

# Converting Colors

$Yxy(84.5519, 0.3295, 0.5491)$

Have a look what the booklet for  
Yxy(84.5519, 0.3295, 0.5491)  
contains.

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**Color**

**Yxy(77.2200, 0.3320, 0.5450)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89FF41
RGB	137, 255, 65
RGB Percent	54%, 100%, 25%
CMY	0.4624, 0.0000, 0.7450
CMYK	0.46, 0.00, 0.75, 0.00
HSL	97°, 100%, 63%
HSV	97°, 75%, 100%
XYZ	47.0404, 77.2200, 17.4276
YIQ	198.0580, -9.3380, -84.1060

# Conversions

## Conversions Part 2

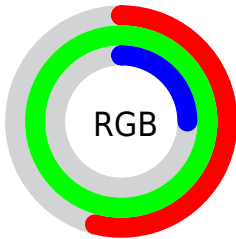
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">65, 255, 183</a>
Decimal	<a href="#">9043777</a>
CIELab	<a href="#">90.42, -63.22, 74.90</a>
CIELCh	<a href="#">90, 98.011, 130.166</a>
Yxy	<a href="#">77.2200, 0.3320, 0.5450</a>
Android (android.graphics.Color)	<a href="#">4287233857 (0xFF89FF41)</a>
YUV	<a href="#">198.0580, -65.5976, -53.5479</a>
Hunter-Lab	<a href="#">87.8749, -58.2280, 49.7539</a>

# Details

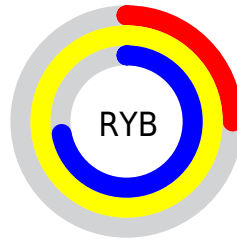
The Yxy color **77.2200, 0.3320, 0.5450** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **21.0604, 0.2511, 0.1341**, and the grayscale version is **56.9337, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0064, 0.3481, 0.4716**, and **41.3102, 0.3201, 0.5841** is the 20% darker color. If you saturate the color by 10%, you get **75.7496, 0.3286, 0.5650**, and if you desaturate by 10%, it is **79.0265, 0.3335, 0.5194**.

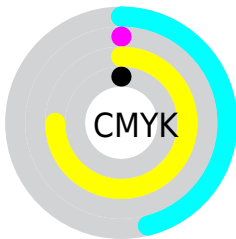
# Distribution



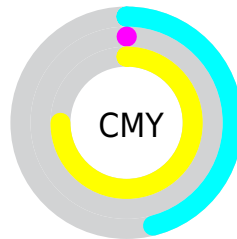
- Red (54%)
- Green (100%)
- Blue (25%)



- Red (25%)
- Yellow (100%)
- Blue (72%)



- Cyan (46%)
- Magenta (0%)
- Yellow (75%)
- Black (0%)




- Cyan (46%)
- Magenta (0%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.2200, 0.3320, 0.5450 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 77.2200, 0.3320, 0.5450 by changing the saturation by 10% instead.




 77.2200, 0.3320,  
0.5450

 77.2200, 0.3320,  
0.5450


485.5138, 0.3321,  
0.4410


 57.4335, 0.3292,  
0.5682

 129.4500, 0.3342,  
0.5090


 41.3533, 0.3242,  
0.5960

 162.6622, 0.3344,  
0.4949


 28.5953, 0.3156,  
0.6293


 201.1185, 0.3343,  
0.4828

 18.7749, 0.3009,  
0.6691

 245.2031, 0.3340,  
0.4722

 11.5077, 0.2781,  
0.7219

 295.3006, 0.3336,  
0.4629

 6.4094, 0.2333,  
0.7667


351.7953, 0.3332,


 3.0956, 0.1636,

0.4548


0.8364

415.0715, 0.3326,  
0.4475

 1.1818, 0.0000,  
1.0000


 0.0468, 0.0000,  
1.0000


 77.2200, 0.3320,  
0.5450


 77.2200, 0.3320,  
0.5450

 75.7496, 0.3286,  
0.5650


 79.0265, 0.3335,  
0.5194

 74.5773, 0.3236,  
0.5786

 81.1832, 0.3333,  
0.4900

 74.0429, 0.3205,  
0.5837

 83.7144, 0.3314,  
0.4585

 86.6395, 0.3282,  
0.4266

■ 89.9763, 0.3242,  
0.3958

■ 93.7414, 0.3197,  
0.3668

■ 97.9504, 0.3149,  
0.3402

■ 99.9965, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.2200, 0.4314, 0.5094



