

# Converting Colors

$Y_{xy}(48.7129, 0.2530, 0.3429)$

Have a look what the booklet for  
Yxy(48.7129, 0.2530, 0.3429)  
contains.

<b>Yxy(48.8135, 0.2532, 0.3433)</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(48.8135, 0.2532, 0.3433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65CAC0
RGB	101, 202, 192
RGB Percent	40%, 79%, 75%
CMY	0.6037, 0.2078, 0.2472
CMYK	0.50, 0.00, 0.05, 0.21
HSL	174°, 49%, 59%
HSV	174°, 50%, 79%
XYZ	36.0023, 48.8135, 57.3733
YIQ	170.6610, -56.9860, -24.5220

# Conversions

## Conversions Part 2

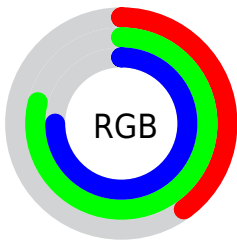
Format	Color
<a href="#">RYB</a>	<a href="#">101, 154, 202</a>
Decimal	<a href="#">6671040</a>
CIELab	<a href="#">75.34, -31.91, -4.07</a>
CIELCh	<a href="#">75, 32.173, 187.260</a>
Yxy	<a href="#">48.8135, 0.2532, 0.3433</a>
Android (android.graphics.Color)	<a href="#">4284861120 (0xFF65CAC0)</a>
YUV	<a href="#">170.6610, 10.5201, -61.0927</a>
Hunter-Lab	<a href="#">69.8667, -30.2857, 0.2187</a>

# Details

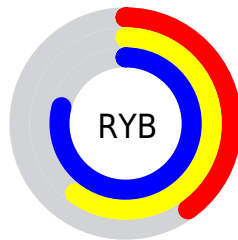
The Yxy color **48.8135, 0.2532, 0.3433** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **23.0228, 0.4384, 0.3165**, and the grayscale version is **40.5190, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.6682, 0.2633, 0.3366**, and **23.1248, 0.2365, 0.3450** is the 20% darker color. If you saturate the color by 10%, you get **47.7002, 0.2456, 0.3466**, and if you desaturate by 10%, it is **50.2184, 0.2626, 0.3401**.

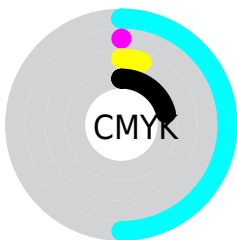
# Distribution



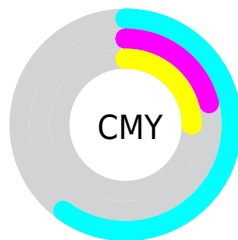
- Red (40%)
- Green (79%)
- Blue (75%)



- Red (40%)
- Yellow (60%)
- Blue (79%)



- Cyan (50%)
- Magenta (0%)
- Yellow (5%)
- Black (21%)




- Cyan (60%)
- Magenta (21%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8135, 0.2532, 0.3433 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 48.8135, 0.2532, 0.3433 by changing the saturation by 10% instead.





