

# Converting Colors

$Y_{xy}(35.8515, 0.2546, 0.3459)$

Have a look what the booklet for  
Yxy(35.8515, 0.2546, 0.3459)  
contains.

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# Color

**Yxy(35.8785, 0.2544, 0.3453)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58B0A6
RGB	88, 176, 166
RGB Percent	35%, 69%, 65%
CMY	0.6547, 0.3098, 0.3491
CMYK	0.50, 0.00, 0.06, 0.31
HSL	173°, 36%, 52%
HSV	173°, 50%, 69%
XYZ	26.4335, 35.8785, 41.5933
YIQ	148.5480, -49.2380, -21.7660

# Conversions

## Conversions Part 2

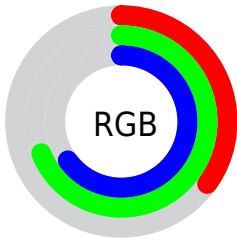
<b>Format</b>	<b>Color</b>
<b>RYB</b>	88, 135, 176
Decimal	5812390
CIELab	66.43, -28.92, -3.00
CIELCh	66, 29.075, 185.925
Yxy	35.8785, 0.2544, 0.3453
Android (android.graphics.Color)	4284002470 (0xFF58B0A6)
YUV	148.5480, 8.6038, -53.1006
Hunter-Lab	59.8987, -26.0499, 0.7584

# Details

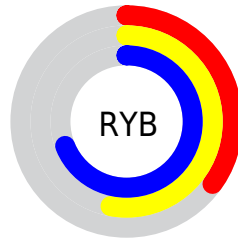
The Yxy color **35.8785, 0.2544, 0.3453** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **17.1007, 0.4344, 0.3147**, and the grayscale version is **29.8385, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.8630, 0.2655, 0.3423**, and **15.5875, 0.2365, 0.3504** is the 20% darker color. If you saturate the color by 10%, you get **35.0486, 0.2468, 0.3491**, and if you desaturate by 10%, it is **36.9197, 0.2637, 0.3416**.

# Distribution



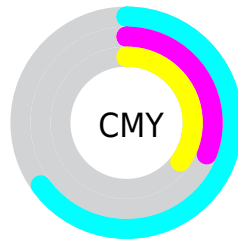
- Red (35%)
- Green (69%)
- Blue (65%)



- Red (35%)
- Yellow (53%)
- Blue (69%)



- Cyan (50%)
- Magenta (0%)
- Yellow (6%)
- Black (31%)



- Cyan (65%)
- Magenta (31%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.8785, 0.2544, 0.3453 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 35.8785, 0.2544, 0.3453 by changing the saturation by 10% instead.




