

# Converting Colors

$Y_{xy}(72.6277, 0.3398, 0.5129)$

Have a look what the booklet for  
Yxy(72.6277, 0.3398, 0.5129)  
contains.

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**Color**

**Yxy(72.5907, 0.3394, 0.5127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9DF459
RGB	157, 244, 89
RGB Percent	62%, 96%, 35%
CMY	0.3845, 0.0431, 0.6508
CMYK	0.36, 0.00, 0.64, 0.04
HSL	94°, 88%, 65%
HSV	94°, 64%, 96%
XYZ	48.0540, 72.5907, 20.9404
YIQ	200.3170, -2.0970, -66.6490

# Conversions

## Conversions Part 2

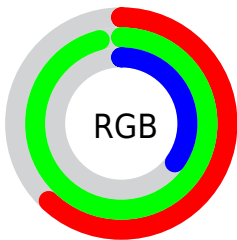
Format	Color
<a href="#">RYB</a>	<a href="#">89, 244, 176</a>
Decimal	<a href="#">10351705</a>
CIELab	<a href="#">88.25, -51.04, 64.30</a>
CIElCh	<a href="#">88, 82.096, 128.442</a>
Yxy	<a href="#">72.5907, 0.3394, 0.5127</a>
Android (android.graphics.Color)	<a href="#">4288541785</a> ( <a href="#">0xFF9DF459</a> )
YUV	<a href="#">200.3170, -54.8793, -37.9890</a>
Hunter-Lab	<a href="#">85.2002, -48.4240, 45.0679</a>

# Details

The Yxy color **72.5907, 0.3394, 0.5127** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **22.9283, 0.2543, 0.1541**, and the grayscale version is **58.3098, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.1633, 0.3503, 0.4464**, and **38.2724, 0.3370, 0.5580** is the 20% darker color. If you saturate the color by 10%, you get **70.9474, 0.3386, 0.5379**, and if you desaturate by 10%, it is **74.5308, 0.3382, 0.4839**.

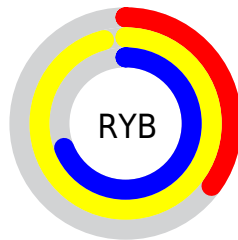
# Distribution



Red (62%)

Green (96%)

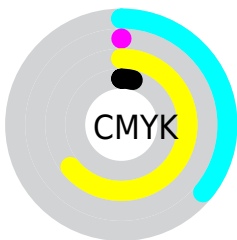
Blue (35%)



Red (35%)

Yellow (96%)

Blue (69%)

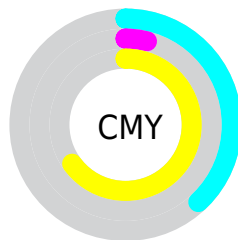


Cyan (36%)

Magenta (0%)

Yellow (64%)

Black (4%)



Cyan (38%)

Magenta (4%)


Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.5907, 0.3394, 0.5127 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 72.5907, 0.3394, 0.5127 by changing the saturation by 10% instead.





 72.5907, 0.3394,  
0.5127


 72.5907, 0.3394,  
0.5127


469.5950, 0.3333,  
0.4235


 53.6414, 0.3387,  
0.5332


 122.8960, 0.3388,  
0.4815


 38.3150, 0.3367,  
0.5581


 155.0207, 0.3382,  
0.4693

 26.2273, 0.3323,  
0.5887


 192.3060, 0.3374,  
0.4589

 16.9937, 0.3232,  
0.6265

 235.1363, 0.3365,  
0.4499

 10.2300, 0.3099,  
0.6824

283.8959, 0.3357,  
0.4421

 5.5517, 0.2719,  
0.7281

338.9693, 0.3349,

 2.5745, 0.2076,

0.4351

0.7924

400.7409, 0.3341,  
0.4290

■ 0.9139, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 72.5907, 0.3394,  
0.5127

