

# Converting Colors

$Y_{xy}(30.4511, 0.2303, 0.6267)$

Have a look what the booklet for  
Yxy(30.4511, 0.2303, 0.6267)  
contains.

<b>Yxy(33.5833, 0.2945, 0.5802)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(33.5833, 0.2945, 0.5802)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B624
RGB	0, 182, 36
RGB Percent	0%, 71%, 14%
CMY	1.0000, 0.2863, 0.8588
CMYK	1.00, 0.00, 0.80, 0.29
HSL	132°, 100%, 36%
HSV	132°, 100%, 71%
XYZ	17.0463, 33.5833, 7.2526
YIQ	110.9380, -61.6060, -83.9900

# Conversions

## Conversions Part 2

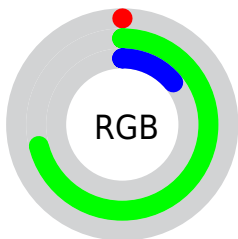
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 152, 182
Decimal	46628
CIELab	64.63, -65.58, 57.95
CIELCh	65, 87.509, 138.535
Yxy	33.5833, 0.2945, 0.5802
Android (android.graphics.Color)	4278236708 (0xFF00B624)
YUV	110.9380, -36.9444, -97.2926
Hunter-Lab	57.9511, -48.9086, 33.1456

# Details

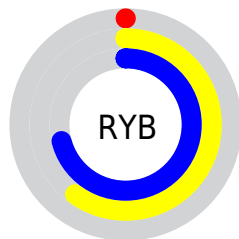
The Yxy color **33.5833, 0.2945, 0.5802** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **12.0208, 0.3782, 0.1857**, and the grayscale version is **16.0008, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.1200, 0.3057, 0.5255**, and **15.1787, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **33.5847, 0.2945, 0.5802**, and if you desaturate by 10%, it is **33.8234, 0.2924, 0.5629**.

# Distribution



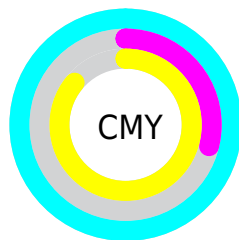
- Red (0%)
- Green (71%)
- Blue (14%)



- Red (0%)
- Yellow (60%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (80%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.5833, 0.2945, 0.5802 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 33.5833, 0.2945, 0.5802 by changing the saturation by 10% instead.





