

# Converting Colors

$Y_{xy}(42.1622, 0.2910, 0.5105)$

Have a look what the booklet for  
Yxy(42.1622, 0.2910, 0.5105)  
contains.

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# Color

**Yxy(42.1662, 0.2914, 0.5109)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FC659
RGB	63, 198, 89
RGB Percent	25%, 78%, 35%
CMY	0.7526, 0.2235, 0.6511
CMYK	0.68, 0.00, 0.55, 0.22
HSL	132°, 54%, 51%
HSV	132°, 68%, 78%
XYZ	24.0502, 42.1662, 16.3168
YIQ	145.2090, -45.4710, -62.5190

# Conversions

## Conversions Part 2

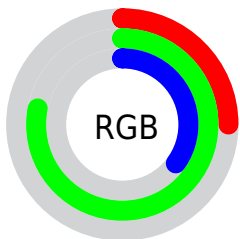
Format	Color
<a href="#">RYB</a>	<a href="#">63, 176, 198</a>
Decimal	<a href="#">4179545</a>
CIELab	<a href="#">70.99, -58.69, 43.74</a>
CIElCh	<a href="#">71, 73.196, 143.301</a>
Yxy	<a href="#">42.1662, 0.2914, 0.5109</a>
Android (android.graphics.Color)	<a href="#">4282369625 (0xFF3FC659)</a>
YUV	<a href="#">145.2090, -27.7110, -72.0973</a>
Hunter-Lab	<a href="#">64.9355, -47.5261, 30.5566</a>

# Details

The Yxy color **42.1662, 0.2914, 0.5109** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark muted green. A complement of this color would be **18.5524, 0.3534, 0.2016**, and the grayscale version is **28.5426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.9850, 0.2986, 0.4714**, and **19.7849, 0.2900, 0.5641** is the 20% darker color. If you saturate the color by 10%, you get **41.3880, 0.2913, 0.5382**, and if you desaturate by 10%, it is **43.2407, 0.2927, 0.4812**.

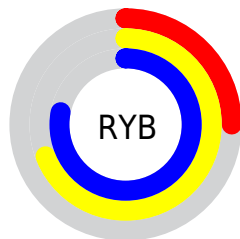
# Distribution



Red (25%)

Green (78%)

Blue (35%)



Red (25%)

Yellow (69%)

Blue (78%)

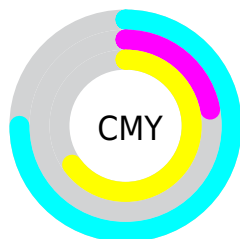


Cyan (68%)

Magenta (0%)

Yellow (55%)

Black (22%)



Cyan (75%)

Magenta (22%)


Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.1662, 0.2914, 0.5109 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 42.1662, 0.2914, 0.5109 by changing the saturation by 10% instead.




 42.1662, 0.2914,  
0.5109

 42.1662, 0.2914,  
0.5109


355.1714, 0.3074,  
0.4112


 29.2315, 0.2853,  
0.5381


 78.4511, 0.2987,  
0.4728


 19.2560, 0.2760,  
0.5741


 102.5700, 0.3010,  
0.4590

 11.8554, 0.2611,  
0.6231


 131.1858, 0.3027,  
0.4476

 6.6453, 0.2361,  
0.6933

 164.6829, 0.3041,  
0.4380

 3.2413, 0.1931,  
0.8069

 203.4456, 0.3052,  
0.4298

 1.2590, 0.0000,  
1.0000

247.8583, 0.3060,

 0.1091, 0.0000,

0.4227

1.0000

298.3055, 0.3068,  
0.4166

■ 0.0000, 0.0000,  
0.0000

■ 42.1662, 0.2914,  
0.5109

■ 42.1662, 0.2914,  
0.5109

■ 41.3880, 0.2913,  
0.5382

■ 43.2407, 0.2927,  
0.4812

■ 40.8707, 0.2925,  
0.5614

■ 44.6323, 0.2950,  
0.4509

■ 40.5713, 0.2946,  
0.5792

■ 46.3659, 0.2981,  
0.4213

■ 40.5275, 0.2950,  
0.5819

■ 48.4625, 0.3017,  
0.3936

■ 50.9412, 0.3056,  
0.3682

■ 53.8201, 0.3095,  
0.3455

■ 57.1157, 0.3134,  
0.3255

■ 60.8439, 0.3172,  
0.3079

■ 65.0197, 0.3208,  
0.2927

# Harmonies

## Analogous

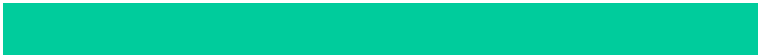
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.1662, 0.3870, 0.5182



