

# Converting Colors

$Y_{xy}(45.1988, 0.2710, 0.3769)$

Have a look what the booklet for  
Yxy(45.1988, 0.2710, 0.3769)  
contains.

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# Color

**Yxy(45.2860, 0.2710, 0.3776)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BC4A4
RGB	107, 196, 164
RGB Percent	42%, 77%, 64%
CMY	0.5805, 0.2313, 0.3569
CMYK	0.45, 0.00, 0.16, 0.23
HSL	158°, 43%, 59%
HSV	158°, 45%, 77%
XYZ	32.5013, 45.2860, 42.1438
YIQ	165.7410, -42.7720, -28.8200

# Conversions

## Conversions Part 2

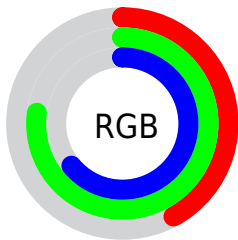
Format	Color
R <sub>YB</sub>	107, 161, 196
Decimal	7062692
CIE Lab	73.08, -34.32, 7.83
CIE LCh	73, 35.204, 167.146
Yxy	45.2860, 0.2710, 0.3776
Android (android.graphics.Color)	4285252772 (0xFF6BC4A4)
YUV	165.7410, -0.8583, -51.5159
Hunter-Lab	67.2949, -31.5561, 9.9757

# Details

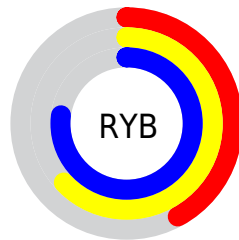
The Yxy color **45.2860, 0.2710, 0.3776** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **24.1124, 0.3884, 0.2865**, and the grayscale version is **38.0196, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1516, 0.2789, 0.3681**, and **21.1940, 0.2586, 0.3940** is the 20% darker color. If you saturate the color by 10%, you get **43.9601, 0.2647, 0.3906**, and if you desaturate by 10%, it is **46.9050, 0.2787, 0.3653**.

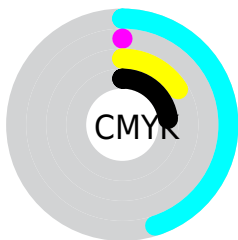
# Distribution



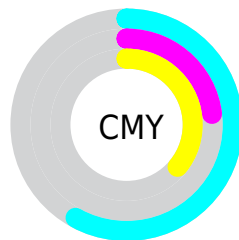
- Red (42%)
- Green (77%)
- Blue (64%)



- Red (42%)
- Yellow (63%)
- Blue (77%)



- Cyan (45%)
- Magenta (0%)
- Yellow (16%)
- Black (23%)




- Cyan (58%)
- Magenta (23%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2860, 0.2710, 0.3776 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 45.2860, 0.2710, 0.3776 by changing the saturation by 10% instead.