 35.8785, 0.2544,  
0.3453


 35.8785, 0.2544,  
0.3453


328.4292, 0.2845,  
0.3372

 24.3404, 0.2466,  
0.3473


 68.8445, 0.2655,  
0.3424


 15.5863, 0.2364,  
0.3499


 91.0411, 0.2697,  
0.3412

 9.2319, 0.2226,  
0.3532


 117.5594, 0.2731,  
0.3403

 4.8927, 0.2029,  
0.3577

 148.7838, 0.2761,  
0.3395

 2.1845, 0.1725,  
0.3639

185.0985, 0.2786,  
0.3388

 0.7115, 0.0000,  
0.4195

226.8880, 0.2808,

 0.0000, 0.0000,

0.3382

0.0000

274.5368, 0.2828,  
0.3376

■ 35.8785, 0.2544,  
0.3453

■ 35.8785, 0.2544,  
0.3453

■ 35.0486, 0.2468,  
0.3491

■ 36.9197, 0.2637,  
0.3416

■ 34.4106, 0.2411,  
0.3530

■ 38.1817, 0.2744,  
0.3381

■ 33.9487, 0.2373,  
0.3569


■ 39.6784, 0.2863,  
0.3348

■ 33.6426, 0.2353,  
0.3608

■ 41.4213, 0.2992,  
0.3318

■ 33.4492, 0.2347,  
0.3647


■ 43.4213, 0.3128,  
0.3290

 33.4487, 0.2346,  
0.3647

 45.6884, 0.3267,  
0.3265

 48.2324, 0.3408,  
0.3242

 51.0623, 0.3549,  
0.3222

 54.1868, 0.3687,  
0.3205

# Harmonies

## Analogous

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



35.8785, 0.2906, 0.3859



35.8785, 0.2544, 0.3453



35.8785, 0.2342, 0.3027

# Triad

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



35.8785, 0.2544, 0.3453



35.8785, 0.2865, 0.2619



35.8785, 0.3981, 0.3796

# Complementary

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



35.8785, 0.2544, 0.3453



17.1007, 0.4344, 0.3147

# 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.



35.8785, 0.3981, 0.3455



35.8785, 0.2544, 0.3453



35.8785, 0.3310, 0.2805

# Square

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



35.8785, 0.2544, 0.3453



35.8785, 0.2517, 0.2582



35.8785, 0.3729, 0.3102



35.8785, 0.3741, 0.4037



# Rectangle

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



35.8785, 0.2544, 0.3453



35.8785, 0.2315, 0.2803



35.8785, 0.3729, 0.3102



35.8785, 0.4011, 0.3689

# Sweetspot

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



35.8799, 0.2544, 0.3453



73.3954, 0.2923, 0.3334



34.3701, 0.3130, 0.4812



15.7679, 0.2897, 0.3340



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



35.8799, 0.2544, 0.3453



63.4254, 0.2461, 0.3495



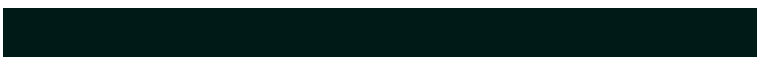
24.6425, 0.2374, 0.2710



9.6145, 0.3001, 0.3316



24.5473, 0.2345, 0.3643



0.7771, 0.2315, 0.3534



# Inverse Universe

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



17.1007, 0.4344, 0.3147



25.4322, 0.4793, 0.3128



23.7964, 0.4233, 0.3787



8.5205, 0.3270, 0.3264



6.8142, 0.6240, 0.3211

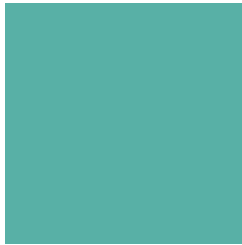


0.2195, 0.5709, 0.2918



# Previews

## White Background



This preview shows how the Yxy color 35.8785, 0.2544, 0.3453 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 35.8785, 0.2544, 0.3453 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 35.8785, 0.2544, 0.3453**

## Background



This preview shows how black text looks on a background with the Yxy color 35.8785, 0.2544, 0.3453.

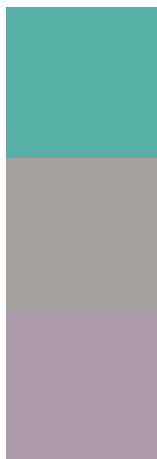


This preview shows how white text looks on a background with the Yxy color 35.8785, 0.2544, 0.3453.

# 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

35.8785, 0.2544, 0.3453

### Protanopia

35.4684, 0.3193, 0.3334

### Deuteranopia

35.4499, 0.3156, 0.3094



## Tritanopia

35.9079, 0.2448, 0.3070

# Trichromacy



**Original Color**

35.8785, 0.2544, 0.3453

**Protanomaly**

35.0447, 0.2908, 0.3382

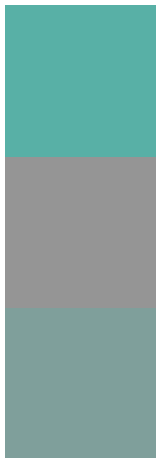
**Deuteranomaly**

34.7217, 0.2878, 0.3198

**Tritanomaly**

35.8021, 0.2481, 0.3208

# Monochromacy



**Original Color**

35.8785, 0.2544, 0.3453

**Achromatopsia**

30.0544, 0.3127, 0.3290

**Achromatomaly**

31.6749, 0.2866, 0.3354

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.8785, 0.2544, 0.3453 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(88, 176, 166)` looks like.

```
.text, #text, p{  
    color:rgb(88, 176, 166)  
}
```

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(88, 176, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 176, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 35.8785, 0.2544, 0.3453 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(88, 176, 166) }
```

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

```
.border{ border-color:rgb(88, 176, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 176, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 176, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 176, 166);  
box-shadow:4px 4px 4px 4px rgb(88, 176,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.8785, 0.2544, 0.3453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 176, 166) }
```

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

```
.background{ background-color: rgb(88, 176,  
166) }
```

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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