

# Converting Colors

$Y_{xy}(77.8740, 0.3473, 0.5624)$

Have a look what the booklet for  
Yxy(77.8740, 0.3473, 0.5624)  
contains.

<b>Yxy(77.9096, 0.3475, 0.5623)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**Yxy(77.9096, 0.3475, 0.5623)**

# Conversions

## Conversions Part 1

Format	Color
Hex	95FF00
RGB	149, 255, 0
RGB Percent	58%, 100%, 0%
CMY	0.4159, 0.0000, 1.0000
CMYK	0.42, 0.00, 1.00, 0.00
HSL	85°, 100%, 50%
HSV	85°, 100%, 100%
XYZ	48.1479, 77.9096, 12.4977
YIQ	194.2360, 18.6790, -101.7770

# Conversions

## Conversions Part 2

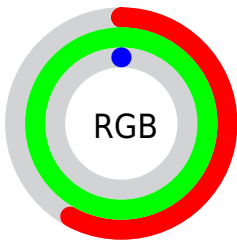
Format	Color
<b>RYB</b>	0, 255, 106
Decimal	9830144
CIELab	90.74, -61.50, 86.84
CIELCh	91, 106.407, 125.307
Yxy	77.9096, 0.3475, 0.5623
Android (android.graphics.Color)	4288020224 (0xFF95FF00)
YUV	194.2360, -95.7583, -39.6720
Hunter-Lab	88.2664, -57.0973, 53.3916

# Details

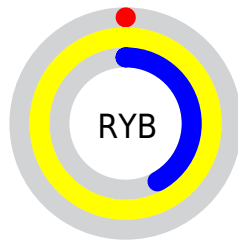
The Yxy color **77.9096, 0.3475, 0.5623** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle saturated chartreuse. A complement of this color would be **10.2870, 0.1852, 0.0794**, and the grayscale version is **54.6579, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.0298, 0.3695, 0.4939**, and **41.8638, 0.3275, 0.5782** is the 20% darker color. If you saturate the color by 10%, you get **77.9053, 0.3475, 0.5623**, and if you desaturate by 10%, it is **79.0206, 0.3523, 0.5529**.

# Distribution



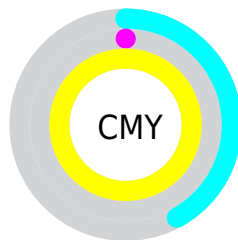
- Red (58%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (42%)



- Cyan (42%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (42%)
- Magenta (0%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.9096, 0.3475, 0.5623 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 77.9096, 0.3475, 0.5623 by changing the saturation by 10% instead.




