

# Converting Colors

$Y_{xy}(49.2845, 0.2543, 0.3438)$

Have a look what the booklet for  
Yxy(49.2845, 0.2543, 0.3438)  
contains.

<b>Yxy(49.4012, 0.2544, 0.3446)</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(49.4012, 0.2544, 0.3446)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67CBC0
RGB	103, 203, 192
RGB Percent	40%, 80%, 75%
CMY	0.5958, 0.2039, 0.2470
CMYK	0.49, 0.00, 0.05, 0.20
HSL	173°, 49%, 60%
HSV	173°, 49%, 80%
XYZ	36.4703, 49.4012, 57.4866
YIQ	171.8460, -56.0690, -24.6210

# Conversions

## Conversions Part 2

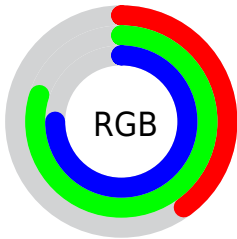
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">103, 156, 203</a>
Decimal	<a href="#">6802368</a>
CIELab	<a href="#">75.70, -31.93, -3.54</a>
CIELCh	<a href="#">76, 32.124, 186.331</a>
Yxy	<a href="#">49.4012, 0.2544, 0.3446</a>
Android (android.graphics.Color)	<a href="#">4284992448</a> ( <a href="#">0xFF67CBC0</a> )
YUV	<a href="#">171.8460, 9.9359, -60.3779</a>
Hunter-Lab	<a href="#">70.2860, -30.3796, 0.7072</a>

# Details

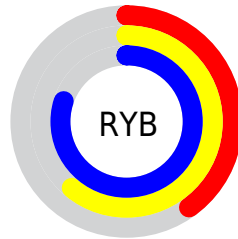
The Yxy color **49.4012, 0.2544, 0.3446** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **23.6267, 0.4340, 0.3153**, and the grayscale version is **41.1527, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.7709, 0.2637, 0.3366**, and **23.5153, 0.2384, 0.3469** is the 20% darker color. If you saturate the color by 10%, you get **48.2458, 0.2467, 0.3483**, and if you desaturate by 10%, it is **50.8534, 0.2638, 0.3410**.

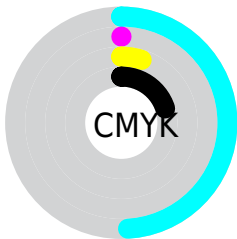
# Distribution



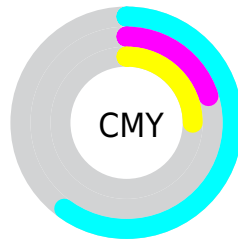
- Red (40%)
- Green (80%)
- Blue (75%)



- Red (40%)
- Yellow (61%)
- Blue (80%)



- Cyan (49%)
- Magenta (0%)
- Yellow (5%)
- Black (20%)



- Cyan (60%)
- Magenta (20%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.4012, 0.2544, 0.3446 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 49.4012, 0.2544, 0.3446 by changing the saturation by 10% instead.





