

# Converting Colors

$Y_{xy}(72.1554, 0.3004, 0.5844)$

Have a look what the booklet for  
Yxy(72.1554, 0.3004, 0.5844)  
contains.

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# Color

**Yxy(72.1658, 0.3004, 0.5842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	29FF2B
RGB	41, 255, 43
RGB Percent	16%, 100%, 17%
CMY	0.8394, 0.0000, 0.8315
CMYK	0.84, 0.00, 0.83, 0.00
HSL	121°, 100%, 58%
HSV	121°, 84%, 100%
XYZ	37.1082, 72.1658, 14.2553
YIQ	166.8460, -59.4920, -111.3000

# Conversions

## Conversions Part 2

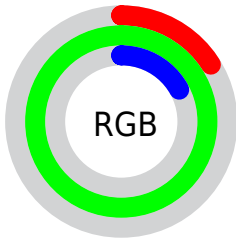
<b>Format</b>	<b>Color</b>
<b>RYB</b>	41, 253, 255
Decimal	2752299
CIELab	88.05, -83.05, 77.84
CIELCh	88, 113.822, 136.854
Yxy	72.1658, 0.3004, 0.5842
Android (android.graphics.Color)	4280942379 (0xFF29FF2B)
YUV	166.8460, -61.0561, -110.3669
Hunter-Lab	84.9505, -70.6906, 49.5160

# Details

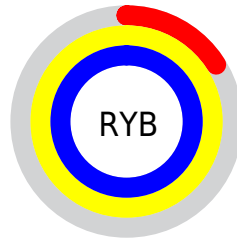
The Yxy color **72.1658, 0.3004, 0.5842** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **29.9319, 0.3226, 0.1616**, and the grayscale version is **38.8789, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.2913, 0.3135, 0.5094**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.6681, 0.3000, 0.5961**, and if you desaturate by 10%, it is **73.1139, 0.3012, 0.5635**.

# Distribution



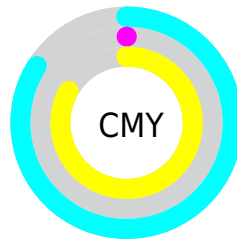
- Red (16%)
- Green (100%)
- Blue (17%)



- Red (16%)
- Yellow (99%)
- Blue (100%)



- Cyan (84%)
- Magenta (0%)
- Yellow (83%)
- Black (0%)




- Cyan (84%)
- Magenta (0%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.1658, 0.3004, 0.5842 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 72.1658, 0.3004, 0.5842 by changing the saturation by 10% instead.




 72.1658, 0.3004,  
0.5842


 72.1658, 0.3004,  
0.5842


468.1185, 0.3176,  
0.4574

 53.2941, 0.2930,  
0.6132


 122.2922, 0.3091,  
0.5397


 38.0376, 0.2820,  
0.6480


 154.3158, 0.3117,  
0.5224

 26.0119, 0.2655,  
0.6898


 191.4921, 0.3136,  
0.5076

 16.8325, 0.2414,  
0.7431

 234.2055, 0.3149,  
0.4947

 10.1152, 0.2021,  
0.7979

 282.8404, 0.3160,  
0.4836

 5.4754, 0.1448,  
0.8552

337.7813, 0.3167,

 2.5288, 0.0000,

0.4738

1.0000

399.4126, 0.3172,  
0.4651

■ 0.8910, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 72.1658, 0.3004,  
0.5842

■ 72.1658, 0.3004,  
0.5842

■ 71.6681, 0.3000,  
0.5961


■ 73.1139, 0.3012,  
0.5635

■ 71.5253, 0.2999,  
0.5996


■ 74.5914, 0.3025,  
0.5351


■ 76.6585, 0.3040,  
0.5015

■ 79.3683, 0.3057,  
0.4657

 82.7680, 0.3075,  
0.4300

 86.9003, 0.3092,  
0.3964

 91.8045, 0.3108,  
0.3658

 97.5171, 0.3122,  
0.3387

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.



