

# Converting Colors

$Y_{xy}(77.5588, 0.3419, 0.5579)$

Have a look what the booklet for  
Yxy(77.5588, 0.3419, 0.5579)  
contains.

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**Color**

**Yxy(77.5591, 0.3420, 0.5580)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90FF21
RGB	144, 255, 33
RGB Percent	56%, 100%, 13%
CMY	0.4353, 0.0000, 0.8708
CMYK	0.44, 0.00, 0.87, 0.00
HSL	90°, 100%, 56%
HSV	90°, 87%, 100%
XYZ	47.5362, 77.5591, 13.8995
YIQ	196.5030, 5.1060, -92.5740

# Conversions

## Conversions Part 2

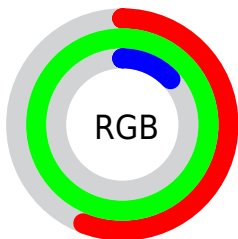
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	33, 255, 144
Decimal	9502497
CIE Lab	90.58, -62.50, 83.05
CIE LCh	91, 103.944, 126.964
Yxy	77.5591, 0.3420, 0.5580
Android (android.graphics.Color)	4287692577 (0xFF90FF21)
YUV	196.5030, -80.6070, -46.0451
Hunter-Lab	88.0676, -57.7695, 52.2898

# Details

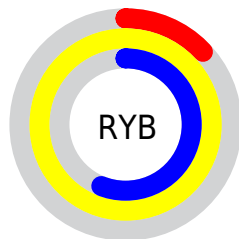
The Yxy color **77.5591, 0.3420, 0.5580** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle washed chartreuse. A complement of this color would be **14.2302, 0.2148, 0.1016**, and the grayscale version is **56.0100, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.4986, 0.3621, 0.4880**, and **41.6380, 0.3245, 0.5805** is the 20% darker color. If you saturate the color by 10%, you get **76.3823, 0.3369, 0.5693**, and if you desaturate by 10%, it is **78.9734, 0.3451, 0.5409**.

# Distribution



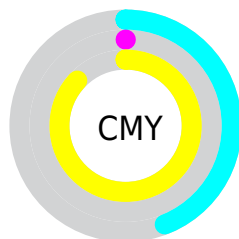
- Red (56%)
- Green (100%)
- Blue (13%)



- Red (13%)
- Yellow (100%)
- Blue (56%)



- Cyan (44%)
- Magenta (0%)
- Yellow (87%)
- Black (0%)




- Cyan (44%)
- Magenta (0%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.5591, 0.3420, 0.5580 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 77.5591, 0.3420, 0.5580 by changing the saturation by 10% instead.





 77.5591, 0.3420,  
0.5580


 77.5591, 0.3420,  
0.5580

486.6682, 0.3396,  
0.4497


 57.7119, 0.3391,  
0.5812


 129.9284, 0.3439,  
0.5212

 41.5770, 0.3337,  
0.6085


 163.2193, 0.3438,  
0.5066

 28.7703, 0.3242,  
0.6402


 201.7601, 0.3434,  
0.4939

 18.9071, 0.3094,  
0.6802

 245.9354, 0.3428,  
0.4828

 11.6032, 0.2811,  
0.7189

 296.1294, 0.3421,  
0.4730

 6.4741, 0.2369,  
0.7631


352.7266, 0.3413,


 3.1354, 0.1694,


0.4643


0.8306


416.1114, 0.3405,  
0.4566

 1.2028, 0.0000,  
1.0000


 0.0640, 0.0000,  
1.0000


 77.5591, 0.3420,  
0.5580


 77.5591, 0.3420,  
0.5580


 76.3823, 0.3369,  
0.5693


 78.9734, 0.3451,  
0.5409


 76.0729, 0.3353,  
0.5720


 80.6497, 0.3460,  
0.5184


 82.6091, 0.3446,  
0.4917

 84.8692, 0.3414,  
0.4625

 87.4463, 0.3366,  
0.4323

 90.3550, 0.3307,  
0.4023

 93.6090, 0.3243,  
0.3736

 97.2212, 0.3175,  
0.3467

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.



