

# Converting Colors

$Y_{xy}(40.9089, 0.3017, 0.5806)$

Have a look what the booklet for  
Yxy(40.9089, 0.3017, 0.5806)  
contains.

<b>Yxy(40.8970, 0.3017, 0.5807)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(40.8970, 0.3017, 0.5807)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25C622
RGB	37, 198, 34
RGB Percent	15%, 78%, 13%
CMY	0.8545, 0.2235, 0.8669
CMYK	0.81, 0.00, 0.83, 0.22
HSL	119°, 71%, 45%
HSV	119°, 83%, 78%
XYZ	21.2478, 40.8970, 8.2822
YIQ	131.1650, -43.3120, -85.1360

# Conversions

## Conversions Part 2

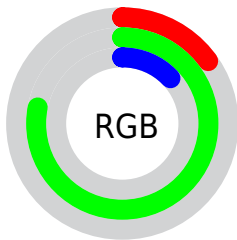
Format	Color
<b>RYB</b>	34, 198, 195
Decimal	2475554
CIELab	70.10, -67.68, 63.71
CIELCh	70, 92.952, 136.729
Yxy	40.8970, 0.3017, 0.5807
Android (android.graphics.Color)	4280665634 (0xFF25C622)
YUV	131.1650, -47.9023, -82.5827
Hunter-Lab	63.9508, -52.6066, 37.0869

# Details

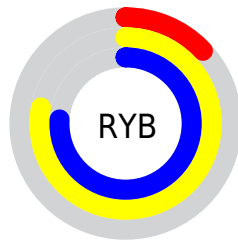
The Yxy color **40.8970, 0.3017, 0.5807** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **16.7977, 0.3166, 0.1601**, and the grayscale version is **22.9550, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.8389, 0.3112, 0.5292**, and **19.3460, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **40.5460, 0.3007, 0.5943**, and if you desaturate by 10%, it is **41.5081, 0.3030, 0.5586**.

# Distribution



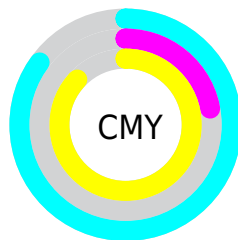
- Red (15%)
- Green (78%)
- Blue (13%)



- Red (13%)
- Yellow (78%)
- Blue (76%)



- Cyan (81%)
- Magenta (0%)
- Yellow (83%)
- Black (22%)




- Cyan (85%)
- Magenta (22%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.8970, 0.3017, 0.5807 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 40.8970, 0.3017, 0.5807 by changing the saturation by 10% instead.





 40.8970, 0.3017,  
0.5807


 40.8970, 0.3017,  
0.5807


349.8899, 0.3184,  
0.4434

 28.2386, 0.2927,  
0.6160


 76.5275, 0.3112,  
0.5293


 18.5056, 0.2782,  
0.6602


 100.2684, 0.3137,  
0.5103


 11.3136, 0.2556,  
0.7202


 128.4723, 0.3153,  
0.4944

 6.2782, 0.2142,  
0.7858

 161.5235, 0.3165,  
0.4810

 3.0150, 0.1332,  
0.8668

 199.8065, 0.3173,  
0.4695

 1.1395, 0.0000,  
1.0000

 243.7057, 0.3178,

 0.0115, 0.0000,

0.4596

1.0000

293.6053, 0.3182,  
0.4510

■ 0.0000, 0.0000,  
0.0000

■ 40.8970, 0.3017,  
0.5807

■ 40.8970, 0.3017,  
0.5807

■ 40.5460, 0.3007,  
0.5943

■ 41.5081, 0.3030,  
0.5586

■ 40.4129, 0.3004,  
0.5997

■ 42.4106, 0.3045,  
0.5295

■ 43.6369, 0.3061,  
0.4958

■ 45.2135, 0.3077,  
0.4603

■ 47.1645, 0.3091,  
0.4252

■ 49.5118, 0.3104,  
0.3923

■ 52.2754, 0.3115,  
0.3624

■ 55.4743, 0.3125,  
0.3359

■ 59.1261, 0.3133,  
0.3128

# Harmonies

## Analogous

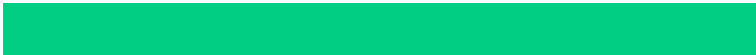
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