 48.8135, 0.2532,  
0.3433

 48.8135, 0.2532,  
0.3433

382.0076, 0.2823,  
0.3366


 34.4716, 0.2461,  
0.3448


 88.4144, 0.2636,  
0.3410


 23.2561, 0.2372,  
0.3467


 114.4421, 0.2676,  
0.3401

 14.7827, 0.2255,  
0.3490


 145.1339, 0.2710,  
0.3393

 8.6670, 0.2096,  
0.3519

 180.8742, 0.2739,  
0.3386

 4.5246, 0.1870,  
0.3557

222.0473, 0.2764,  
0.3380

 1.9712, 0.1525,  
0.3601

269.0377, 0.2786,

 0.5906, 0.0000,

0.3375

0.3891

322.2296, 0.2806,  
0.3371

0.0000, 0.0000,  
0.0000

48.8135, 0.2532,  
0.3433

48.8135, 0.2532,  
0.3433

47.7002, 0.2456,  
0.3466

50.2184, 0.2626,  
0.3401

46.8513, 0.2398,  
0.3500

51.9284, 0.2735,  
0.3370

46.2445, 0.2359,  
0.3535


53.9630, 0.2857,  
0.3341


45.8510, 0.2339,  
0.3569

56.3383, 0.2989,  
0.3314

45.6164, 0.2334,  
0.3602


59.0695, 0.3127,  
0.3290

 45.6159, 0.2334,  
0.3602

 62.1708, 0.3271,  
0.3268

 65.6556, 0.3415,  
0.3248

 68.0572, 0.3499,  
0.3229

 68.1567, 0.3484,  
0.3209

# Harmonies

## Analogous

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



48.8135, 0.2888, 0.3843



48.8135, 0.2532, 0.3433



48.8135, 0.2339, 0.3010

# Triad

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



48.8135, 0.2532, 0.3433



48.8135, 0.2884, 0.2625



48.8135, 0.3974, 0.3809

# Complementary

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



48.8135, 0.2532, 0.3433



23.0228, 0.4384, 0.3165

# 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.



48.8135, 0.3986, 0.3471



48.8135, 0.2532, 0.3433



48.8135, 0.3330, 0.2817

# Square

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



48.8135, 0.2532, 0.3433



48.8135, 0.2530, 0.2581



48.8135, 0.3744, 0.3118



48.8135, 0.3725, 0.4043



# Rectangle

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



48.8135, 0.2532, 0.3433



48.8135, 0.2317, 0.2792



48.8135, 0.3744, 0.3118



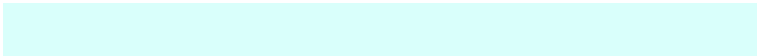
48.8135, 0.4007, 0.3703

# Sweetspot

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



48.8154, 0.2532, 0.3433



93.2110, 0.2919, 0.3328



46.5710, 0.3119, 0.4834



19.7706, 0.2891, 0.3334



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.



48.8154, 0.2532, 0.3433



80.6237, 0.2450, 0.3469



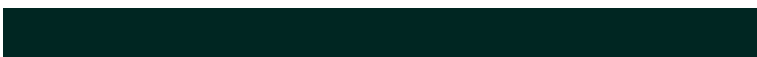
32.7407, 0.2362, 0.2677



12.7071, 0.2997, 0.3313



29.3603, 0.2333, 0.3598



1.5204, 0.2314, 0.3531



# Inverse Universe

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



23.0228, 0.4384, 0.3165



32.0520, 0.4837, 0.3150



32.6738, 0.4236, 0.3813



11.2315, 0.3275, 0.3267



8.1188, 0.6275, 0.3230

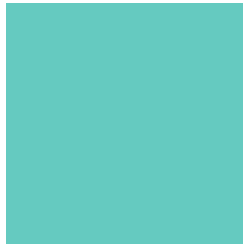


0.4252, 0.5915, 0.3032



# Previews

## White Background



This preview shows how the Yxy color 48.8135, 0.2532, 0.3433 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

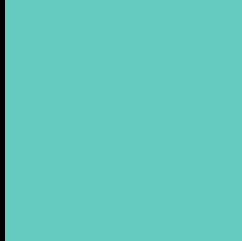
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.8135, 0.2532, 0.3433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

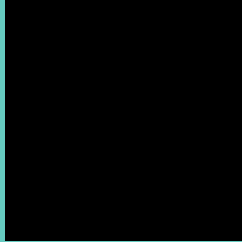
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

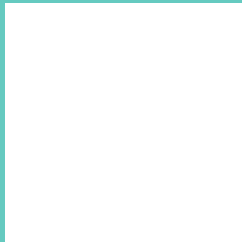
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.8135, 0.2532, 0.3433**

## Background



This preview shows how black text looks on a background with the Yxy color 48.8135, 0.2532, 0.3433.

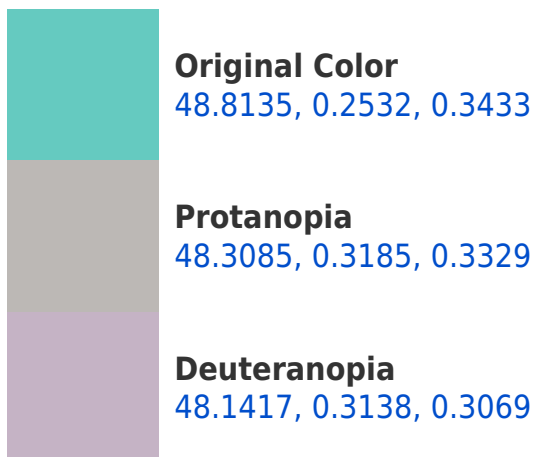


This preview shows how white text looks on a background with the Yxy color 48.8135, 0.2532, 0.3433.

# 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





## Tritanopia

48.9413, 0.2437, 0.3068

# Trichromacy



**Original Color**

48.8135, 0.2532, 0.3433

**Protanomaly**

47.8323, 0.2896, 0.3371

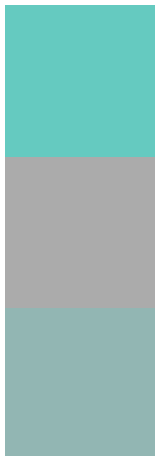
**Deuteranomaly**

47.1622, 0.2870, 0.3183

**Tritanomaly**

48.8168, 0.2466, 0.3190

# Monochromacy



**Original Color**

48.8135, 0.2532, 0.3433

**Achromatopsia**

40.7240, 0.3127, 0.3290

**Achromatomaly**

42.8216, 0.2857, 0.3332

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8135, 0.2532, 0.3433 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(101, 202, 192)` looks like.

```
.text, #text, p{  
    color:rgb(101, 202, 192)  
}
```

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(101, 202, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 202, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8135, 0.2532, 0.3433 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(101, 202, 192) }
```

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

```
.border{ border-color:rgb(101, 202, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 202, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(101, 202, 192); -webkit-box-shadow:4px 4px 4px 4px rgb(101, 202, 192); box-shadow:4px 4px 4px 4px rgb(101, 202, 192) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8135, 0.2532, 0.3433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 202, 192) }
```

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

```
.background{ background-color: rgb(101,  
202, 192) }
```

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