

# Converting Colors

$Y_{xy}(37.8705, 0.2996, 0.5159)$

Have a look what the booklet for  
Yxy(37.8705, 0.2996, 0.5159)  
contains.

<b>Yxy(37.8705, 0.2996, 0.5159)</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(37.8705, 0.2996, 0.5159)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47BC4F
RGB	71, 188, 79
RGB Percent	28%, 74%, 31%
CMY	0.7215, 0.2627, 0.6903
CMYK	0.62, 0.00, 0.58, 0.26
HSL	124°, 47%, 51%
HSV	124°, 62%, 74%
XYZ	21.9926, 37.8705, 13.5435
YIQ	140.5910, -34.7430, -58.7030

# Conversions

## Conversions Part 2

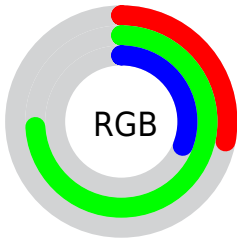
Format	Color
<a href="#">RYB</a>	<a href="#">71, 181, 188</a>
Decimal	<a href="#">4701263</a>
CIELab	<a href="#">67.93, -54.79, 44.86</a>
CIELCh	<a href="#">68, 70.810, 140.687</a>
Yxy	<a href="#">37.8705, 0.2996, 0.5159</a>
Android (android.graphics.Color)	<a href="#">4282891343</a> ( <a href="#">0xFF47BC4F</a> )
YUV	<a href="#">140.5910, -30.3644, -61.0313</a>
Hunter-Lab	<a href="#">61.5390, -43.9014, 30.0287</a>




# Details

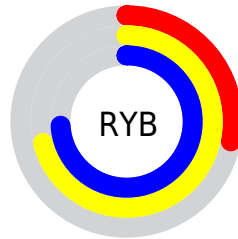
The Yxy color **37.8705, 0.2996, 0.5159** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **18.4955, 0.3293, 0.1950**, and the grayscale version is **26.5992, 0.3127, 0.3290**.




A 20% lighter version of the original color is **71.7688, 0.3058, 0.4760**, and **16.8496, 0.2936, 0.5770** is the 20% darker color. If you saturate the color by 10%, you get **37.0455, 0.2986, 0.5458**, and if you desaturate by 10%, it is **38.9857, 0.3012, 0.4829**.

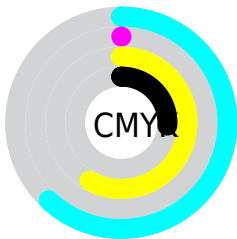
# Distribution







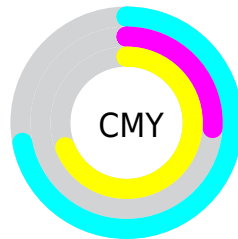
-  Red (28%)
-  Green (74%)
-  Blue (31%)






-  Red (28%)
-  Yellow (71%)
-  Blue (74%)



-  Cyan (62%)
-  Magenta (0%)
-  Yellow (58%)
-  Black (26%)




-  Cyan (72%)
-  Magenta (26%)
-  Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.8705, 0.2996, 0.5159 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 37.8705, 0.2996, 0.5159 by changing the saturation by 10% instead.





