5135 by changing the saturation by 10% instead.




 77.7335, 0.3195,  
0.5135

 77.7335, 0.3195,  
0.5135

487.2613, 0.3222,  
0.4234


 57.8551, 0.3171,  
0.5345


 130.1744, 0.3218,  
0.4818


 41.6922, 0.3132,  
0.5602


 163.5056, 0.3223,  
0.4695

 28.8603, 0.3068,  
0.5924


 202.0899, 0.3225,  
0.4590

 18.9752, 0.2958,  
0.6329

 246.3117, 0.3226,  
0.4500

 11.6523, 0.2771,  
0.6854

296.5553, 0.3226,  
0.4420

 6.5074, 0.2450,  
0.7550


353.2052, 0.3225,


 3.1560, 0.1806,


0.4351


0.8194


416.6457, 0.3224,  
0.4289


 1.2137, 0.0000,  
1.0000


 0.0729, 0.0000,  
1.0000


 77.7335, 0.3195,  
0.5135


 77.7335, 0.3195,  
0.5135


 75.7818, 0.3178,  
0.5432


 80.1589, 0.3201,  
0.4806


 74.2620, 0.3149,  
0.5674

 83.0769, 0.3198,  
0.4466


 73.1407, 0.3112,  
0.5844

 86.5172, 0.3186,  
0.4134

 72.3695, 0.3071,  
0.5941

 90.5043, 0.3169,  
0.3822

 72.3453, 0.3070,  
0.5945

 95.0610, 0.3149,  
0.3536

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.



77.7335, 0.4103, 0.5000



77.7335, 0.3195, 0.5135



77.7335, 0.2317, 0.4427

# Triad

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



77.7335, 0.3195, 0.5135



77.7335, 0.1589, 0.1944



77.7335, 0.4729, 0.3023

# Complementary

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



77.7335, 0.3195, 0.5135



32.4359, 0.2888, 0.1767

# 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.



77.7335, 0.3810, 0.2437



77.7335, 0.3195, 0.5135



77.7335, 0.2015, 0.1843

# Square

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



77.7335, 0.3195, 0.5135



77.7335, 0.1485, 0.2394



77.7335, 0.2784, 0.2021



77.7335, 0.5097, 0.3691



# Rectangle

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



77.7335, 0.3195, 0.5135



77.7335, 0.1873, 0.3658



77.7335, 0.2784, 0.2021



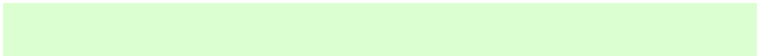
77.7335, 0.4466, 0.2815

# Sweetspot

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



77.7368, 0.3195, 0.5135



91.2014, 0.3166, 0.3774



73.1782, 0.4175, 0.4418



19.2544, 0.3172, 0.3861



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.



77.7368, 0.3195, 0.5135



75.3812, 0.3172, 0.5495



76.4013, 0.2874, 0.4738



20.3585, 0.3149, 0.3533



37.8545, 0.3078, 0.5938



3.7309, 0.3150, 0.5881



# Inverse Universe

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



32.4359, 0.2888, 0.1767



26.2348, 0.2817, 0.1528



35.8351, 0.3600, 0.2214



18.0893, 0.3103, 0.3053



10.2238, 0.2663, 0.1240

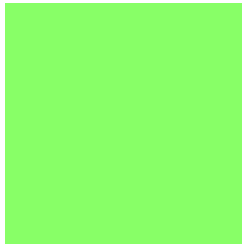


1.0425, 0.2728, 0.1276



# Previews

## White Background



This preview shows how the Yxy color 77.7335, 0.3195, 0.5135 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

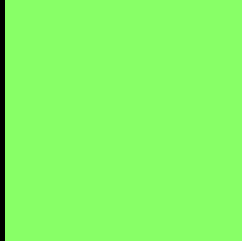
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.7335, 0.3195, 0.5135 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

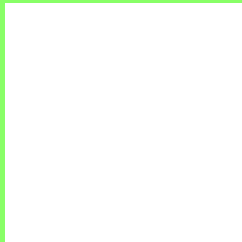
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.7335, 0.3195, 0.5135**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.7335, 0.3195, 0.5135.

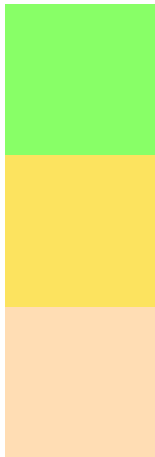


This preview shows how white text looks on a background with the Yxy color 77.7335, 0.3195, 0.5135.

# 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

77.7335, 0.3195, 0.5135

### Protanopia

76.4598, 0.4146, 0.4550

### Deuteranopia

76.2682, 0.3665, 0.3711



## Tritanopia

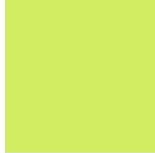
77.2533, 0.2643, 0.3101

# Trichromacy



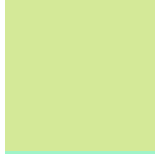
## Original Color

77.7335, 0.3195, 0.5135



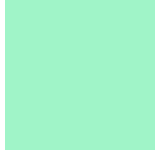
## Protanomaly

75.1519, 0.3758, 0.4782



## Deuteranomaly

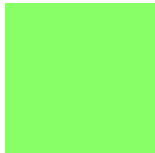
74.5419, 0.3494, 0.4204



## Tritanomaly

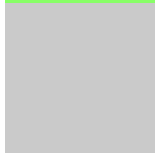
76.3451, 0.2864, 0.3818

# Monochromacy



## Original Color

77.7335, 0.3195, 0.5135



## Achromatopsia

59.0619, 0.3127, 0.3290



## Achromatomaly

63.9311, 0.3179, 0.3977

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.7335, 0.3195, 0.5135 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(136, 255, 103)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 103)  
}
```

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(136, 255, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 103) }
```

## Border

The CSS property to change the border of an element to Yxy 77.7335, 0.3195, 0.5135 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(136, 255, 103) }
```

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

```
.border{ border-color:rgb(136, 255, 103) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 255, 103)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 103);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
103) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.7335, 0.3195, 0.5135 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 103) }
```

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

```
.background{ background-color: rgb(136,  
255, 103) }
```

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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