 45.2860, 0.2710,  
0.3776

 45.2860, 0.2710,  
0.3776


367.9306, 0.2923,  
0.3524

 31.6828, 0.2656,  
0.3842


 83.1494, 0.2788,  
0.3683

 21.1193, 0.2585,  
0.3928


 108.1784, 0.2817,  
0.3648

 13.2112, 0.2490,  
0.4045


 137.7847, 0.2842,  
0.3619

 7.5742, 0.2356,  
0.4215

 172.3528, 0.2863,  
0.3595

 3.8237, 0.2150,  
0.4481

212.2670, 0.2881,  
0.3573

 1.5754, 0.1712,  
0.5010

257.9118, 0.2896,

 0.3410, 0.0000,

0.3555

1.0000

309.6716, 0.2910,  
0.3539

0.0000, 0.0000,  
0.0000

45.2860, 0.2710,  
0.3776

45.2860, 0.2710,  
0.3776

43.9601, 0.2647,  
0.3906

46.9050, 0.2787,  
0.3653

42.9027, 0.2601,  
0.4042

48.8289, 0.2875,  
0.3538

42.0943, 0.2574,  
0.4181


51.0755, 0.2971,  
0.3433


41.5100, 0.2567,  
0.4319

53.6595, 0.3071,  
0.3338


41.1193, 0.2579,  
0.4456


56.5948, 0.3175,  
0.3252

 40.9770, 0.2588,  
0.4518

 59.8945, 0.3279,  
0.3176

 63.5709, 0.3382,  
0.3108

 65.9310, 0.3413,  
0.3043

 66.3134, 0.3358,  
0.2973

# Harmonies

## Analogous

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



45.2860, 0.3179, 0.4122



45.2860, 0.2710, 0.3776



45.2860, 0.2369, 0.3282

# Triad

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



45.2860, 0.2710, 0.3776



45.2860, 0.2573, 0.2499



45.2860, 0.4119, 0.3615

# Complementary

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



45.2860, 0.2710, 0.3776



24.1124, 0.3884, 0.2865

# 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.



45.2860, 0.3938, 0.3220



45.2860, 0.2710, 0.3776



45.2860, 0.3011, 0.2606

# Square

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



45.2860, 0.2710, 0.3776



45.2860, 0.2298, 0.2572



45.2860, 0.3518, 0.2863



45.2860, 0.4008, 0.3969



# Rectangle

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



45.2860, 0.2710, 0.3776



45.2860, 0.2251, 0.2973



45.2860, 0.3518, 0.2863



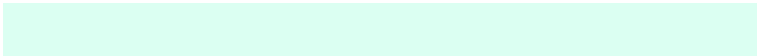
45.2860, 0.4091, 0.3483

# Sweetspot

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



45.2878, 0.2710, 0.3776



93.0471, 0.2982, 0.3421



46.0873, 0.3305, 0.4596



19.7106, 0.2961, 0.3443



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.



45.2878, 0.2710, 0.3776



79.5344, 0.2645, 0.3912



41.4486, 0.2494, 0.3114



11.3650, 0.3031, 0.3374



26.3443, 0.2583, 0.4499



1.1510, 0.2499, 0.4196



# Inverse Universe

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



24.1124, 0.3884, 0.2865



36.1881, 0.4160, 0.2780



25.9563, 0.4256, 0.3452



10.1364, 0.3234, 0.3207



7.8440, 0.5513, 0.2811

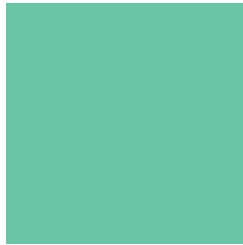


0.3522, 0.4892, 0.2469



# Previews

## White Background



This preview shows how the Yxy color 45.2860, 0.2710, 0.3776 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 45.2860, 0.2710, 0.3776 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 45.2860, 0.2710, 0.3776**

## Background



This preview shows how black text looks on a background with the Yxy color 45.2860, 0.2710, 0.3776.

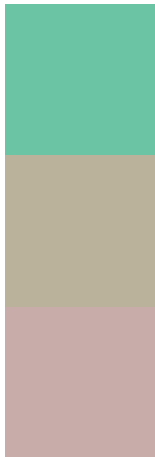


This preview shows how white text looks on a background with the Yxy color 45.2860, 0.2710, 0.3776.

# 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

45.2860, 0.2710, 0.3776

### Protanopia

44.7721, 0.3399, 0.3595

### Deuteranopia

44.5117, 0.3400, 0.3329



## Tritanopia

45.1347, 0.2513, 0.3064

# Trichromacy



## Original Color

45.2860, 0.2710, 0.3776

## Protanomaly

44.4356, 0.3109, 0.3672

## Deuteranomaly

43.9448, 0.3110, 0.3484

## Tritanomaly

45.0383, 0.2581, 0.3303

# Monochromacy



## Original Color

45.2860, 0.2710, 0.3776

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

40.1806, 0.2949, 0.3466

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2860, 0.2710, 0.3776 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(107, 196, 164)` looks like.

```
.text, #text, p{  
    color:rgb(107, 196, 164)  
}
```

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(107, 196, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 196, 164) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2860, 0.2710, 0.3776 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(107, 196, 164) }
```

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

```
.border{ border-color:rgb(107, 196, 164) }
```

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

Here you see how a box with a 4 pixel rgb(107, 196, 164) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 196, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 196, 164);  
box-shadow:4px 4px 4px 4px rgb(107, 196,  
164) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2860, 0.2710, 0.3776 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 196, 164) }
```

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

```
.background{ background-color: rgb(107,  
196, 164) }
```

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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