

# Converting Colors

$Y_{xy}(48.3769, 0.2636, 0.3420)$

Have a look what the booklet for  
Yxy(48.3769, 0.2636, 0.3420)  
contains.

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# Color

**Yxy(48.5140, 0.2642, 0.3431)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78C7BD
RGB	120, 199, 189
RGB Percent	47%, 78%, 74%
CMY	0.5292, 0.2196, 0.2589
CMYK	0.40, 0.00, 0.05, 0.22
HSL	172°, 41%, 63%
HSV	172°, 40%, 78%
XYZ	37.3576, 48.5140, 55.5274
YIQ	174.2390, -43.8740, -19.8580

# Conversions

## Conversions Part 2

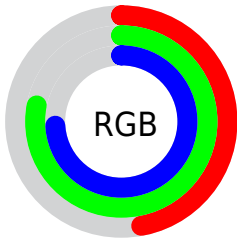
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	120, 162, 199
Decimal	7915453
CIE Lab	75.15, -26.62, -2.64
CIE LCh	75, 26.754, 185.656
Yxy	48.5140, 0.2642, 0.3431
Android (android.graphics.Color)	4286105533 (0xFF78C7BD)
YUV	174.2390, 7.2772, -47.5676
Hunter-Lab	69.6520, -26.1531, 1.4897

# Details

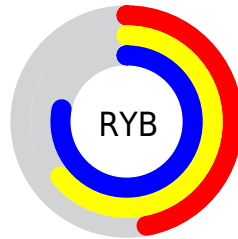
The Yxy color **48.5140, 0.2642, 0.3431** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **27.2007, 0.3985, 0.3159**, and the grayscale version is **42.4414, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.3427, 0.2729, 0.3398**, and **23.1522, 0.2508, 0.3467** is the 20% darker color. If you saturate the color by 10%, you get **47.1285, 0.2550, 0.3473**, and if you desaturate by 10%, it is **50.2010, 0.2749, 0.3392**.

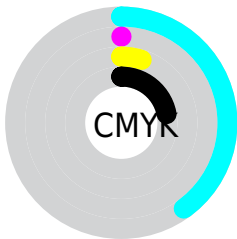
# Distribution



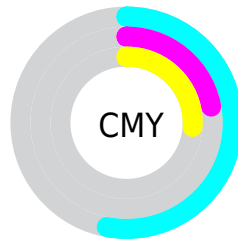
- Red (47%)
- Green (78%)
- Blue (74%)



- Red (47%)
- Yellow (64%)
- Blue (78%)



- Cyan (40%)
- Magenta (0%)
- Yellow (5%)
- Black (22%)




- Cyan (53%)
- Magenta (22%)
- Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5140, 0.2642, 0.3431 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 48.5140, 0.2642, 0.3431 by changing the saturation by 10% instead.





