

# Converting Colors

$Y_{xy}(75.7375, 0.3327, 0.5735)$

Have a look what the booklet for  
Yxy(75.7375, 0.3327, 0.5735)  
contains.

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**Color**

**Yxy(75.7375, 0.3327, 0.5735)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BFF03
RGB	123, 255, 3
RGB Percent	48%, 100%, 1%
CMY	0.5179, 0.0000, 0.9883
CMYK	0.52, 0.00, 0.99, 0.00
HSL	91°, 100%, 51%
HSV	91°, 99%, 100%
XYZ	43.9370, 75.7375, 12.3874
YIQ	186.8040, 2.2200, -106.3560

# Conversions

## Conversions Part 2

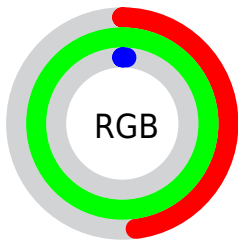
Format	Color
<b>RYB</b>	3, 255, 135
Decimal	8126211
CIELab	89.74, -69.16, 85.40
CIELCh	90, 109.888, 129.003
Yxy	75.7375, 0.3327, 0.5735
Android (android.graphics.Color)	4286316291 (0xFF7BFF03)
YUV	186.8040, -90.6154, -55.9561
Hunter-Lab	87.0273, -62.1794, 52.4798

# Details

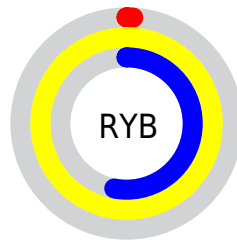
The Yxy color **75.7375, 0.3327, 0.5735** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **12.4394, 0.2064, 0.0914**, and the grayscale version is **50.0833, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7673, 0.3532, 0.5037**, and **40.5855, 0.3098, 0.5922** is the 20% darker color. If you saturate the color by 10%, you get **75.6117, 0.3320, 0.5746**, and if you desaturate by 10%, it is **76.8648, 0.3381, 0.5628**.

# Distribution



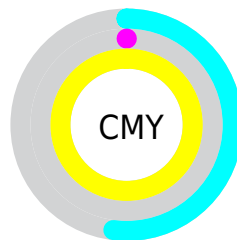
- Red (48%)
- Green (100%)
- Blue (1%)



- Red (1%)
- Yellow (100%)
- Blue (53%)



- Cyan (52%)
- Magenta (0%)
- Yellow (99%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.7375, 0.3327, 0.5735 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 75.7375, 0.3327, 0.5735 by changing the saturation by 10% instead.