■ 72.5907, 0.3394,  
0.5127

■ 70.9474, 0.3386,  
0.5379

■ 74.5308, 0.3382,  
0.4839

■ 69.5724, 0.3358,  
0.5579


■ 76.7752, 0.3353,  
0.4533


■ 68.4464, 0.3311,  
0.5719

■ 79.3425, 0.3311,  
0.4223


■ 67.8293, 0.3274,  
0.5782

■ 82.2469, 0.3260,  
0.3922

 85.5017, 0.3205,  
0.3638

 89.1193, 0.3147,  
0.3376

 92.7945, 0.3119,  
0.3184

 93.1878, 0.3132,  
0.3185

# Harmonies

## Analogous

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



72.5907, 0.4262, 0.4865



72.5907, 0.3394, 0.5127



72.5907, 0.2504, 0.4606

# Triad

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



72.5907, 0.3394, 0.5127



72.5907, 0.1568, 0.2032



72.5907, 0.4537, 0.2900

# Complementary

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



72.5907, 0.3394, 0.5127



22.9283, 0.2543, 0.1541

# 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.



72.5907, 0.3576, 0.2350



72.5907, 0.3394, 0.5127



72.5907, 0.1920, 0.1865

# Square

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



72.5907, 0.3394, 0.5127



72.5907, 0.1532, 0.2562



72.5907, 0.2605, 0.1985



72.5907, 0.5035, 0.3547



# Rectangle

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



72.5907, 0.3394, 0.5127



72.5907, 0.2021, 0.3894



72.5907, 0.2605, 0.1985



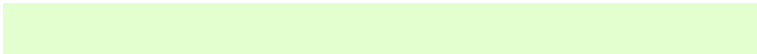
72.5907, 0.4247, 0.2701

# Sweetspot

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



72.5938, 0.3394, 0.5127



92.4613, 0.3236, 0.3793



50.3374, 0.4490, 0.4161



19.5745, 0.3252, 0.3875



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.



72.5938, 0.3394, 0.5127



77.9817, 0.3381, 0.5438



67.6936, 0.3003, 0.5263



18.8272, 0.3182, 0.3530



36.9558, 0.3286, 0.5773



3.3078, 0.3383, 0.5696



# Inverse Universe

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



22.9283, 0.2543, 0.1541



19.1331, 0.2392, 0.1260



32.4600, 0.3271, 0.1894



16.3859, 0.3068, 0.3052



6.5292, 0.2148, 0.0957

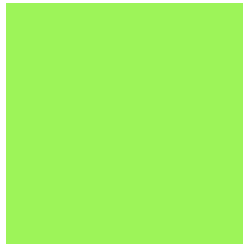


0.6346, 0.2275, 0.1027



# Previews

## White Background



This preview shows how the Yxy color 72.5907, 0.3394, 0.5127 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 72.5907, 0.3394, 0.5127 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

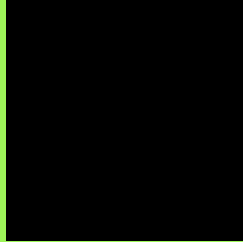
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

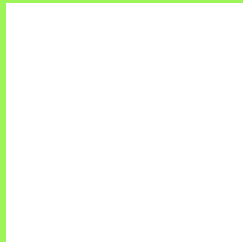
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 72.5907, 0.3394, 0.5127**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.5907, 0.3394, 0.5127.



This preview shows how white text looks on a background with the Yxy color 72.5907, 0.3394, 0.5127.

# 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

72.5907, 0.3394, 0.5127

### Protanopia

71.9149, 0.4199, 0.4618

### Deuteranopia

71.7875, 0.3855, 0.3877



## Tritanopia

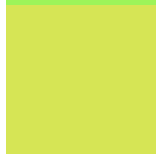
71.9055, 0.2710, 0.3076

# Trichromacy



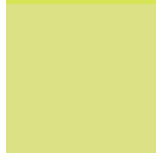
## Original Color

72.5907, 0.3394, 0.5127



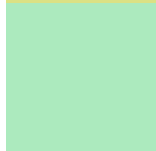
## Protanomaly

70.9906, 0.3887, 0.4808



## Deuteranomaly

70.5764, 0.3696, 0.4326



## Tritanomaly

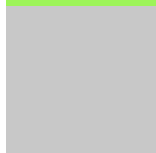
71.3340, 0.2986, 0.3823

# Monochromacy



## Original Color

72.5907, 0.3394, 0.5127



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

61.8401, 0.3268, 0.3989

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.5907, 0.3394, 0.5127 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(157, 244, 89)` looks like.

```
.text, #text, p{  
    color:rgb(157, 244, 89)  
}
```

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(157, 244, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 244, 89) }
```

## Border

The CSS property to change the border of an element to Yxy 72.5907, 0.3394, 0.5127 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(157, 244, 89) }
```

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

```
.border{ border-color:rgb(157, 244, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 244, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 244, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 244, 89);  
box-shadow:4px 4px 4px 4px rgb(157, 244,  
89) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.5907, 0.3394, 0.5127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 244, 89) }
```

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

```
.background{ background-color: rgb(157,  
244, 89) }
```

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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