

# Converting Colors

$Y_{xy}(35.2157, 0.2510, 0.3157)$

Have a look what the booklet for  
Yxy(35.2157, 0.2510, 0.3157)  
contains.

|  |    |
|--|----|
| <b>Yxy(35.0738, 0.2506, 0.3146)</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(35.0738, 0.2506, 0.3146)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 63ABB4                       |
| RGB         | 99, 171, 180                 |
| RGB Percent | 39%, 67%, 71%                |
| CMY         | 0.6121, 0.3293, 0.2941       |
| CMYK        | 0.45, 0.05, 0.00, 0.29       |
| HSL         | 187°, 35%, 55%               |
| HSV         | 187°, 45%, 71%               |
| XYZ         | 27.9386, 35.0738, 48.4745    |
| YIQ         | 150.4980, -45.8010, -12.4650 |

# Conversions

## Conversions Part 2

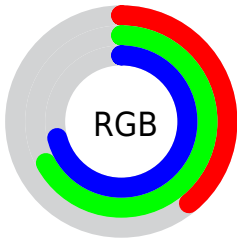
| Format                              | Color   |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">99, 137, 180</a>                    |
| Decimal                             | <a href="#">6532020</a>                         |
| CIELab                              | <a href="#">65.81, -20.16, -11.67</a>           |
| CIElCh                              | <a href="#">66, 23.297, 210.061</a>             |
| Yxy                                 | <a href="#">35.0738, 0.2506,<br/>0.3146</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4284722100<br/>(0xFF63ABB4)</a>     |
| YUV                                 | <a href="#">150.4980, 14.5445,<br/>-45.1637</a> |
| Hunter-Lab                          | <a href="#">59.2231, -19.4328,<br/>-7.0731</a>  |

# Details

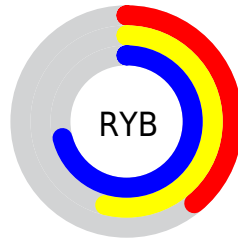
The Yxy color **35.0738, 0.2506, 0.3146** is a light color, and the websafe version is hex **669999**. A complement of this color would be **21.3032, 0.4246, 0.3424**, and the grayscale version is **30.6653, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.8643, 0.2622, 0.3182**, and **15.2182, 0.2322, 0.3105** is the 20% darker color. If you saturate the color by 10%, you get **33.4256, 0.2401, 0.3109**, and if you desaturate by 10%, it is **36.9619, 0.2626, 0.3182**.

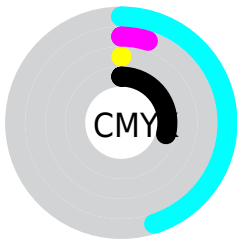
# Distribution



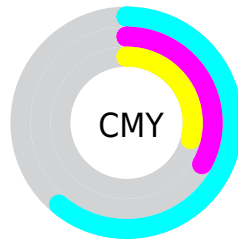
- Red (39%)
- Green (67%)
- Blue (71%)



- Red (39%)
- Yellow (54%)
- Blue (71%)



- Cyan (45%)
- Magenta (5%)
- Yellow (0%)
- Black (29%)




- Cyan (61%)
- Magenta (33%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.0738, 0.2506, 0.3146 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 35.0738, 0.2506, 0.3146 by changing the saturation by 10% instead.





