

# Converting Colors

$Y_{xy}(72.7744, 0.3036, 0.5764)$

Have a look what the booklet for  
Yxy(72.7744, 0.3036, 0.5764)  
contains.

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# Color

**Yxy(72.7831, 0.3036, 0.5763)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3EFF33
RGB	62, 255, 51
RGB Percent	24%, 100%, 20%
CMY	0.7571, 0.0000, 0.7997
CMYK	0.76, 0.00, 0.80, 0.00
HSL	117°, 100%, 60%
HSV	117°, 80%, 100%
XYZ	38.3428, 72.7831, 15.1679
YIQ	174.0370, -49.5440, -104.3600

# Conversions

## Conversions Part 2

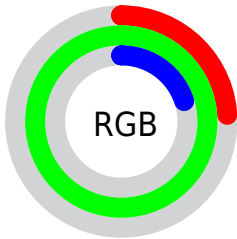
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 255, 244
Decimal	4128563
CIE <sub>Lab</sub>	88.34, -80.31, 76.23
CIE <sub>LCh</sub>	88, 110.727, 136.495
Yxy	72.7831, 0.3036, 0.5763
Android (android.graphics.Color)	4282318643 (0xFF3EFF33)
YUV	174.0370, -60.6572, -98.2564
Hunter-Lab	85.3130, -69.0733, 49.1779

# Details

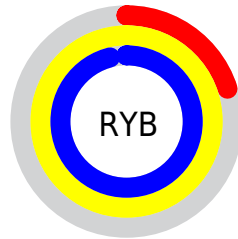
The Yxy color **72.7831, 0.3036, 0.5763** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **28.8523, 0.3099, 0.1580**, and the grayscale version is **42.6800, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2239, 0.3168, 0.5012**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.0011, 0.3020, 0.5919**, and if you desaturate by 10%, it is **74.0324, 0.3054, 0.5523**.

# Distribution



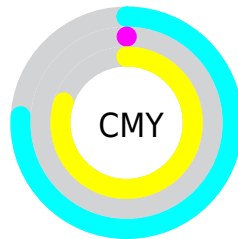
- Red (24%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (96%)



- Cyan (76%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (76%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.7831, 0.3036, 0.5763 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 72.7831, 0.3036, 0.5763 by changing the saturation by 10% instead.





 72.7831, 0.3036,  
0.5763

 72.7831, 0.3036,  
0.5763


470.2627, 0.3187,  
0.4536

 53.7986, 0.2969,  
0.6044


 123.1692, 0.3114,  
0.5332

 38.4407, 0.2869,  
0.6383


 155.3397, 0.3137,  
0.5165

 26.3249, 0.2716,  
0.6791


 192.6743, 0.3153,  
0.5022

 17.0669, 0.2488,  
0.7299

 235.5574, 0.3165,  
0.4898

 10.2822, 0.2124,  
0.7876

 284.3734, 0.3173,  
0.4790

 5.5864, 0.1563,  
0.8437


339.5067, 0.3179,


 2.5953, 0.0000,


0.4695


1.0000


401.3416, 0.3184,  
0.4611


 0.9243, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.7831, 0.3036,  
0.5763


 72.7831, 0.3036,  
0.5763


 72.0011, 0.3020,  
0.5919


 74.0324, 0.3054,  
0.5523

 71.6109, 0.3008,  
0.5994


 75.8105, 0.3071,  
0.5217

 71.6101, 0.3008,  
0.5994

 78.1662, 0.3086,  
0.4872

 81.1436, 0.3100,  
0.4514

 84.7824, 0.3110,  
0.4165

 89.1192, 0.3118,  
0.3841

 94.1878, 0.3123,  
0.3548

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.



72.7831, 0.4157, 0.5436



72.7831, 0.3036, 0.5763



72.7831, 0.1990, 0.4758

# Triad

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



72.7831, 0.3036, 0.5763



72.7831, 0.1275, 0.1602



72.7831, 0.5269, 0.2935

# Complementary

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



72.7831, 0.3036, 0.5763



28.8523, 0.3099, 0.1580

# 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.



72.7831, 0.4077, 0.2253



72.7831, 0.3036, 0.5763



72.7831, 0.1779, 0.1529

# Square

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



72.7831, 0.3036, 0.5763



72.7831, 0.1125, 0.2066



72.7831, 0.2731, 0.1755



72.7831, 0.5620, 0.3697



# Rectangle

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



72.7831, 0.3036, 0.5763



72.7831, 0.1494, 0.3647



72.7831, 0.2731, 0.1755



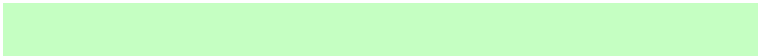
72.7831, 0.4940, 0.2696

# Sweetspot

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



72.7821, 0.3036, 0.5763



87.2845, 0.3115, 0.3968



84.6506, 0.4227, 0.4874



18.3563, 0.3112, 0.4085



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.



72.7821, 0.3036, 0.5763



71.7274, 0.3011, 0.5971



74.1031, 0.2740, 0.4855



20.2143, 0.3124, 0.3535



37.4365, 0.3011, 0.5991



3.6606, 0.3037, 0.5971



# Inverse Universe

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



28.8523, 0.3099, 0.1580



26.3114, 0.3079, 0.1479



26.4113, 0.4306, 0.2303



18.2482, 0.3129, 0.3055



13.6038, 0.3076, 0.1468

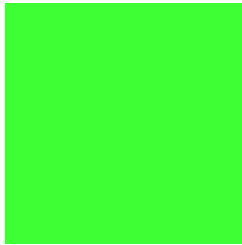


1.3390, 0.3092, 0.1477



# Previews

## White Background



This preview shows how the Yxy color 72.7831, 0.3036, 0.5763 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

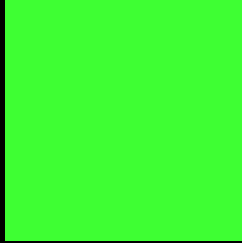
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.7831, 0.3036, 0.5763 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 72.7831, 0.3036, 0.5763**

## Background



This preview shows how black text looks on a background with the Yxy color 72.7831, 0.3036, 0.5763.



This preview shows how white text looks on a background with the Yxy color 72.7831, 0.3036, 0.5763.

# 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

72.7831, 0.3036, 0.5763

### Protanopia

71.1277, 0.4349, 0.4805

### Deuteranopia

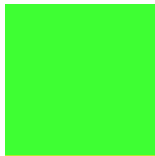
71.0829, 0.3902, 0.3928



## Tritanopia

72.3004, 0.2430, 0.3077

# Trichromacy



## Original Color

72.7831, 0.3036, 0.5763



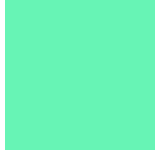
## Protanomaly

68.1706, 0.3735, 0.5256



## Deuteranomaly

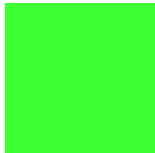
67.0389, 0.3522, 0.4644



## Tritanomaly

70.9211, 0.2688, 0.4119

# Monochromacy



## Original Color

72.7831, 0.3036, 0.5763



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

49.2834, 0.3104, 0.4373

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.7831, 0.3036, 0.5763 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(62, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(62, 255, 51)  
}
```

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(62, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(62, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 72.7831, 0.3036, 0.5763 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(62, 255, 51) }
```

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

```
.border{ border-color:rgb(62, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(62, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(62, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(62, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(62, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.7831, 0.3036, 0.5763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(62, 255, 51) }
```

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

```
.background{ background-color: rgb(62, 255,  
51) }
```

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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