42.1662, 0.2914, 0.5109



42.1662, 0.2065, 0.4147

# Triad

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



42.1662, 0.2914, 0.5109



42.1662, 0.1627, 0.1835



42.1662, 0.4979, 0.3194

# Complementary

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



42.1662, 0.2914, 0.5109



18.5524, 0.3534, 0.2016

# 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.



42.1662, 0.4144, 0.2562



42.1662, 0.2914, 0.5109



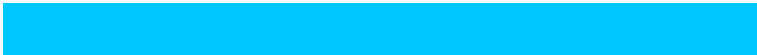
42.1662, 0.2162, 0.1820

# Square

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



42.1662, 0.2914, 0.5109



42.1662, 0.1428, 0.2180



42.1662, 0.3052, 0.2076



42.1662, 0.5152, 0.3893

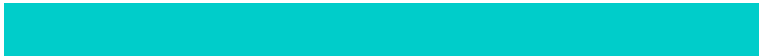


# Rectangle

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



42.1662, 0.2914, 0.5109



42.1662, 0.1682, 0.3329



42.1662, 0.3052, 0.2076



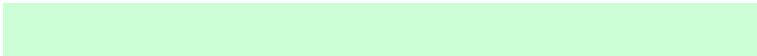
42.1662, 0.4762, 0.2973

# Sweetspot

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



42.1679, 0.2914, 0.5109



89.2016, 0.3047, 0.3735



49.6617, 0.3826, 0.4950



18.8188, 0.3036, 0.3806



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.



42.1679, 0.2914, 0.5109



72.7709, 0.2918, 0.5506



43.8229, 0.2560, 0.3980



11.9206, 0.3090, 0.3482



26.3661, 0.2945, 0.5801



1.2587, 0.2838, 0.5418



# Inverse Universe

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



18.5524, 0.3534, 0.2016



28.1057, 0.3647, 0.1882



16.6064, 0.4641, 0.2786



10.7804, 0.3166, 0.3105



9.4702, 0.3758, 0.1844



0.4577, 0.3623, 0.1770



# Previews

## White Background



This preview shows how the Yxy color 42.1662, 0.2914, 0.5109 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 42.1662, 0.2914, 0.5109 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 42.1662, 0.2914, 0.5109**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.1662, 0.2914, 0.5109.



This preview shows how white text looks on a background with the Yxy color 42.1662, 0.2914, 0.5109.

# 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

42.1662, 0.2914, 0.5109

### Protanopia

41.5576, 0.4065, 0.4455

### Deuteranopia

41.1344, 0.4186, 0.4094



## Tritanopia

41.8762, 0.2420, 0.3068

# Trichromacy



## Original Color

42.1662, 0.2914, 0.5109



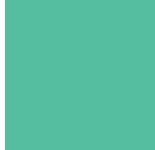
## Protanomaly

40.0253, 0.3535, 0.4743



## Deuteranomaly

39.0450, 0.3610, 0.4475



## Tritanomaly

41.2963, 0.2603, 0.3770

# Monochromacy



## Original Color

42.1662, 0.2914, 0.5109



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

31.6764, 0.3007, 0.3961

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.1662, 0.2914, 0.5109 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(63, 198, 89)` looks like.

```
.text, #text, p{  
    color:rgb(63, 198, 89)  
}
```

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(63, 198, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 198, 89) }
```

## Border

The CSS property to change the border of an element to Yxy 42.1662, 0.2914, 0.5109 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(63, 198, 89) }
```

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

```
.border{ border-color:rgb(63, 198, 89) }
```

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

Here you see how a box with a 4 pixel rgb(63, 198, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 198, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 198, 89);  
box-shadow:4px 4px 4px 4px rgb(63, 198,  
89) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.1662, 0.2914, 0.5109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 198, 89) }
```

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

```
.background{ background-color: rgb(63, 198,  
89) }
```

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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