 33.5833, 0.2945,  
0.5802

 33.5833, 0.2945,  
0.5802


318.2700, 0.3147,  
0.4382

 22.5737, 0.2841,  
0.6189


 65.2851, 0.3055,  
0.5255


 14.2790, 0.2671,  
0.6685


 86.7461, 0.3084,  
0.5058


 8.3150, 0.2428,  
0.7462


 112.4597, 0.3105,  
0.4895

 4.2972, 0.1888,  
0.8112

 142.8102, 0.3119,  
0.4758

 1.8411, 0.0000,  
1.0000

 178.1821, 0.3130,  
0.4642

 0.5126, 0.0000,  
1.0000

 218.9598, 0.3137,

 0.0000, 0.0000,

0.4543

0.0000

265.5276, 0.3143,  
0.4457

■ 33.5833, 0.2945,  
0.5802

■ 33.5833, 0.2945,  
0.5802

■ 33.5847, 0.2945,  
0.5802

■ 33.8234, 0.2924,  
0.5629

■ 34.2236, 0.2911,  
0.5405

■ 34.8346, 0.2909,  
0.5138

■ 35.6814, 0.2920,  
0.4847

■ 36.7857, 0.2942,  
0.4547

■ 38.1666, 0.2972,  
0.4253

■ 39.8412, 0.3008,  
0.3976

■ 41.8254, 0.3047,  
0.3721

■ 44.1339, 0.3087,  
0.3493

# Harmonies

## Analogous

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



33.5833, 0.4085, 0.5521



33.5833, 0.2945, 0.5802



33.5833, 0.1902, 0.4683

# Triad

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



33.5833, 0.2945, 0.5802



33.5833, 0.1270, 0.1558



33.5833, 0.5371, 0.2973

# Complementary

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



33.5833, 0.2945, 0.5802



12.0208, 0.3782, 0.1857

# 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.



33.5833, 0.4193, 0.2276



33.5833, 0.2945, 0.5802



33.5833, 0.1806, 0.1508

# Square

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



33.5833, 0.2945, 0.5802



33.5833, 0.1095, 0.1992



33.5833, 0.2804, 0.1757



33.5833, 0.5654, 0.3745



# Rectangle

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



33.5833, 0.2945, 0.5802



33.5833, 0.1425, 0.3539



33.5833, 0.2804, 0.1757



33.5833, 0.5056, 0.2730

# Sweetspot

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



33.5847, 0.2945, 0.5802



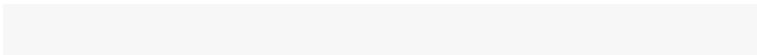
72.0613, 0.3006, 0.3989



39.8127, 0.3873, 0.5307



15.6221, 0.2991, 0.4104



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.5847, 0.2945, 0.5802



60.8598, 0.2951, 0.5824



34.9219, 0.2543, 0.4356



10.0884, 0.3090, 0.3479



23.7239, 0.2940, 0.5786



0.8450, 0.2809, 0.5312



# Inverse Universe

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



12.0208, 0.3782, 0.1857



21.7584, 0.3793, 0.1863



10.2473, 0.5700, 0.2914



9.1315, 0.3167, 0.3109



8.4981, 0.3774, 0.1853

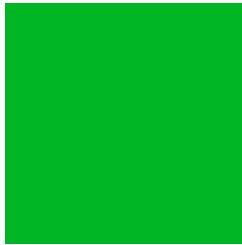


0.3075, 0.3603, 0.1759



# Previews

## White Background



This preview shows how the Yxy color 33.5833, 0.2945, 0.5802 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

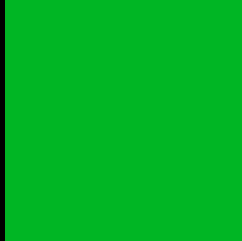
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.5833, 0.2945, 0.5802 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

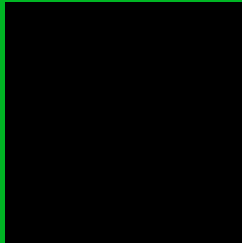
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

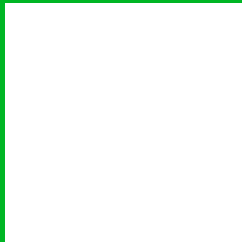
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 33.5833, 0.2945, 0.5802**

## Background



This preview shows how black text looks on a background with the Yxy color 33.5833, 0.2945, 0.5802.



This preview shows how white text looks on a background with the Yxy color 33.5833, 0.2945, 0.5802.

# 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

33.5833, 0.2945, 0.5802

### Protanopia

32.9796, 0.4334, 0.4799

### Deuteranopia

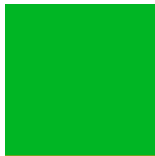
33.0298, 0.4520, 0.4428



## Tritanopia

33.3313, 0.2361, 0.3060

# Trichromacy



## Original Color

33.5833, 0.2945, 0.5802



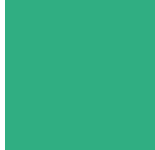
## Protanomaly

30.3941, 0.3567, 0.5348



## Deuteranomaly

29.6240, 0.3674, 0.5092



## Tritanomaly

32.5122, 0.2573, 0.4104

# Monochromacy



## Original Color

33.5833, 0.2945, 0.5802



## Achromatopsia

15.8961, 0.3127, 0.3290



## Achromatomaly

19.8710, 0.2951, 0.4461

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.5833, 0.2945, 0.5802 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(0, 182, 36)` looks like.

```
.text, #text, p{  
    color:rgb(0, 182, 36)  
}
```

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(0, 182, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 182, 36) }
```

## Border

The CSS property to change the border of an element to Yxy 33.5833, 0.2945, 0.5802 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(0, 182, 36) }
```

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

```
.border{ border-color:rgb(0, 182, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 182, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 182, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 182, 36);  
box-shadow:4px 4px 4px 4px rgb(0, 182, 36)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 33.5833, 0.2945, 0.5802 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 182, 36) }
```

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

```
.background{ background-color: rgb(0, 182,  
36) }
```

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