72.1658, 0.4148, 0.5489



72.1658, 0.3004, 0.5842



72.1658, 0.1943, 0.4790

# Triad

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



72.1658, 0.3004, 0.5842



72.1658, 0.1241, 0.1561



72.1658, 0.5341, 0.2927

# Complementary

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



72.1658, 0.3004, 0.5842



29.9319, 0.3226, 0.1616

# 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.



72.1658, 0.4120, 0.2235



72.1658, 0.3004, 0.5842



72.1658, 0.1756, 0.1493

# Square

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



72.1658, 0.3004, 0.5842



72.1658, 0.1085, 0.2022



72.1658, 0.2732, 0.1726



72.1658, 0.5679, 0.3697



# Rectangle

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



72.1658, 0.3004, 0.5842



72.1658, 0.1445, 0.3632



72.1658, 0.2732, 0.1726



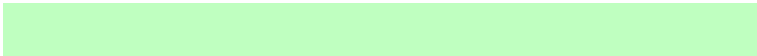
72.1658, 0.5007, 0.2685

# Sweetspot

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



72.1645, 0.3004, 0.5842



86.4281, 0.3090, 0.3998



92.9397, 0.4155, 0.4989



18.1761, 0.3084, 0.4114



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.



72.1645, 0.3004, 0.5842



71.5253, 0.2999, 0.5996



74.1275, 0.2689, 0.4744



20.1710, 0.3114, 0.3533



37.3747, 0.2998, 0.5994



3.6400, 0.2995, 0.5980



# Inverse Universe

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



29.9319, 0.3226, 0.1616



28.3253, 0.3233, 0.1555



24.9791, 0.4614, 0.2433



18.2973, 0.3140, 0.3058



14.8019, 0.3233, 0.1555

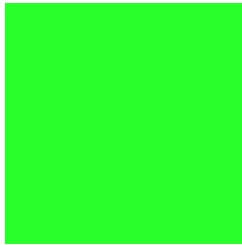


1.4421, 0.3230, 0.1553



# Previews

## White Background



This preview shows how the Yxy color 72.1658, 0.3004, 0.5842 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 72.1658, 0.3004, 0.5842 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

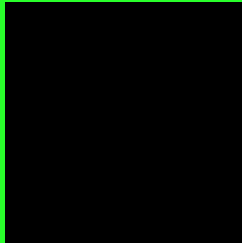
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.1658, 0.3004, 0.5842**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.1658, 0.3004, 0.5842.

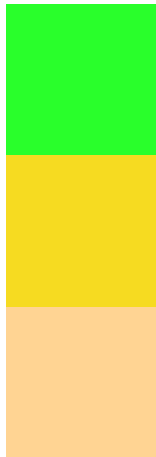


This preview shows how white text looks on a background with the Yxy color 72.1658, 0.3004, 0.5842.

# 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

72.1658, 0.3004, 0.5842

### Protanopia

70.3657, 0.4368, 0.4831

### Deuteranopia

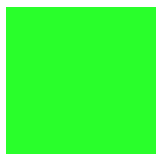
70.4536, 0.3935, 0.3958



## Tritanopia

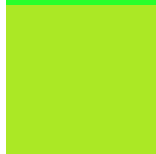
71.7103, 0.2399, 0.3076

# Trichromacy



## Original Color

72.1658, 0.3004, 0.5842



## Protanomaly

66.5047, 0.3689, 0.5335



## Deuteranomaly

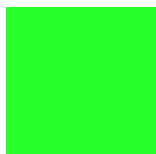
65.9380, 0.3494, 0.4737



## Tritanomaly

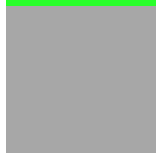
70.1399, 0.2659, 0.4171

# Monochromacy



## Original Color

72.1658, 0.3004, 0.5842



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

46.3169, 0.3065, 0.4462

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.1658, 0.3004, 0.5842 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(41, 255, 43)` looks like.

```
.text, #text, p{  
    color:rgb(41, 255, 43)  
}
```

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(41, 255, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 255, 43) }
```

## Border

The CSS property to change the border of an element to Yxy 72.1658, 0.3004, 0.5842 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(41, 255, 43) }
```

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

```
.border{ border-color:rgb(41, 255, 43) }
```

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

Here you see how a box with a 4 pixel rgb(41, 255, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 255, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 255, 43);  
box-shadow:4px 4px 4px 4px rgb(41, 255,  
43) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.1658, 0.3004, 0.5842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 255, 43) }
```

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

```
.background{ background-color: rgb(41, 255,  
43) }
```

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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