

# Converting Colors

$Y_{xy}(40.7554, 0.3003, 0.5452)$

Have a look what the booklet for  
Yxy(40.7554, 0.3003, 0.5452)  
contains.

<b>Yxy(40.7798, 0.3004, 0.5453)</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(40.7798, 0.3004, 0.5453)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3BC440
RGB	59, 196, 64
RGB Percent	23%, 77%, 25%
CMY	0.7690, 0.2313, 0.7490
CMYK	0.70, 0.00, 0.67, 0.23
HSL	122°, 54%, 50%
HSV	122°, 70%, 77%
XYZ	22.4652, 40.7798, 11.5392
YIQ	139.9890, -39.2800, -70.0960

# Conversions

## Conversions Part 2

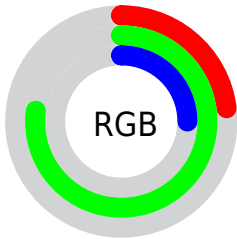
Format	Color
<a href="#">RYB</a>	<a href="#">59, 191, 196</a>
Decimal	<a href="#">3916864</a>
CIELab	<a href="#">70.02, -61.64, 53.67</a>
CIELCh	<a href="#">70, 81.727, 138.955</a>
Yxy	<a href="#">40.7798, 0.3004, 0.5453</a>
Android (android.graphics.Color)	<a href="#">4282106944 (0xFF3BC440)</a>
YUV	<a href="#">139.9890, -37.4626, -71.0274</a>
Hunter-Lab	<a href="#">63.8591, -48.9583, 33.9878</a>

# Details

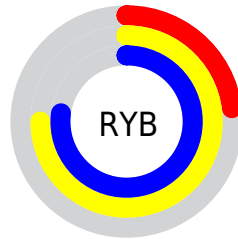
The Yxy color **40.7798, 0.3004, 0.5453** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **18.6130, 0.3262, 0.1800**, and the grayscale version is **26.3724, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4767, 0.3075, 0.5001**, and **19.0498, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **40.1121, 0.2996, 0.5705**, and if you desaturate by 10%, it is **41.7482, 0.3017, 0.5144**.

# Distribution



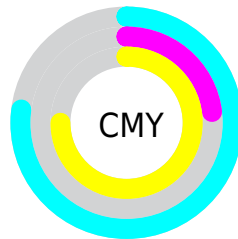
- Red (23%)
- Green (77%)
- Blue (25%)



- Red (23%)
- Yellow (75%)
- Blue (77%)



- Cyan (70%)
- Magenta (0%)
- Yellow (67%)
- Black (23%)




- Cyan (77%)
- Magenta (23%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.7798, 0.3004, 0.5453 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 40.7798, 0.3004, 0.5453 by changing the saturation by 10% instead.




 40.7798, 0.3004,  
0.5453


 40.7798, 0.3004,  
0.5453


349.3995, 0.3144,  
0.4265

 28.1471, 0.2935,  
0.5771


 76.3495, 0.3078,  
0.5002

 18.4365, 0.2825,  
0.6181


 100.0553, 0.3099,  
0.4838


 11.2639, 0.2638,  
0.6720

 128.2208, 0.3113,  
0.4701

 6.2446, 0.2374,  
0.7626

 161.2306, 0.3124,  
0.4586

 2.9944, 0.1674,  
0.8326

 199.4689, 0.3131,  
0.4488

 1.1288, 0.0000,  
1.0000

243.3203, 0.3137,

 0.0024, 0.0000,

0.4404

1.0000

293.1690, 0.3141,  
0.4330

■ 0.0000, 0.0000,  
0.0000

■ 40.7798, 0.3004,  
0.5453

■ 40.7798, 0.3004,  
0.5453

■ 40.1121, 0.2996,  
0.5705

■ 41.7482, 0.3017,  
0.5144

■ 39.7056, 0.2994,  
0.5881

■ 43.0415, 0.3033,  
0.4804


■ 39.5010, 0.2994,  
0.5978


■ 44.6869, 0.3052,  
0.4457

■ 39.5001, 0.2994,  
0.5978


■ 46.7077, 0.3072,  
0.4122

■ 49.1249, 0.3091,  
0.3812

 51.9583, 0.3110,  
0.3534

 55.2260, 0.3127,  
0.3289

 58.9454, 0.3143,  
0.3075

 63.1325, 0.3157,  
0.2891

# Harmonies

## Analogous

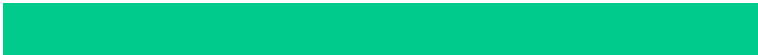
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