40.8970, 0.4151, 0.5467



40.8970, 0.3017, 0.5807



40.8970, 0.1962, 0.4774

# Triad

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



40.8970, 0.3017, 0.5807



40.8970, 0.1256, 0.1579



40.8970, 0.5310, 0.2931

# Complementary

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



40.8970, 0.3017, 0.5807



16.7977, 0.3166, 0.1601

# 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.



40.8970, 0.4102, 0.2243



40.8970, 0.3017, 0.5807



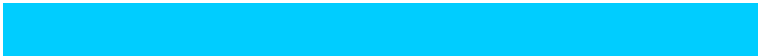
40.8970, 0.1767, 0.1509

# Square

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



40.8970, 0.3017, 0.5807



40.8970, 0.1102, 0.2041



40.8970, 0.2732, 0.1739



40.8970, 0.5653, 0.3698

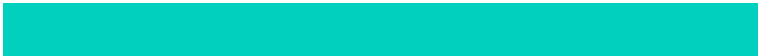


# Rectangle

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



40.8970, 0.3017, 0.5807



40.8970, 0.1466, 0.3637



40.8970, 0.2732, 0.1739



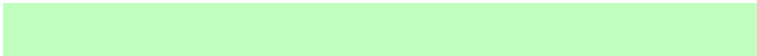
40.8970, 0.4979, 0.2690

# Sweetspot

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



40.8987, 0.3017, 0.5807



86.5619, 0.3101, 0.4003



50.0540, 0.4190, 0.4930



18.2068, 0.3096, 0.4120



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.



40.8987, 0.3017, 0.5807



71.5735, 0.3003, 0.5993



41.8641, 0.2715, 0.4796



11.8975, 0.3119, 0.3528



26.2858, 0.3005, 0.5996



1.2481, 0.3022, 0.5983



# Inverse Universe

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



16.7977, 0.3166, 0.1601



27.6226, 0.3161, 0.1517



14.5377, 0.4447, 0.2365



10.8058, 0.3135, 0.3062



10.1302, 0.3162, 0.1515

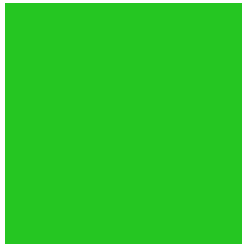


0.4831, 0.3172, 0.1521



# Previews

## White Background



This preview shows how the Yxy color 40.8970, 0.3017, 0.5807 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 40.8970, 0.3017, 0.5807 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

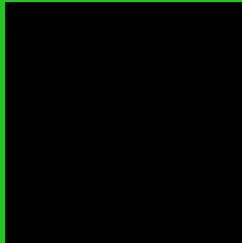
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.8970, 0.3017, 0.5807**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.8970, 0.3017, 0.5807.



This preview shows how white text looks on a background with the Yxy color 40.8970, 0.3017, 0.5807.

# 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

40.8970, 0.3017, 0.5807

### Protanopia

39.9004, 0.4357, 0.4823

### Deuteranopia

39.8929, 0.4555, 0.4450



## Tritanopia

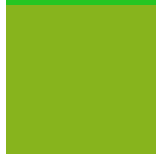
40.5283, 0.2386, 0.3064

# Trichromacy



## Original Color

40.8970, 0.3017, 0.5807



## Protanomaly

37.8821, 0.3712, 0.5299



## Deuteranomaly

36.8589, 0.3833, 0.5042



## Tritanomaly

39.5614, 0.2653, 0.4135

# Monochromacy



## Original Color

40.8970, 0.3017, 0.5807



## Achromatopsia

22.6966, 0.3127, 0.3290



## Achromatomaly

26.8286, 0.3084, 0.4409

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.8970, 0.3017, 0.5807 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(37, 198, 34)` looks like.

```
.text, #text, p{  
    color:rgb(37, 198, 34)  
}
```

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(37, 198, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 198, 34) }
```

## Border

The CSS property to change the border of an element to Yxy 40.8970, 0.3017, 0.5807 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(37, 198, 34) }
```

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

```
.border{ border-color:rgb(37, 198, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 198, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 198, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 198, 34);  
box-shadow:4px 4px 4px 4px rgb(37, 198,  
34) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.8970, 0.3017, 0.5807 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 198, 34) }
```

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

```
.background{ background-color: rgb(37, 198,  
34) }
```

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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