

# Converting Colors

$Y_{xy}(37.8186, 0.2838, 0.5415)$

Have a look what the booklet for  
Yxy(37.8186, 0.2838, 0.5415)  
contains.

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# Color

**Yxy(37.7165, 0.2837, 0.5413)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BF47
RGB	0, 191, 71
RGB Percent	0%, 75%, 28%
CMY	0.9998, 0.2510, 0.7217
CMYK	1.00, 0.00, 0.63, 0.25
HSL	142°, 100%, 37%
HSV	142°, 100%, 75%
XYZ	19.7675, 37.7165, 12.1936
YIQ	120.2110, -75.3160, -77.8120

# Conversions

## Conversions Part 2

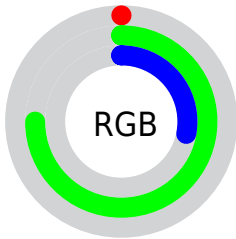
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 139, 191
Decimal	48967
CIELab	67.81, -65.02, 48.10
CIELCh	68, 80.875, 143.506
Yxy	37.7165, 0.2837, 0.5413
Android (android.graphics.Color)	4278239047 (0xFF00BF47)
YUV	120.2110, -24.2610, -105.4250
Hunter-Lab	61.4138, -50.0194, 31.2177

# Details

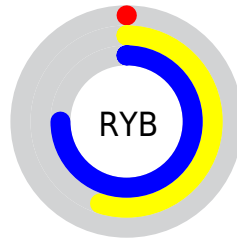
The Yxy color **37.7165, 0.2837, 0.5413** is a dark color, and the websafe version is hex **00CC66**. A complement of this color would be **12.4355, 0.4427, 0.2213**, and the grayscale version is **18.9542, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.8592, 0.2938, 0.4949**, and **17.6374, 0.2976, 0.5912** is the 20% darker color. If you saturate the color by 10%, you get **37.7175, 0.2837, 0.5413**, and if you desaturate by 10%, it is **38.0273, 0.2806, 0.5214**.

# Distribution



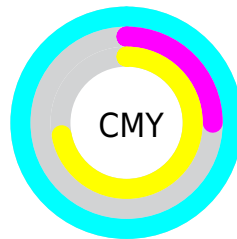
- Red (0%)
- Green (75%)
- Blue (28%)



- Red (0%)
- Yellow (55%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (63%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7165, 0.2837, 0.5413 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 37.7165, 0.2837, 0.5413 by changing the saturation by 10% instead.





 37.7165, 0.2837,  
0.5413


 37.7165, 0.2837,  
0.5413


336.4023, 0.3057,  
0.4223


 25.7627, 0.2750,  
0.5744


 71.6734, 0.2939,  
0.4952

 16.6462, 0.2617,  
0.6183


 94.4453, 0.2970,  
0.4787

 9.9826, 0.2401,  
0.6776


 121.5921, 0.2994,  
0.4651

 5.3874, 0.2113,  
0.7887

 153.4981, 0.3013,  
0.4538

 2.4763, 0.1039,  
0.8961

 190.5477, 0.3027,  
0.4441

 0.8647, 0.0000,  
1.0000


233.1253, 0.3039,


 0.0000, 0.0000,


0.4358

0.0000

281.6154, 0.3049,  
0.4286

 37.7165, 0.2837,  
0.5413

 37.7165, 0.2837,  
0.5413


 37.7175, 0.2837,  
0.5413

 38.0273, 0.2806,  
0.5214

 38.5058, 0.2788,  
0.4992

 39.2044, 0.2788,  
0.4754

 40.1496, 0.2806,  
0.4511

 41.3639, 0.2839,  
0.4270

■ 42.8671, 0.2885,  
0.4039

■ 44.6773, 0.2939,  
0.3824

■ 46.8108, 0.2999,  
0.3626

■ 49.2829, 0.3063,  
0.3448

# Harmonies

## Analogous

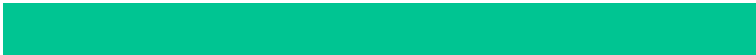
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.7165, 0.3894, 0.5424



37.7165, 0.2837, 0.5413



37.7165, 0.1908, 0.4270

# Triad

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



37.7165, 0.2837, 0.5413



37.7165, 0.1471, 0.1671



37.7165, 0.5242, 0.3150

# Complementary

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



37.7165, 0.2837, 0.5413



12.4355, 0.4427, 0.2213

# 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.



37.7165, 0.4292, 0.2472



37.7165, 0.2837, 0.5413



37.7165, 0.2047, 0.1666

# Square

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



37.7165, 0.2837, 0.5413



37.7165, 0.1254, 0.2025



37.7165, 0.3038, 0.1946



37.7165, 0.5393, 0.3900



# Rectangle

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



37.7165, 0.2837, 0.5413



37.7165, 0.1502, 0.3301



37.7165, 0.3038, 0.1946



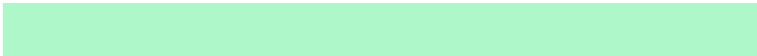
37.7165, 0.5001, 0.2914

# Sweetspot

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



37.7180, 0.2837, 0.5413



79.8398, 0.2936, 0.3834



41.3271, 0.3563, 0.5553



17.2157, 0.2912, 0.3924



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.



37.7180, 0.2837, 0.5413



67.5063, 0.2845, 0.5441



39.9999, 0.2365, 0.3714



10.7067, 0.3067, 0.3438



24.8008, 0.2830, 0.5388



0.9842, 0.2690, 0.4883



# Inverse Universe

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



12.4355, 0.4427, 0.2213



22.2205, 0.4452, 0.2226



11.1501, 0.6231, 0.3206



9.6345, 0.3193, 0.3147



8.1873, 0.4407, 0.2201

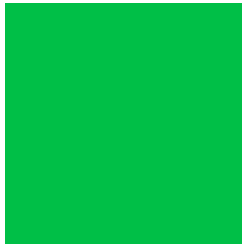


0.3330, 0.4050, 0.2004



# Previews

## White Background



This preview shows how the Yxy color 37.7165, 0.2837, 0.5413 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 37.7165, 0.2837, 0.5413 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 37.7165, 0.2837, 0.5413**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.7165, 0.2837, 0.5413.



This preview shows how white text looks on a background with the Yxy color 37.7165, 0.2837, 0.5413.

# 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

37.7165, 0.2837, 0.5413

### Protanopia

36.9771, 0.4174, 0.4580

### Deuteranopia

36.9276, 0.4308, 0.4216



## Tritanopia

37.6682, 0.2348, 0.3070

# Trichromacy



## Original Color

37.7165, 0.2837, 0.5413



## Protanomaly

34.3785, 0.3417, 0.5036



## Deuteranomaly

33.5789, 0.3493, 0.4772



## Tritanomaly

36.6899, 0.2498, 0.3879

# Monochromacy



## Original Color

37.7165, 0.2837, 0.5413



## Achromatopsia

18.7821, 0.3127, 0.3290



## Achromatomaly

23.0536, 0.2852, 0.4199

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7165, 0.2837, 0.5413 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, 71)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 71)  
}
```

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, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 71) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7165, 0.2837, 0.5413 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, 71) }
```

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

```
.border{ border-color:rgb(0, 191, 71) }
```

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, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 71);  
box-shadow:4px 4px 4px 4px rgb(0, 191, 71)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 37.7165, 0.2837, 0.5413 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, 71) }
```

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

```
.background{ background-color: rgb(0, 191,  
71) }
```

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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