40.7798, 0.4045, 0.5319



40.7798, 0.3004, 0.5453



40.7798, 0.2045, 0.4471

# Triad

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



40.7798, 0.3004, 0.5453



40.7798, 0.1435, 0.1719



40.7798, 0.5114, 0.3049

# Complementary

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



40.7798, 0.3004, 0.5453



18.6130, 0.3262, 0.1800

# 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.



40.7798, 0.4090, 0.2391



40.7798, 0.3004, 0.5453



40.7798, 0.1949, 0.1666

# Square

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



40.7798, 0.3004, 0.5453



40.7798, 0.1270, 0.2135



40.7798, 0.2867, 0.1902



40.7798, 0.5394, 0.3783



# Rectangle

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



40.7798, 0.3004, 0.5453



40.7798, 0.1597, 0.3510



40.7798, 0.2867, 0.1902



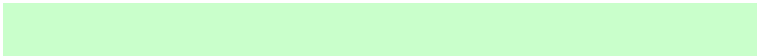
40.7798, 0.4837, 0.2818

# Sweetspot

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



40.7815, 0.3004, 0.5453



88.3330, 0.3089, 0.3853



50.9324, 0.4020, 0.4860



18.6343, 0.3083, 0.3939



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.



40.7815, 0.3004, 0.5453



72.2072, 0.2995, 0.5810



42.0779, 0.2667, 0.4365



11.2648, 0.3111, 0.3519



25.3807, 0.2992, 0.5972



1.0988, 0.2964, 0.5870



# Inverse Universe

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



18.6130, 0.3262, 0.1800



29.5490, 0.3286, 0.1651



16.2829, 0.4321, 0.2522



10.2408, 0.3143, 0.3071



9.8962, 0.3303, 0.1593

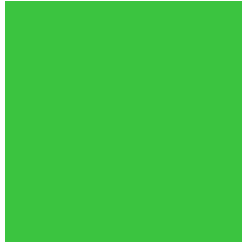


0.4296, 0.3281, 0.1581



# Previews

## White Background



This preview shows how the Yxy color 40.7798, 0.3004, 0.5453 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 40.7798, 0.3004, 0.5453 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 40.7798, 0.3004, 0.5453**

## Background



This preview shows how black text looks on a background with the Yxy color 40.7798, 0.3004, 0.5453.



This preview shows how white text looks on a background with the Yxy color 40.7798, 0.3004, 0.5453.

# 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

40.7798, 0.3004, 0.5453

### Protanopia

39.9920, 0.4226, 0.4649

### Deuteranopia

39.6994, 0.4390, 0.4293



## Tritanopia

40.4310, 0.2422, 0.3065

# Trichromacy



## Original Color

40.7798, 0.3004, 0.5453



## Protanomaly

38.3172, 0.3667, 0.5002



## Deuteranomaly

37.6956, 0.3764, 0.4762



## Tritanomaly

39.9754, 0.2653, 0.3932

# Monochromacy



## Original Color

40.7798, 0.3004, 0.5453



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

29.6910, 0.3078, 0.4144

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.7798, 0.3004, 0.5453 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(59, 196, 64)` looks like.

```
.text, #text, p{  
    color:rgb(59, 196, 64)  
}
```

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(59, 196, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 196, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 40.7798, 0.3004, 0.5453 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(59, 196, 64) }
```

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

```
.border{ border-color:rgb(59, 196, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 196, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 196, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 196, 64);  
box-shadow:4px 4px 4px 4px rgb(59, 196,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.7798, 0.3004, 0.5453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 196, 64) }
```

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

```
.background{ background-color: rgb(59, 196,  
64) }
```

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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