 75.7375, 0.3327,  
0.5735


 75.7375, 0.3327,  
0.5735

480.4486, 0.3359,  
0.4568

 56.2173, 0.3281,  
0.5986


 127.3558, 0.3368,  
0.5338

 40.3772, 0.3206,  
0.6279


 160.2226, 0.3376,  
0.5180


 27.8327, 0.3081,  
0.6621


 198.3072, 0.3378,  
0.5043

 18.1996, 0.2908,  
0.7082

 241.9937, 0.3377,  
0.4923

 11.0934, 0.2555,  
0.7445

 291.6668, 0.3374,  
0.4818

 6.1297, 0.2064,  
0.7936


 347.7107, 0.3370,

 2.9241, 0.1173,


0.4725


0.8827


410.5098, 0.3365,  
0.4642


 1.0922, 0.0000,  
1.0000

 0.0000, 0.0000,  
0.0000


 75.7375, 0.3327,  
0.5735


 75.7375, 0.3327,  
0.5735

 75.6117, 0.3320,  
0.5746


 76.8648, 0.3381,  
0.5628


 78.2374, 0.3418,  
0.5464


 79.8799, 0.3433,  
0.5244


 81.8140, 0.3427,  
0.4980

 84.0587, 0.3401,  
0.4687

 86.6310, 0.3359,  
0.4382

 89.5464, 0.3307,  
0.4078

 92.8193, 0.3247,  
0.3786

 96.4629, 0.3184,  
0.3513

# Harmonies

## Analogous

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



75.7375, 0.4413, 0.5211



75.7375, 0.3327, 0.5735



75.7375, 0.2248, 0.5084

# Triad

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



75.7375, 0.3327, 0.5735



75.7375, 0.1233, 0.1701



75.7375, 0.4993, 0.2768

# Complementary

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



75.7375, 0.3327, 0.5735



12.4394, 0.2064, 0.0914

# 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.



75.7375, 0.3714, 0.2125



75.7375, 0.3327, 0.5735



75.7375, 0.1638, 0.1542

# Square

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



75.7375, 0.3327, 0.5735



75.7375, 0.1168, 0.2290



75.7375, 0.2461, 0.1695



75.7375, 0.5580, 0.3507



# Rectangle

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



75.7375, 0.3327, 0.5735



75.7375, 0.1682, 0.4048



75.7375, 0.2461, 0.1695



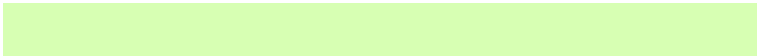
75.7375, 0.4611, 0.2538

# Sweetspot

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



75.7322, 0.3327, 0.5735



89.1880, 0.3313, 0.4113



38.0932, 0.5365, 0.4114



18.8214, 0.3336, 0.4241



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.



75.7322, 0.3327, 0.5735



75.6117, 0.3320, 0.5746



71.5549, 0.2998, 0.5987



20.5921, 0.3188, 0.3531



39.5963, 0.3332, 0.5736



3.9199, 0.3419, 0.5667



# Inverse Universe

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



12.4394, 0.2064, 0.0914



12.2581, 0.2052, 0.0904



28.2770, 0.3251, 0.1567



17.8461, 0.3061, 0.3050



6.4947, 0.2069, 0.0913

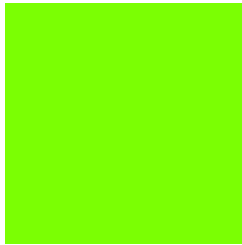


0.6974, 0.2189, 0.0979



# Previews

## White Background



This preview shows how the Yxy color 75.7375, 0.3327, 0.5735 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

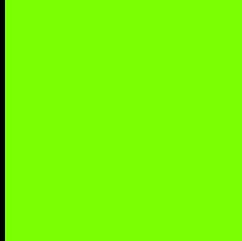
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.7375, 0.3327, 0.5735 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

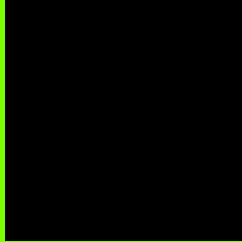
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

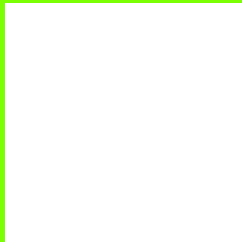
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.7375, 0.3327, 0.5735**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.7375, 0.3327, 0.5735.



This preview shows how white text looks on a background with the Yxy color 75.7375, 0.3327, 0.5735.

# 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

75.7375, 0.3327, 0.5735

### Protanopia

74.1940, 0.4415, 0.4877

### Deuteranopia

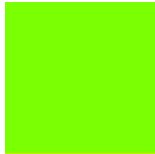
74.1560, 0.3775, 0.3825



## Tritanopia

75.3654, 0.2581, 0.3086

# Trichromacy



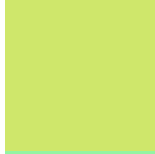
## Original Color

75.7375, 0.3327, 0.5735



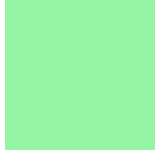
## Protanomaly

72.5407, 0.3974, 0.5225



## Deuteranomaly

71.4788, 0.3719, 0.4667



## Tritanomaly

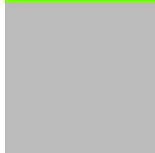
73.5488, 0.2987, 0.4309

# Monochromacy



## Original Color

75.7375, 0.3327, 0.5735



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

56.3355, 0.3380, 0.4507

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.7375, 0.3327, 0.5735 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(123, 255, 3)` looks like.

```
.text, #text, p{  
    color:rgb(123, 255, 3)  
}
```

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(123, 255, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 255, 3) }
```

## Border

The CSS property to change the border of an element to Yxy 75.7375, 0.3327, 0.5735 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(123, 255, 3) }
```

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

```
.border{ border-color:rgb(123, 255, 3) }
```

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

Here you see how a box with a 4 pixel rgb(123, 255, 3) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 255, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 255, 3);  
box-shadow:4px 4px 4px 4px rgb(123, 255,  
3) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.7375, 0.3327, 0.5735 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 255, 3) }
```

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

```
.background{ background-color: rgb(123,  
255, 3) }
```

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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