

# Converting Colors

$Y_{xy}(75.0112, 0.3144, 0.5511)$

Have a look what the booklet for  
Yxy(75.0112, 0.3144, 0.5511)  
contains.

<b>Yxy(74.9911, 0.3141, 0.5510)</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> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(74.9911, 0.3141, 0.5510)**

# Conversions

## Conversions Part 1

Format	Color
Hex	69FF48
RGB	105, 255, 72
RGB Percent	41%, 100%, 28%
CMY	0.5886, 0.0000, 0.7175
CMYK	0.59, 0.00, 0.72, 0.00
HSL	109°, 100%, 64%
HSV	109°, 72%, 100%
XYZ	42.7490, 74.9911, 18.3599
YIQ	189.2880, -30.6570, -88.7130

# Conversions

## Conversions Part 2

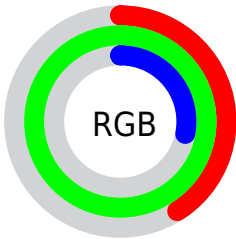
Format	Color
<a href="#">RYB</a>	<a href="#">72, 255, 222</a>
Decimal	<a href="#">6946632</a>
CIELab	<a href="#">89.39, -71.17, 71.21</a>
CIELCh	<a href="#">89, 100.682, 134.984</a>
Yxy	<a href="#">74.9911, 0.3141, 0.5510</a>
Android (android.graphics.Color)	<a href="#">4285136712 (0xFF69FF48)</a>
YUV	<a href="#">189.2880, -57.8230, -73.9206</a>
Hunter-Lab	<a href="#">86.5974, -63.4285, 48.0479</a>

# Details

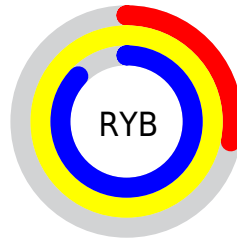
The Yxy color **74.9911, 0.3141, 0.5510** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **27.4122, 0.2885, 0.1565**, and the grayscale version is **51.4008, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.5667, 0.3272, 0.4753**, and **39.9712, 0.3006, 0.5995** is the 20% darker color. If you saturate the color by 10%, you get **73.6062, 0.3112, 0.5738**, and if you desaturate by 10%, it is **76.8163, 0.3161, 0.5220**.

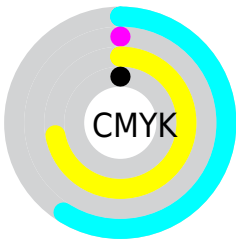
# Distribution



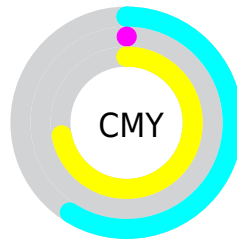
- Red (41%)
- Green (100%)
- Blue (28%)



- Red (28%)
- Yellow (100%)
- Blue (87%)



- Cyan (59%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (59%)
- Magenta (0%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.9911, 0.3141, 0.5510 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 74.9911, 0.3141, 0.5510 by changing the saturation by 10% instead.




 74.9911, 0.3141,  
0.5510

 74.9911, 0.3141,  
0.5510


477.8870, 0.3222,  
0.4418


 55.6056, 0.3096,  
0.5761


 126.2998, 0.3190,  
0.5127


 39.8868, 0.3026,  
0.6065

 158.9917, 0.3203,  
0.4978


 27.4503, 0.2915,  
0.6438


 196.8879, 0.3211,  
0.4851

 17.9117, 0.2735,  
0.6890

 240.3728, 0.3217,  
0.4741

 10.8866, 0.2474,  
0.7526

 289.8308, 0.3220,  
0.4644

 5.9906, 0.1966,  
0.8034


345.6462, 0.3222,

 2.8394, 0.0963,


0.4560


0.9037


408.2035, 0.3222,  
0.4485


 1.0485, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 74.9911, 0.3141,  
0.5510


 74.9911, 0.3141,  
0.5510


 73.6062, 0.3112,  
0.5738

 76.8163, 0.3161,  
0.5220

 72.6336, 0.3078,  
0.5890

 79.1315, 0.3173,  
0.4891

 72.0964, 0.3049,  
0.5961

 81.9645, 0.3175,  
0.4547

 85.3446, 0.3170,  
0.4209

89.2990, 0.3160,  
0.3888

93.8532, 0.3146,  
0.3595

99.0308, 0.3130,  
0.3333

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.