 35.0738, 0.2506,  
0.3146


 35.0738, 0.2506,  
0.3146


324.8940, 0.2825,  
0.3228


 23.7197, 0.2424,  
0.3122


 67.6001, 0.2623,  
0.3178

 15.1258, 0.2318,  
0.3089


 89.5411, 0.2667,  
0.3190

 8.9078, 0.2175,  
0.3040


 115.7798, 0.2704,  
0.3199

 4.6811, 0.1973,  
0.2964

 146.7008, 0.2735,  
0.3207

 2.0614, 0.1670,  
0.2831

182.6882, 0.2762,  
0.3214

 0.6428, 0.0497,  
0.2691

224.1267, 0.2786,

 0.0000, 0.0000,

0.3219

0.0000

271.4004, 0.2806,  
0.3224

■ 35.0738, 0.2506,  
0.3146

■ 35.0738, 0.2506,  
0.3146

■ 33.4256, 0.2401,  
0.3109

■ 36.9619, 0.2626,  
0.3182

■ 31.9980, 0.2314,  
0.3071

■ 39.0997, 0.2759,  
0.3215

■ 30.7753, 0.2245,  
0.3033

■ 41.5014, 0.2901,  
0.3247


■ 29.7376, 0.2195,  
0.2995

■ 44.1786, 0.3050,  
0.3276

■ 28.8609, 0.2162,  
0.2957


■ 47.1426, 0.3203,  
0.3303

 28.4597, 0.2150,  
0.2938

 50.4038, 0.3358,  
0.3327

 53.9722, 0.3512,  
0.3348

 57.8572, 0.3663,  
0.3367

 60.9306, 0.3760,  
0.3386

# Harmonies

## Analogous

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



35.0738, 0.2704, 0.3492



35.0738, 0.2506, 0.3146



35.0738, 0.2466, 0.2869

# Triad

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



35.0738, 0.2506, 0.3146



35.0738, 0.3205, 0.2854



35.0738, 0.3678, 0.3870

# Complementary

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



35.0738, 0.2506, 0.3146



21.3032, 0.4246, 0.3424

# 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.



35.0738, 0.3834, 0.3659



35.0738, 0.2506, 0.3146



35.0738, 0.3554, 0.3087

# Square

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



35.0738, 0.2506, 0.3146



35.0738, 0.2853, 0.2722



35.0738, 0.3790, 0.3375



35.0738, 0.3376, 0.3930



# Rectangle

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



35.0738, 0.2506, 0.3146



35.0738, 0.2530, 0.2755



35.0738, 0.3790, 0.3375



35.0738, 0.3750, 0.3813

# Sweetspot

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



35.0752, 0.2506, 0.3146



75.6290, 0.2913, 0.3249



36.3502, 0.3009, 0.4537



16.1351, 0.2882, 0.3243



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



35.0752, 0.2506, 0.3146



60.6458, 0.2402, 0.3110



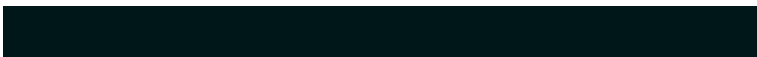
22.2677, 0.2389, 0.2470



9.4676, 0.2986, 0.3264



19.9250, 0.2151, 0.2943



0.6724, 0.2180, 0.3048



# Inverse Universe

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



21.5502, 0.3284, 0.2311



33.4993, 0.3326, 0.2123



31.6443, 0.3976, 0.3982



8.6302, 0.3154, 0.3090



8.5516, 0.3505, 0.1704



0.2737, 0.3412, 0.1653



# Previews

## White Background



This preview shows how the Yxy color 35.0738, 0.2506, 0.3146 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

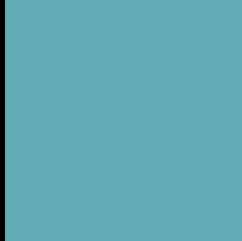
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.0738, 0.2506, 0.3146 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

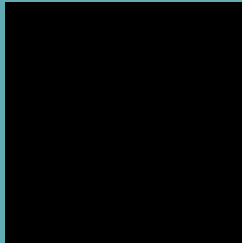
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

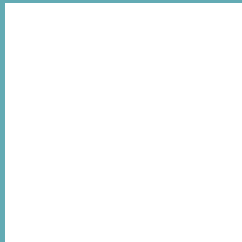
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 35.0738, 0.2506, 0.3146**

## Background



This preview shows how black text looks on a background with the Yxy color 35.0738, 0.2506, 0.3146.



This preview shows how white text looks on a background with the Yxy color 35.0738, 0.2506, 0.3146.

# 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

35.0738, 0.2506, 0.3146

### Protanopia

34.7014, 0.3004, 0.3087

### Deuteranopia

34.6481, 0.2957, 0.2896



## Tritanopia

34.9195, 0.2485, 0.3069

# Trichromacy



## Original Color

35.0738, 0.2506, 0.3146

## Protanomaly

34.6079, 0.2798, 0.3108

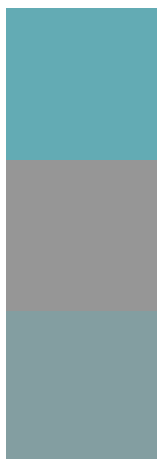
## Deuteranomaly

34.4426, 0.2767, 0.2978

## Tritanomaly

34.8777, 0.2491, 0.3084

# Monochromacy



## Original Color

35.0738, 0.2506, 0.3146

## Achromatopsia

30.4987, 0.3127, 0.3290

## Achromatomaly

31.8522, 0.2852, 0.3242

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.0738, 0.2506, 0.3146 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(99, 171, 180)` looks like.

```
.text, #text, p{  
    color:rgb(99, 171, 180)  
}
```

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(99, 171, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 171, 180) }
```

## Border

The CSS property to change the border of an element to Yxy 35.0738, 0.2506, 0.3146 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(99, 171, 180) }
```

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

```
.border{ border-color:rgb(99, 171, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 171, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 171, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 171, 180);  
box-shadow:4px 4px 4px 4px rgb(99, 171,  
180) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.0738, 0.2506, 0.3146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 171, 180) }
```

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

```
.background{ background-color: rgb(99, 171,  
180) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor