

# Converting Colors

$Y_{xy}(77.2656, 0.3433, 0.5656)$

Have a look what the booklet for  
Yxy(77.2656, 0.3433, 0.5656)  
contains.

<b>Yxy(77.2708, 0.3434, 0.5656)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	22
<b>Color Blindness Simulation</b> .....	25
<b>CSS Examples</b> .....	28

**Color**

**Yxy(77.2708, 0.3434, 0.5656)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8EFF00
RGB	142, 255, 0
RGB Percent	56%, 100%, 0%
CMY	0.4431, 0.0000, 1.0000
CMYK	0.44, 0.00, 1.00, 0.00
HSL	87°, 100%, 50%
HSV	87°, 100%, 100%
XYZ	46.9144, 77.2708, 12.4322
YIQ	192.1430, 14.5070, -103.2610

# Conversions

## Conversions Part 2

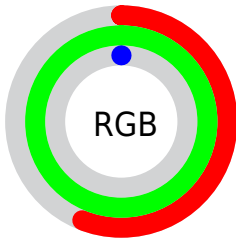
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 113
Decimal	9371392
CIELab	90.45, -63.67, 86.50
CIELCh	90, 107.408, 126.356
Yxy	77.2708, 0.3434, 0.5656
Android (android.graphics.Color)	4287561472 (0xFF8EFF00)
YUV	192.1430, -94.7265, -43.9754
Hunter-Lab	87.9038, -58.5659, 53.1473

# Details

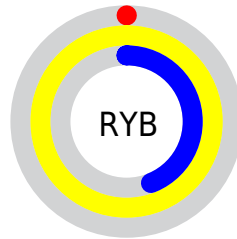
The Yxy color **77.2708, 0.3434, 0.5656** is a dark color, and the websafe version is hex **99FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **10.7304, 0.1898, 0.0819**, and the grayscale version is **53.3593, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1477, 0.3657, 0.4971**, and **41.5103, 0.3228, 0.5819** is the 20% darker color. If you saturate the color by 10%, you get **77.2711, 0.3434, 0.5656**, and if you desaturate by 10%, it is **78.3943, 0.3484, 0.5559**.

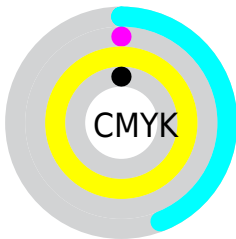
# Distribution



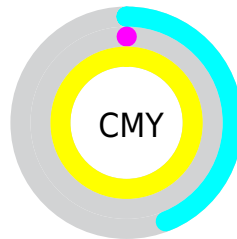
- Red (56%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (44%)



- Cyan (44%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (44%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.2708, 0.3434, 0.5656 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 77.2708, 0.3434, 0.5656 by changing the saturation by 10% instead.




 77.2708, 0.3434,  
0.5656


 77.2708, 0.3434,  
0.5656


485.6868, 0.3415,  
0.4543

 57.4752, 0.3400,  
0.5891

 129.5217, 0.3457,  
0.5281


 41.3869, 0.3340,  
0.6164


 162.7457, 0.3458,  
0.5130


 28.6215, 0.3234,  
0.6480


 201.2146, 0.3454,  
0.4999

 18.7947, 0.3086,  
0.6902

 245.3129, 0.3448,  
0.4885

 11.5220, 0.2767,  
0.7233

 295.4248, 0.3441,  
0.4784

 6.4191, 0.2316,  
0.7684


 351.9349, 0.3432,


 3.1016, 0.1614,


0.4694


0.8386


415.2274, 0.3424,  
0.4614

 1.1850, 0.0000,  
1.0000


 0.0494, 0.0000,  
1.0000


 77.2708, 0.3434,  
0.5656


 77.2708, 0.3434,  
0.5656


 77.2711, 0.3434,  
0.5656

 78.3943, 0.3484,  
0.5559


 79.7159, 0.3516,  
0.5412


 81.2676, 0.3524,  
0.5211

 83.0697, 0.3509,  
0.4966

 85.1395, 0.3473,  
0.4690

 87.4924, 0.3419,  
0.4397

 90.1425, 0.3354,  
0.4102

 93.1026, 0.3281,  
0.3815

 96.3847, 0.3204,  
0.3543

# Harmonies

## Analogous

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



77.2708, 0.4486, 0.5107



77.2708, 0.3434, 0.5656



77.2708, 0.2364, 0.5131

# Triad

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



77.2708, 0.3434, 0.5656



77.2708, 0.1251, 0.1769



77.2708, 0.4850, 0.2724

# Complementary

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



77.2708, 0.3434, 0.5656



10.7304, 0.1898, 0.0819

# 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.



77.2708, 0.3583, 0.2104



77.2708, 0.3434, 0.5656



77.2708, 0.1620, 0.1579

# Square

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



77.2708, 0.3434, 0.5656



77.2708, 0.1218, 0.2399



77.2708, 0.2391, 0.1703



77.2708, 0.5504, 0.3449



# Rectangle

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



77.2708, 0.3434, 0.5656



77.2708, 0.1783, 0.4167



77.2708, 0.2391, 0.1703



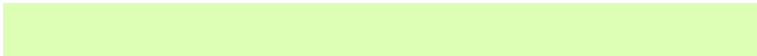
77.2708, 0.4462, 0.2500

# Sweetspot

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



77.2711, 0.3434, 0.5656



90.1425, 0.3354, 0.4102



32.5201, 0.5634, 0.3909



19.0471, 0.3383, 0.4226



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.



77.2711, 0.3434, 0.5656



71.6392, 0.3010, 0.5992



20.6669, 0.3200, 0.3530



40.4658, 0.3445, 0.5647



4.0048, 0.3526, 0.5582

# Inverse Universe

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



10.7304, 0.1898, 0.0819



25.3971, 0.3039, 0.1448



17.7716, 0.3048, 0.3049



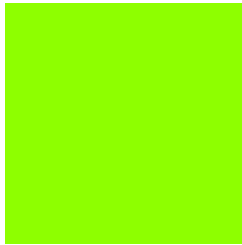
5.6921, 0.1915, 0.0829



0.6177, 0.2041, 0.0898

# Previews

## White Background



This preview shows how the Yxy color 77.2708, 0.3434, 0.5656 looks on a white background.

## Color Contrast Check

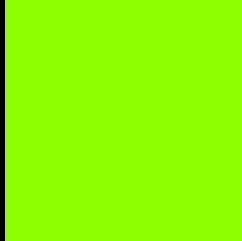
Large Text (above 18pt) WCAG AA × Fail

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 77.2708, 0.3434, 0.5656 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

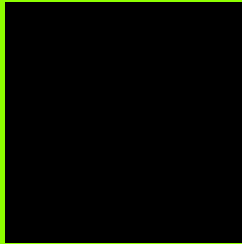
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

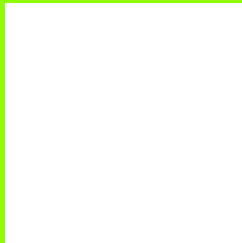
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.2708, 0.3434, 0.5656**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.2708, 0.3434, 0.5656.



This preview shows how white text looks on a background with the Yxy color 77.2708, 0.3434, 0.5656.



# 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

77.2708, 0.3434, 0.5656

### Protanopia

76.2523, 0.4388, 0.4860

### Deuteranopia

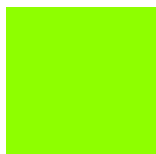
76.0289, 0.3708, 0.3772



## Tritanopia

76.9023, 0.2652, 0.3090

# Trichromacy



## Original Color

77.2708, 0.3434, 0.5656



## Protanomaly

74.8936, 0.4013, 0.5174



## Deuteranomaly

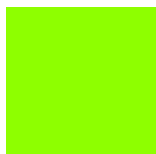
73.7217, 0.3744, 0.4620



## Tritanomaly

75.0965, 0.3086, 0.4294

# Monochromacy



## Original Color

77.2708, 0.3434, 0.5656



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

59.0047, 0.3438, 0.4481

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.2708, 0.3434, 0.5656 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(142, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(142, 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(142, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(142, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 77.2708, 0.3434, 0.5656 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(142, 255, 0) }
```

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

```
.border{ border-color:rgb(142, 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(142, 255, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(142, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(142, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(142, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 77.2708, 0.3434, 0.5656 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(142, 255, 0) }
```

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

```
.background{ background-color: rgb(142,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**



**Follow me  
on Twitter!**

@ConvertingColor