 49.4012, 0.2544,  
0.3446

 49.4012, 0.2544,  
0.3446


384.3196, 0.2829,  
0.3373

 34.9378, 0.2475,  
0.3463


 89.2870, 0.2646,  
0.3420

 23.6150, 0.2387,  
0.3484


 115.4783, 0.2685,  
0.3410

 15.0483, 0.2273,  
0.3510


 146.3477, 0.2718,  
0.3402

 8.8533, 0.2118,  
0.3544

 182.2795, 0.2746,  
0.3394

 4.6456, 0.1897,  
0.3589

223.6582, 0.2771,  
0.3388

 2.0409, 0.1560,  
0.3647

270.8682, 0.2793,

 0.6311, 0.0000,

0.3382

0.4030

324.2939, 0.2812,  
0.3377

0.0000, 0.0000,  
0.0000

49.4012, 0.2544,  
0.3446

49.4012, 0.2544,  
0.3446

48.2458, 0.2467,  
0.3483

50.8534, 0.2638,  
0.3410

47.3599, 0.2409,  
0.3521

52.6159, 0.2747,  
0.3376

46.7211, 0.2370,  
0.3559


54.7083, 0.2869,  
0.3344


46.3006, 0.2349,  
0.3597

57.1468, 0.3000,  
0.3315


46.0494, 0.2344,  
0.3634

59.9469, 0.3138,  
0.3288

 46.0321, 0.2344,  
0.3637

 63.1226, 0.3280,  
0.3264

 66.6877, 0.3423,  
0.3242

 68.6155, 0.3483,  
0.3221

 68.7274, 0.3466,  
0.3198

# Harmonies

## Analogous

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



49.4012, 0.2902, 0.3850



49.4012, 0.2544, 0.3446



49.4012, 0.2346, 0.3024

# Triad

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



49.4012, 0.2544, 0.3446



49.4012, 0.2872, 0.2624



49.4012, 0.3974, 0.3797

# Complementary

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



49.4012, 0.2544, 0.3446



23.6267, 0.4340, 0.3153

# 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.



49.4012, 0.3977, 0.3459



49.4012, 0.2544, 0.3446



49.4012, 0.3315, 0.2812

# Square

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



49.4012, 0.2544, 0.3446



49.4012, 0.2525, 0.2586



49.4012, 0.3730, 0.3108



49.4012, 0.3733, 0.4035



# Rectangle

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



49.4012, 0.2544, 0.3446



49.4012, 0.2320, 0.2803



49.4012, 0.3730, 0.3108



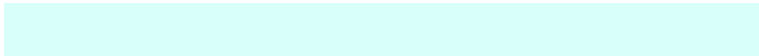
49.4012, 0.4004, 0.3691

# Sweetspot

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



49.4031, 0.2544, 0.3446



93.1855, 0.2921, 0.3332



47.3164, 0.3131, 0.4803



19.7644, 0.2893, 0.3339



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.



49.4031, 0.2544, 0.3446



80.6962, 0.2463, 0.3485



33.9981, 0.2377, 0.2714



12.7050, 0.2998, 0.3315



29.3048, 0.2342, 0.3632



1.5180, 0.2322, 0.3558



# Inverse Universe

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



23.6267, 0.4340, 0.3153



32.6544, 0.4772, 0.3135



32.8371, 0.4226, 0.3785



11.2334, 0.3273, 0.3265



8.1244, 0.6257, 0.3221

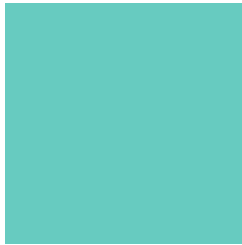


0.4261, 0.5870, 0.3007



# Previews

## White Background



This preview shows how the Yxy color 49.4012, 0.2544, 0.3446 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

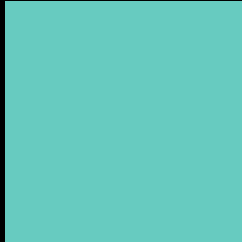
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.4012, 0.2544, 0.3446 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

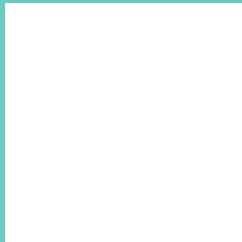
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.4012, 0.2544, 0.3446**

## Background



This preview shows how black text looks on a background with the Yxy color 49.4012, 0.2544, 0.3446.

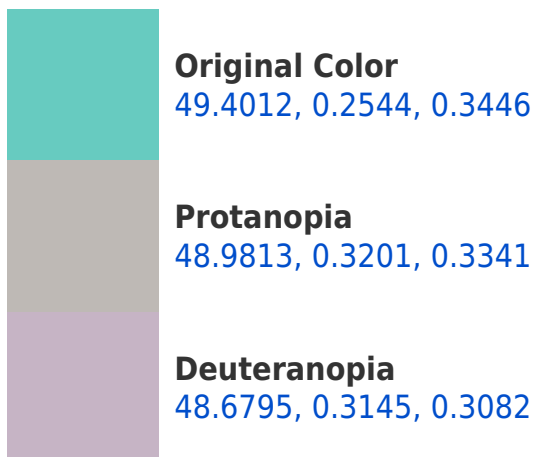


This preview shows how white text looks on a background with the Yxy color 49.4012, 0.2544, 0.3446.

# 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

49.1842, 0.2446, 0.3056

# Trichromacy



**Original Color**

49.4012, 0.2544, 0.3446

**Protanomaly**

48.4712, 0.2912, 0.3384

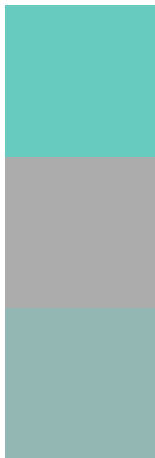
**Deuteranomaly**

47.6931, 0.2878, 0.3197

**Tritanomaly**

49.0017, 0.2481, 0.3191

# Monochromacy



**Original Color**

49.4012, 0.2544, 0.3446

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

43.3247, 0.2865, 0.3346

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.4012, 0.2544, 0.3446 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(103, 203, 192)` looks like.

```
.text, #text, p{  
    color:rgb(103, 203, 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(103, 203, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 203, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 49.4012, 0.2544, 0.3446 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(103, 203, 192) }
```

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

```
.border{ border-color:rgb(103, 203, 192) }
```

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

Here you see how a box with a 4 pixel rgb(103, 203, 192) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 203, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 203, 192);  
box-shadow:4px 4px 4px 4px rgb(103, 203,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.4012, 0.2544, 0.3446 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 203, 192) }
```

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

```
.background{ background-color: rgb(103,  
203, 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](#).

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