 37.8705, 0.2996,  
0.5159


 37.8705, 0.2996,  
0.5159


337.0641, 0.3119,  
0.4121


 25.8822, 0.2939,  
0.5447


 71.9096, 0.3058,  
0.4759

 16.7355, 0.2849,  
0.5828


 94.7292, 0.3076,  
0.4615


 10.0461, 0.2694,  
0.6348


 121.9280, 0.3089,  
0.4497

 5.4295, 0.2466,  
0.7229

 153.8904, 0.3099,  
0.4397

 2.5014, 0.1799,  
0.8201

 191.0009, 0.3106,  
0.4312

 0.8774, 0.0000,  
1.0000

233.6437, 0.3112,

 0.0000, 0.0000,

0.4240

0.0000

282.2033, 0.3116,  
0.4176

■ 37.8705, 0.2996,  
0.5159

■ 37.8705, 0.2996,  
0.5159

■ 37.0455, 0.2986,  
0.5458

■ 38.9857, 0.3012,  
0.4829

■ 36.4795, 0.2982,  
0.5703

■ 40.4097, 0.3032,  
0.4491

■ 36.1428, 0.2985,  
0.5875

■ 42.1647, 0.3054,  
0.4164

■ 35.9966, 0.2988,  
0.5957

■ 44.2698, 0.3078,  
0.3859

■ 46.7425, 0.3101,  
0.3584

■ 49.5993, 0.3122,  
0.3340

■ 52.8556, 0.3143,  
0.3127

■ 56.5258, 0.3162,  
0.2943

■ 60.6239, 0.3179,  
0.2784

# Harmonies

## Analogous

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



37.8705, 0.3951, 0.5154



37.8705, 0.2996, 0.5159



37.8705, 0.2125, 0.4257

# Triad

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



37.8705, 0.2996, 0.5159



37.8705, 0.1594, 0.1847



37.8705, 0.4934, 0.3135

# Complementary

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



37.8705, 0.2996, 0.5159



18.4955, 0.3293, 0.1950

# 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.



37.8705, 0.4053, 0.2511



37.8705, 0.2996, 0.5159



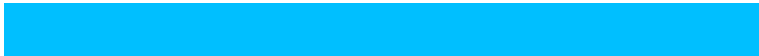
37.8705, 0.2099, 0.1807

# Square

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



37.8705, 0.2996, 0.5159



37.8705, 0.1422, 0.2226



37.8705, 0.2962, 0.2041



37.8705, 0.5170, 0.3830



# Rectangle

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



37.8705, 0.2996, 0.5159



37.8705, 0.1719, 0.3432



37.8705, 0.2962, 0.2041



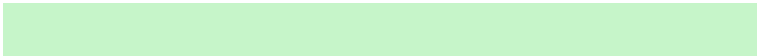
37.8705, 0.4698, 0.2916

# Sweetspot

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



37.8721, 0.2996, 0.5159



81.4675, 0.3084, 0.3775



46.1508, 0.3916, 0.4757



17.2579, 0.3078, 0.3857



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



37.8721, 0.2996, 0.5159



66.6729, 0.2984, 0.5563



39.1227, 0.2665, 0.4151



10.6599, 0.3107, 0.3511



24.5115, 0.2986, 0.5948



0.9638, 0.2932, 0.5754



# Inverse Universe

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



18.4955, 0.3293, 0.1950



28.5778, 0.3332, 0.1768



16.5969, 0.4191, 0.2626



9.6848, 0.3148, 0.3079



9.3960, 0.3386, 0.1639



0.3715, 0.3339, 0.1613



# Previews

## White Background



This preview shows how the Yxy color 37.8705, 0.2996, 0.5159 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 37.8705, 0.2996, 0.5159 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 37.8705, 0.2996, 0.5159**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.8705, 0.2996, 0.5159.



This preview shows how white text looks on a background with the Yxy color 37.8705, 0.2996, 0.5159.

# 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

37.8705, 0.2996, 0.5159

### Protanopia

37.0861, 0.4115, 0.4492

### Deuteranopia

37.2360, 0.4232, 0.4157



## Tritanopia

37.5216, 0.2461, 0.3059

# Trichromacy



## Original Color

37.8705, 0.2996, 0.5159



## Protanomaly

36.1459, 0.3615, 0.4775



## Deuteranomaly

35.5312, 0.3694, 0.4531



## Tritanomaly

36.9684, 0.2660, 0.3790

# Monochromacy



## Original Color

37.8705, 0.2996, 0.5159



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

29.4747, 0.3076, 0.3994

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.8705, 0.2996, 0.5159 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(71, 188, 79)` looks like.

```
.text, #text, p{  
    color:rgb(71, 188, 79)  
}
```

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(71, 188, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 188, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 37.8705, 0.2996, 0.5159 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(71, 188, 79) }
```

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

```
.border{ border-color:rgb(71, 188, 79) }
```

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

Here you see how a box with a 4 pixel rgb(71, 188, 79) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 188, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 188, 79);  
box-shadow:4px 4px 4px 4px rgb(71, 188,  
79) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.8705, 0.2996, 0.5159 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 188, 79) }
```

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

```
.background{ background-color: rgb(71, 188,  
79) }
```

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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