77.2200, 0.3320, 0.5450



77.2200, 0.2328, 0.4802

# Triad

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



77.2200, 0.3320, 0.5450



77.2200, 0.1391, 0.1834



77.2200, 0.4823, 0.2862

# Complementary

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



77.2200, 0.3320, 0.5450



21.0604, 0.2511, 0.1341

# 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.



77.2200, 0.3707, 0.2252



77.2200, 0.3320, 0.5450



77.2200, 0.1791, 0.1686

# Square

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



77.2200, 0.3320, 0.5450



77.2200, 0.1325, 0.2379



77.2200, 0.2573, 0.1838



77.2200, 0.5338, 0.3568



# Rectangle

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



77.2200, 0.3320, 0.5450



77.2200, 0.1808, 0.3912



77.2200, 0.2573, 0.1838



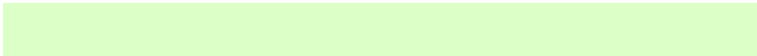
77.2200, 0.4492, 0.2643

# Sweetspot

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



77.2233, 0.3320, 0.5450



90.8827, 0.3231, 0.3883



55.1657, 0.4654, 0.4355



19.2438, 0.3243, 0.3964



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.



77.2233, 0.3320, 0.5450



75.1908, 0.3265, 0.5719



73.3318, 0.2958, 0.5468



20.5038, 0.3173, 0.3532



38.7696, 0.3217, 0.5828



3.8351, 0.3304, 0.5759



# Inverse Universe

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



21.0604, 0.2511, 0.1341



16.4781, 0.2364, 0.1119



30.9146, 0.3429, 0.1833



17.9361, 0.3077, 0.3051



7.6736, 0.2276, 0.1027

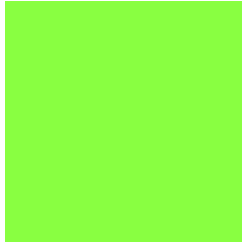


0.8098, 0.2381, 0.1085



# Previews

## White Background



This preview shows how the Yxy color 77.2200, 0.3320, 0.5450 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

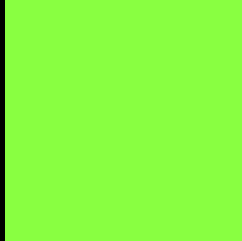
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.2200, 0.3320, 0.5450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

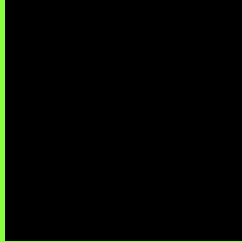
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

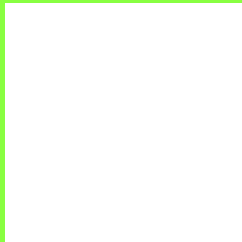
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.2200, 0.3320, 0.5450**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.2200, 0.3320, 0.5450.

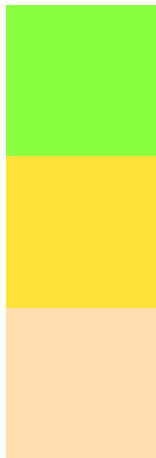


This preview shows how white text looks on a background with the Yxy color 77.2200, 0.3320, 0.5450.

# 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

77.2200, 0.3320, 0.5450

### Protanopia

75.7690, 0.4313, 0.4747

### Deuteranopia

76.0680, 0.3701, 0.3762



## Tritanopia

76.5590, 0.2637, 0.3089

# Trichromacy



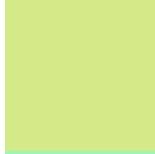
## Original Color

77.2200, 0.3320, 0.5450



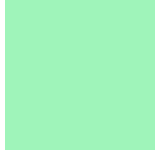
## Protanomaly

74.7542, 0.3904, 0.5033



## Deuteranomaly

74.0241, 0.3596, 0.4388



## Tritanomaly

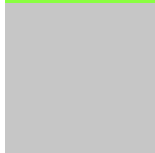
75.6175, 0.2933, 0.3996

# Monochromacy



## Original Color

77.2200, 0.3320, 0.5450



## Achromatopsia

56.4712, 0.3127, 0.3290



## Achromatomaly

62.0952, 0.3269, 0.4164

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.2200, 0.3320, 0.5450 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(137, 255, 65)` looks like.

```
.text, #text, p{  
    color:rgb(137, 255, 65)  
}
```

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(137, 255, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 255, 65) }
```

## Border

The CSS property to change the border of an element to Yxy 77.2200, 0.3320, 0.5450 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(137, 255, 65) }
```

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

```
.border{ border-color:rgb(137, 255, 65) }
```

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

Here you see how a box with a 4 pixel rgb(137, 255, 65) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 255, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 255, 65);  
box-shadow:4px 4px 4px 4px rgb(137, 255,  
65) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.2200, 0.3320, 0.5450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 255, 65) }
```

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

```
.background{ background-color: rgb(137,  
255, 65) }
```

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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