

# Converting Colors

$Y_{xy}(38.1768, 0.2733, 0.5039)$

Have a look what the booklet for  
Yxy(38.1768, 0.2733, 0.5039)  
contains.

<b>Yxy(38.0698, 0.2733, 0.5038)</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(38.0698, 0.2733, 0.5038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BF5E
RGB	0, 191, 94
RGB Percent	0%, 75%, 37%
CMY	0.9993, 0.2510, 0.6315
CMYK	1.00, 0.00, 0.51, 0.25
HSL	149°, 100%, 37%
HSV	149°, 100%, 75%
XYZ	20.6520, 38.0698, 16.8435
YIQ	122.8330, -82.6990, -70.6590

# Conversions

## Conversions Part 2

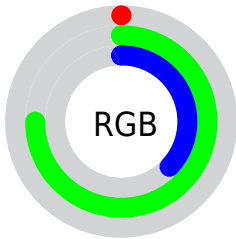
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 191
Decimal	48990
CIELab	68.07, -61.79, 37.59
CIELCh	68, 72.323, 148.685
Yxy	38.0698, 0.2733, 0.5038
Android (android.graphics.Color)	4278239070 (0xFF00BF5E)
YUV	122.8330, -14.2147, -107.7245
Hunter-Lab	61.7007, -48.2301, 27.0051

# Details

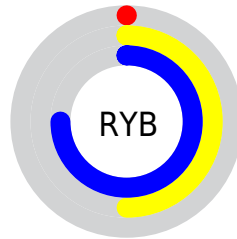
The Yxy color **38.0698, 0.2733, 0.5038** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **11.9478, 0.4926, 0.2488**, and the grayscale version is **19.8367, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.4234, 0.2838, 0.4661**, and **17.7902, 0.2860, 0.5495** is the 20% darker color. If you saturate the color by 10%, you get **38.0684, 0.2733, 0.5040**, and if you desaturate by 10%, it is **38.3969, 0.2705, 0.4855**.

# Distribution



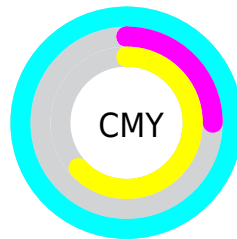
- Red (0%)
- Green (75%)
- Blue (37%)



- Red (0%)
- Yellow (50%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (51%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.0698, 0.2733, 0.5038 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 38.0698, 0.2733, 0.5038 by changing the saturation by 10% instead.





 38.0698, 0.2733,  
0.5038


 38.0698, 0.2733,  
0.5038


337.9193, 0.2982,  
0.4060

 26.0369, 0.2650,  
0.5316


 72.2151, 0.2838,  
0.4657


 16.8512, 0.2530,  
0.5691


 95.0963, 0.2873,  
0.4522

 10.1285, 0.2345,  
0.6216

 122.3623, 0.2900,  
0.4410

 5.4842, 0.2042,  
0.6994

 154.3976, 0.2923,  
0.4317

 2.5341, 0.1343,  
0.8657

 191.5866, 0.2941,  
0.4238

 0.8936, 0.0000,  
1.0000

 234.3136, 0.2957,

 0.0000, 0.0000,

0.4170

0.0000

282.9630, 0.2970,  
0.4111

■ 38.0698, 0.2733,  
0.5038

■ 38.0698, 0.2733,  
0.5038

■ 38.0684, 0.2733,  
0.5040

■ 38.3969, 0.2705,  
0.4855

■ 38.8832, 0.2692,  
0.4663

■ 39.5796, 0.2699,  
0.4464

■ 40.5119, 0.2725,  
0.4266

■ 41.7017, 0.2768,  
0.4072

■ 43.1683, 0.2825,  
0.3888

■ 44.9291, 0.2892,  
0.3717

■ 47.0000, 0.2967,  
0.3559

■ 49.3956, 0.3046,  
0.3417

# Harmonies

## Analogous

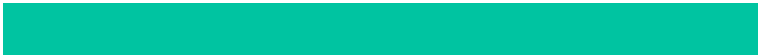
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