 77.9096, 0.3475,  
0.5623

 77.9096, 0.3475,  
0.5623


 487.8598, 0.3436,  
0.4532

 57.9997, 0.3446,  
0.5852


 130.4227, 0.3491,  
0.5256


 41.8084, 0.3391,  
0.6118


 163.7947, 0.3489,  
0.5109


 28.9513, 0.3293,  
0.6423


 202.4228, 0.3483,  
0.4981

 19.0440, 0.3155,  
0.6829

 246.6915, 0.3475,  
0.4868

 11.7021, 0.2850,  
0.7150

 296.9852, 0.3466,  
0.4769

 6.5412, 0.2417,  
0.7583


 353.6882, 0.3456,


 3.1768, 0.1765,


0.4681


0.8235


417.1849, 0.3446,  
0.4602


 1.2247, 0.0000,  
1.0000


 0.0818, 0.0000,  
1.0000

 77.9096, 0.3475,  
0.5623


 77.9096, 0.3475,  
0.5623

 77.9053, 0.3475,  
0.5623

 79.0206, 0.3523,  
0.5529

 80.3233, 0.3552,  
0.5386

 81.8445, 0.3556,  
0.5190

 83.6041, 0.3537,  
0.4950

■ 85.6188, 0.3496,  
0.4679

■ 87.9036, 0.3438,  
0.4391

■ 90.4721, 0.3368,  
0.4099

■ 93.3367, 0.3290,  
0.3813

■ 96.5090, 0.3209,  
0.3542

# Harmonies

## Analogous

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



77.9096, 0.4513, 0.5066



77.9096, 0.3475, 0.5623



77.9096, 0.2410, 0.5145

# Triad

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



77.9096, 0.3475, 0.5623



77.9096, 0.1259, 0.1797



77.9096, 0.4792, 0.2708

# Complementary

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



77.9096, 0.3475, 0.5623



10.2870, 0.1852, 0.0794

# 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.



77.9096, 0.3533, 0.2097



77.9096, 0.3475, 0.5623



77.9096, 0.1615, 0.1594

# Square

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



77.9096, 0.3475, 0.5623



77.9096, 0.1240, 0.2443



77.9096, 0.2365, 0.1707



77.9096, 0.5472, 0.3427



# Rectangle

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



77.9096, 0.3475, 0.5623



77.9096, 0.1824, 0.4211



77.9096, 0.2365, 0.1707



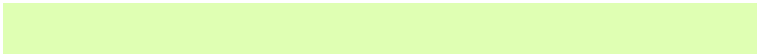
77.9096, 0.4403, 0.2487

# Sweetspot

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



77.9053, 0.3475, 0.5623



90.4721, 0.3368, 0.4099



30.7627, 0.5730, 0.3833



19.1254, 0.3398, 0.4221



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.



77.9053, 0.3475, 0.5623



71.7331, 0.3018, 0.5985



20.6923, 0.3205, 0.3529



40.7969, 0.3486, 0.5614



4.0364, 0.3564, 0.5552

# Inverse Universe

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



10.2870, 0.1852, 0.0794



23.9604, 0.2954, 0.1401



17.7467, 0.3044, 0.3049



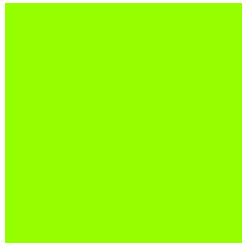
5.4579, 0.1868, 0.0803



0.5937, 0.1994, 0.0872

# Previews

## White Background



This preview shows how the Yxy color 77.9096, 0.3475, 0.5623 looks on a white background.

## Color Contrast Check

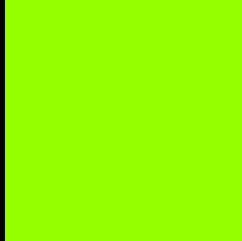
Large Text (above 18pt) WCAG AA × Fail

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 77.9096, 0.3475, 0.5623 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

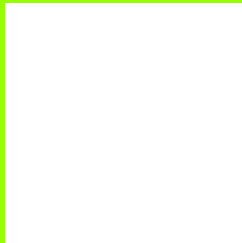
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.9096, 0.3475, 0.5623**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.9096, 0.3475, 0.5623.



This preview shows how white text looks on a background with the Yxy color 77.9096, 0.3475, 0.5623.



# 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

77.9096, 0.3475, 0.5623

### Protanopia

77.0131, 0.4317, 0.4773

### Deuteranopia

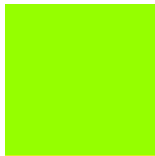
76.6769, 0.3684, 0.3751



## Tritanopia

77.4917, 0.2679, 0.3091

# Trichromacy



## Original Color

77.9096, 0.3475, 0.5623



## Protanomaly

75.8635, 0.3997, 0.5123



## Deuteranomaly

74.6368, 0.3744, 0.4602



## Tritanomaly

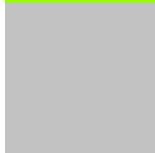
75.7450, 0.3123, 0.4283

# Monochromacy



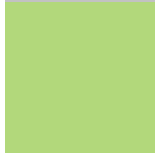
## Original Color

77.9096, 0.3475, 0.5623



## Achromatopsia

53.9479, 0.3127, 0.3290



## Achromatomaly

60.0068, 0.3460, 0.4466

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.9096, 0.3475, 0.5623 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(149, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(149, 255, 0)  
}
```

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(149, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(149, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 77.9096, 0.3475, 0.5623 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(149, 255, 0) }
```

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

```
.border{ border-color:rgb(149, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(149, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(149, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(149, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(149, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 77.9096, 0.3475, 0.5623 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(149, 255, 0) }
```

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

```
.background{ background-color: rgb(149,  
255, 0) }
```

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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