77.5591, 0.4447, 0.5086



77.5591, 0.3420, 0.5580



77.5591, 0.2376, 0.5036

# Triad

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



77.5591, 0.3420, 0.5580



77.5591, 0.1297, 0.1803



77.5591, 0.4815, 0.2758

# Complementary

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



77.5591, 0.3420, 0.5580



14.2302, 0.2148, 0.1016

# 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.



77.5591, 0.3597, 0.2146



77.5591, 0.3420, 0.5580



77.5591, 0.1669, 0.1619

# Square

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



77.5591, 0.3420, 0.5580



77.5591, 0.1261, 0.2414



77.5591, 0.2434, 0.1746



77.5591, 0.5438, 0.3475



# Rectangle

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



77.5591, 0.3420, 0.5580



77.5591, 0.1811, 0.4107



77.5591, 0.2434, 0.1746



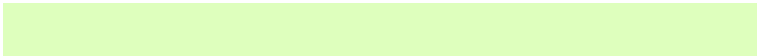
77.5591, 0.4444, 0.2537

# Sweetspot

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



77.5593, 0.3420, 0.5580



90.6883, 0.3301, 0.3991



40.2069, 0.5216, 0.4117



19.1844, 0.3322, 0.4094



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.



77.5593, 0.3420, 0.5580



76.0729, 0.3353, 0.5720



72.0166, 0.3010, 0.5893



20.6144, 0.3192, 0.3530



39.8385, 0.3365, 0.5711



3.9439, 0.3450, 0.5643



# Inverse Universe

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



14.2302, 0.2148, 0.1016



11.7681, 0.2004, 0.0878



28.8701, 0.3171, 0.1565



17.8238, 0.3057, 0.3050



6.2378, 0.2021, 0.0887

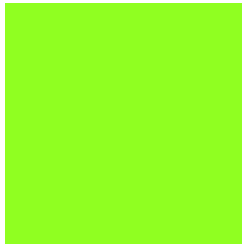


0.6723, 0.2143, 0.0954



# Previews

## White Background



This preview shows how the Yxy color 77.5591, 0.3420, 0.5580 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

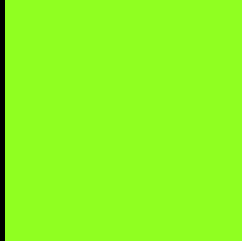
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.5591, 0.3420, 0.5580 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

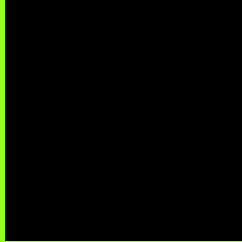
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

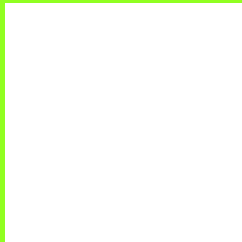
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.5591, 0.3420, 0.5580**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.5591, 0.3420, 0.5580.



This preview shows how white text looks on a background with the Yxy color 77.5591, 0.3420, 0.5580.

# 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

77.5591, 0.3420, 0.5580

### Protanopia

76.3514, 0.4358, 0.4816

### Deuteranopia

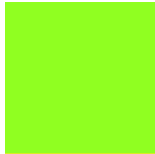
76.0680, 0.3701, 0.3762



## Tritanopia

77.1355, 0.2663, 0.3090

# Trichromacy



## Original Color

77.5591, 0.3420, 0.5580



## Protanomaly

75.1490, 0.3990, 0.5114



## Deuteranomaly

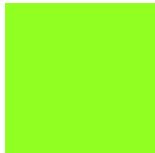
74.1550, 0.3687, 0.4501



## Tritanomaly

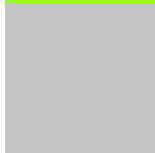
75.7567, 0.3033, 0.4140

# Monochromacy



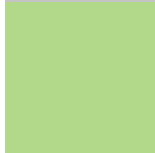
## Original Color

77.5591, 0.3420, 0.5580



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

60.7790, 0.3363, 0.4306

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.5591, 0.3420, 0.5580 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(144, 255, 33)` looks like.

```
.text, #text, p{  
    color:rgb(144, 255, 33)  
}
```

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(144, 255, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 255, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 77.5591, 0.3420, 0.5580 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(144, 255, 33) }
```

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

```
.border{ border-color:rgb(144, 255, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 255, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 255, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 255, 33);  
box-shadow:4px 4px 4px 4px rgb(144, 255,  
33) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.5591, 0.3420, 0.5580 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 255, 33) }
```

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

```
.background{ background-color: rgb(144,  
255, 33) }
```

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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