38.0698, 0.3706, 0.5274



38.0698, 0.2733, 0.5038



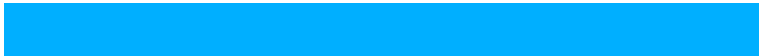
38.0698, 0.1920, 0.3938

# Triad

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



38.0698, 0.2733, 0.5038



38.0698, 0.1673, 0.1785



38.0698, 0.5105, 0.3310

# Complementary

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



38.0698, 0.2733, 0.5038



11.9478, 0.4926, 0.2488

# 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.



38.0698, 0.4355, 0.2655



38.0698, 0.2733, 0.5038



38.0698, 0.2280, 0.1823

# Square

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



38.0698, 0.2733, 0.5038



38.0698, 0.1413, 0.2065



38.0698, 0.3244, 0.2128



38.0698, 0.5146, 0.4026



# Rectangle

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



38.0698, 0.2733, 0.5038



38.0698, 0.1581, 0.3119



38.0698, 0.3244, 0.2128



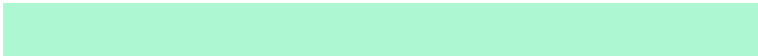
38.0698, 0.4926, 0.3083

# Sweetspot

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



38.0713, 0.2733, 0.5038



80.2707, 0.2888, 0.3726



39.9029, 0.3388, 0.5691



17.3195, 0.2858, 0.3798



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



38.0713, 0.2733, 0.5038



68.1305, 0.2741, 0.5067



40.8867, 0.2261, 0.3338



10.7257, 0.3051, 0.3409



25.0337, 0.2727, 0.5016



0.9938, 0.2602, 0.4568



# Inverse Universe

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



11.9478, 0.4926, 0.2488



21.3384, 0.4961, 0.2507



11.0881, 0.6382, 0.3290



9.6152, 0.3211, 0.3174



7.8642, 0.4899, 0.2472



0.3212, 0.4389, 0.2192



# Previews

## White Background



This preview shows how the Yxy color 38.0698, 0.2733, 0.5038 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 38.0698, 0.2733, 0.5038 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 38.0698, 0.2733, 0.5038**

## Background



This preview shows how black text looks on a background with the Yxy color 38.0698, 0.2733, 0.5038.



This preview shows how white text looks on a background with the Yxy color 38.0698, 0.2733, 0.5038.

# 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

38.0698, 0.2733, 0.5038

### Protanopia

37.5112, 0.4002, 0.4366

### Deuteranopia

37.2353, 0.4079, 0.3991



## Tritanopia

37.9991, 0.2325, 0.3056

# Trichromacy



## Original Color

38.0698, 0.2733, 0.5038



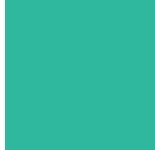
## Protanomaly

34.6897, 0.3281, 0.4723



## Deuteranomaly

33.8081, 0.3308, 0.4431



## Tritanomaly

37.3539, 0.2446, 0.3731

# Monochromacy



## Original Color

38.0698, 0.2733, 0.5038



## Achromatopsia

19.8069, 0.3127, 0.3290



## Achromatomaly

23.9694, 0.2790, 0.4015

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.0698, 0.2733, 0.5038 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, 191, 94)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 94)  
}
```

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, 191, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 94) }
```

## Border

The CSS property to change the border of an element to Yxy 38.0698, 0.2733, 0.5038 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, 191, 94) }
```

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

```
.border{ border-color:rgb(0, 191, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 191, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 94);  
box-shadow:4px 4px 4px 4px rgb(0, 191, 94)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 38.0698, 0.2733, 0.5038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 191, 94) }
```

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

```
.background{ background-color: rgb(0, 191,  
94) }
```

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