74.9911, 0.4179, 0.5248



74.9911, 0.3141, 0.5510



74.9911, 0.2151, 0.4661

# Triad

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



74.9911, 0.3141, 0.5510



74.9911, 0.1388, 0.1744



74.9911, 0.5024, 0.2954

# Complementary

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



74.9911, 0.3141, 0.5510



27.4122, 0.2885, 0.1565

# 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.



74.9911, 0.3929, 0.2310



74.9911, 0.3141, 0.5510



74.9911, 0.1853, 0.1649

# Square

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



74.9911, 0.3141, 0.5510



74.9911, 0.1265, 0.2220



74.9911, 0.2720, 0.1849



74.9911, 0.5416, 0.3681



# Rectangle

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



74.9911, 0.3141, 0.5510



74.9911, 0.1663, 0.3699



74.9911, 0.2720, 0.1849



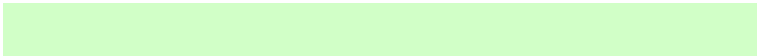
74.9911, 0.4714, 0.2726

# Sweetspot

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



74.9866, 0.3141, 0.5510



89.1909, 0.3160, 0.3896



73.6842, 0.4306, 0.4639



18.8494, 0.3164, 0.3981



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.



74.9866, 0.3141, 0.5510



73.1452, 0.3098, 0.5813



74.5109, 0.2827, 0.4960



20.3250, 0.3143, 0.3534



37.7169, 0.3056, 0.5955



3.7129, 0.3122, 0.5903



# Inverse Universe

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



27.4122, 0.2885, 0.1565



23.0027, 0.2816, 0.1382



29.9354, 0.3848, 0.2148



18.1257, 0.3109, 0.3054



10.9301, 0.2757, 0.1293

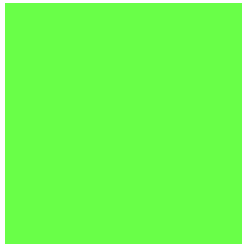


1.1053, 0.2812, 0.1322



# Previews

## White Background



This preview shows how the Yxy color 74.9911, 0.3141, 0.5510 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

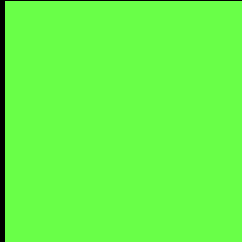
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.9911, 0.3141, 0.5510 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

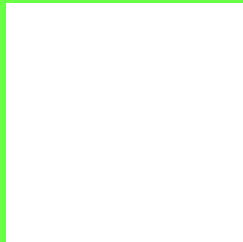
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 74.9911, 0.3141, 0.5510**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.9911, 0.3141, 0.5510.

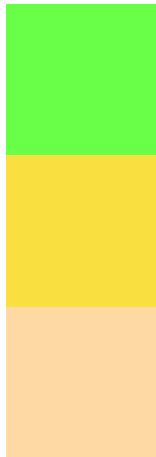


This preview shows how white text looks on a background with the Yxy color 74.9911, 0.3141, 0.5510.

# 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

74.9911, 0.3141, 0.5510

### Protanopia

73.4695, 0.4286, 0.4718

### Deuteranopia

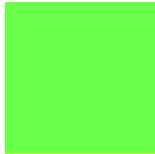
73.5660, 0.3793, 0.3835



## Tritanopia

74.3677, 0.2533, 0.3083

# Trichromacy



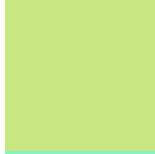
## Original Color

74.9911, 0.3141, 0.5510



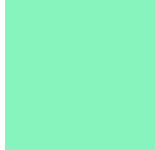
## Protanomaly

71.6922, 0.3792, 0.5057



## Deuteranomaly

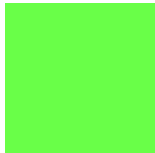
71.0699, 0.3536, 0.4448



## Tritanomaly

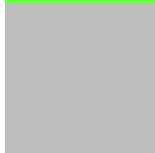
73.4005, 0.2790, 0.3996

# Monochromacy



## Original Color

74.9911, 0.3141, 0.5510



## Achromatopsia

50.8881, 0.3127, 0.3290



## Achromatomaly

56.9329, 0.3170, 0.4188

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.9911, 0.3141, 0.5510 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(105, 255, 72)` looks like.

```
.text, #text, p{  
    color:rgb(105, 255, 72)  
}
```

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(105, 255, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 255, 72) }
```

## Border

The CSS property to change the border of an element to Yxy 74.9911, 0.3141, 0.5510 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(105, 255, 72) }
```

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

```
.border{ border-color:rgb(105, 255, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 255, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 255, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 255, 72);  
box-shadow:4px 4px 4px 4px rgb(105, 255,  
72) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.9911, 0.3141, 0.5510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 255, 72) }
```

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

```
.background{ background-color: rgb(105,  
255, 72) }
```

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