 48.5140, 0.2642,  
0.3431


 48.5140, 0.2642,  
0.3431

380.8259, 0.2881,  
0.3363


 34.2341, 0.2584,  
0.3447


 87.9692, 0.2728,  
0.3407

 23.0735, 0.2509,  
0.3467


 113.9133, 0.2760,  
0.3398

 14.6478, 0.2412,  
0.3493


 144.5143, 0.2788,  
0.3390

 8.5726, 0.2278,  
0.3527

180.1565, 0.2812,  
0.3383

 4.4635, 0.2085,  
0.3574

221.2244, 0.2832,  
0.3377

 1.9360, 0.1783,  
0.3640

268.1023, 0.2851,

 0.5699, 0.0000,

0.3372

0.4145

321.1747, 0.2867,  
0.3368

0.0000, 0.0000,  
0.0000

48.5140, 0.2642,  
0.3431

48.5140, 0.2642,  
0.3431

47.1285, 0.2550,  
0.3473

50.2010, 0.2749,  
0.3392

46.0201, 0.2475,  
0.3516

52.2006, 0.2868,  
0.3355

45.1704, 0.2419,  
0.3560


54.5302, 0.2997,  
0.3320


44.5560, 0.2381,  
0.3604

57.2045, 0.3132,  
0.3289

44.1492, 0.2363,  
0.3648

60.2371, 0.3271,  
0.3261


 43.8995, 0.2359,  
0.3692

 63.6410, 0.3411,  
0.3236

 43.8920, 0.2359,  
0.3693

 66.5941, 0.3516,  
0.3212

 66.7183, 0.3496,  
0.3187

 66.8445, 0.3476,  
0.3161

# Harmonies

## Analogous

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



48.5140, 0.2949, 0.3760



48.5140, 0.2642, 0.3431



48.5140, 0.2467, 0.3079

# Triad

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



48.5140, 0.2642, 0.3431



48.5140, 0.2907, 0.2722



48.5140, 0.3840, 0.3718

# Complementary

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



48.5140, 0.2642, 0.3431



27.2007, 0.3985, 0.3159

# 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.



48.5140, 0.3835, 0.3433



48.5140, 0.2642, 0.3431



48.5140, 0.3278, 0.2879

# Square

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



48.5140, 0.2642, 0.3431



48.5140, 0.2613, 0.2695



48.5140, 0.3625, 0.3133



48.5140, 0.3645, 0.3913



# Rectangle

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



48.5140, 0.2642, 0.3431



48.5140, 0.2442, 0.2890



48.5140, 0.3625, 0.3133



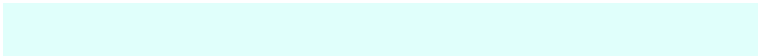
48.5140, 0.3862, 0.3629

# Sweetspot

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



48.5159, 0.2642, 0.3431



94.4037, 0.2964, 0.3329



46.9949, 0.3147, 0.4466



20.0875, 0.2946, 0.3333



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.



48.5159, 0.2642, 0.3431



82.7338, 0.2558, 0.3468



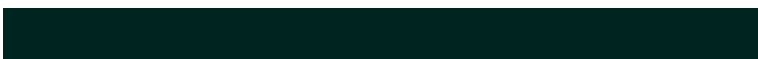
36.8887, 0.2520, 0.2865



12.0435, 0.3000, 0.3319



28.2333, 0.2358, 0.3687



1.3435, 0.2332, 0.3596



# Inverse Universe

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



27.2007, 0.3985, 0.3159



40.0680, 0.4294, 0.3133



34.9936, 0.3958, 0.3674



10.6585, 0.3270, 0.3261



7.8607, 0.6224, 0.3202

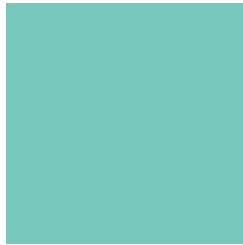


0.3796, 0.5770, 0.2952



# Previews

## White Background



This preview shows how the Yxy color 48.5140, 0.2642, 0.3431 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

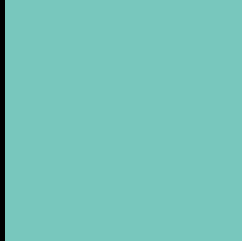
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5140, 0.2642, 0.3431 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

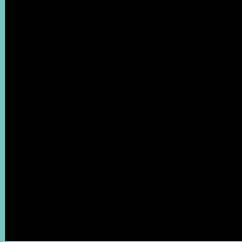
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

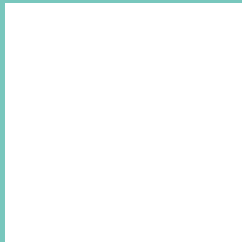
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.5140, 0.2642, 0.3431**

## Background



This preview shows how black text looks on a background with the Yxy color 48.5140, 0.2642, 0.3431.



This preview shows how white text looks on a background with the Yxy color 48.5140, 0.2642, 0.3431.

# 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**

48.5140, 0.2642, 0.3431

**Protanopia**

47.8536, 0.3194, 0.3329

**Deuteranopia**

48.0962, 0.3178, 0.3117



## Tritanopia

48.6186, 0.2544, 0.3085

# Trichromacy



**Original Color**

48.5140, 0.2642, 0.3431

**Protanomaly**

47.6006, 0.2963, 0.3370

**Deuteranomaly**

47.4696, 0.2952, 0.3211

**Tritanomaly**

48.5294, 0.2580, 0.3205

# Monochromacy



**Original Color**

48.5140, 0.2642, 0.3431

**Achromatopsia**

42.3268, 0.3127, 0.3290

**Achromatomaly**

43.9917, 0.2920, 0.3345

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5140, 0.2642, 0.3431 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(120, 199, 189)` looks like.

```
.text, #text, p{  
    color:rgb(120, 199, 189)  
}
```

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(120, 199, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 199, 189) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5140, 0.2642, 0.3431 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(120, 199, 189) }
```

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

```
.border{ border-color:rgb(120, 199, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 199, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 199, 189); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 199, 189); box-shadow:4px 4px 4px 4px rgb(120, 199, 189) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5140, 0.2642, 0.3431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 199, 189) }
```

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

```
.background{ background-color: rgb(120,  
199, 189) }
```

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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