

# Converting Colors

$Y_{xy}(47.2085, 0.2602, 0.3332)$

Have a look what the booklet for  
Yxy(47.2085, 0.2602, 0.3332)  
contains.

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# Color

**Yxy(47.1817, 0.2601, 0.3331)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76C4C1
RGB	118, 196, 193
RGB Percent	46%, 77%, 76%
CMY	0.5371, 0.2314, 0.2431
CMYK	0.40, 0.00, 0.02, 0.23
HSL	178°, 40%, 62%
HSV	178°, 40%, 77%
XYZ	36.8417, 47.1817, 57.6209
YIQ	172.3360, -45.5250, -17.4690

# Conversions

## Conversions Part 2

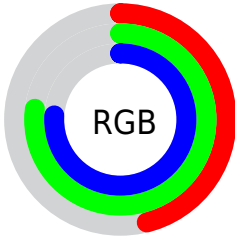
<b>Format</b>	<b>Color</b>
<b>RYB</b>	118, 158, 196
Decimal	7783617
CIELab	74.31, -24.69, -6.07
CIELCh	74, 25.424, 193.818
Yxy	47.1817, 0.2601, 0.3331
Android (android.graphics.Color)	4285973697 (0xFF76C4C1)
YUV	172.3360, 10.1874, -47.6527
Hunter-Lab	68.6889, -24.4662, -1.6542

# Details

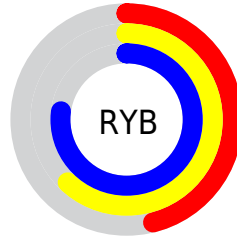
The Yxy color **47.1817, 0.2601, 0.3331** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **26.0843, 0.4078, 0.3253**, and the grayscale version is **41.4048, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.0888, 0.2697, 0.3332**, and **22.2962, 0.2456, 0.3328** is the 20% darker color. If you saturate the color by 10%, you get **45.9169, 0.2502, 0.3343**, and if you desaturate by 10%, it is **48.7355, 0.2716, 0.3320**.

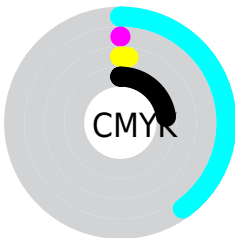
# Distribution



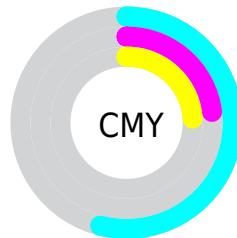
- Red (46%)
- Green (77%)
- Blue (76%)



- Red (46%)
- Yellow (62%)
- Blue (77%)



- Cyan (40%)
- Magenta (0%)
- Yellow (2%)
- Black (23%)




- Cyan (54%)
- Magenta (23%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.1817, 0.2601, 0.3331 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 47.1817, 0.2601, 0.3331 by changing the saturation by 10% instead.





 47.1817, 0.2601,  
0.3331

 47.1817, 0.2601,  
0.3331

375.5393, 0.2860,  
0.3315


 33.1793, 0.2538,  
0.3334


 85.9848, 0.2694,  
0.3326

 22.2639, 0.2457,  
0.3336


 111.5543, 0.2729,  
0.3324

 14.0509, 0.2352,  
0.3338


 141.7482, 0.2759,  
0.3322

 8.1561, 0.2208,  
0.3339

176.9511, 0.2785,  
0.3320

 4.1950, 0.2000,  
0.3333

217.5473, 0.2807,  
0.3319

 1.7832, 0.1678,  
0.3310

263.9211, 0.2827,


 0.4767, 0.0000,


0.3317


0.3356


316.4570, 0.2844,  
0.3316


 0.0000, 0.0000,  
0.0000

 47.1817, 0.2601,  
0.3331


 47.1817, 0.2601,  
0.3331


 45.9169, 0.2502,  
0.3343

 48.7355, 0.2716,  
0.3320

 44.9177, 0.2421,  
0.3355


 50.5890, 0.2844,  
0.3309


 44.1663, 0.2359,  
0.3368


 52.7591, 0.2984,  
0.3299


 43.6400, 0.2316,  
0.3380

 55.2598, 0.3131,  
0.3290


 43.3124, 0.2291,  
0.3393


 58.1043, 0.3283,  
0.3282

 43.1335, 0.2280,  
0.3405

 61.3051, 0.3437,  
0.3274

 43.1298, 0.2279,  
0.3405

 64.8278, 0.3589,  
0.3268

 64.8626, 0.3583,  
0.3260

 64.8976, 0.3577,  
0.3252

# Harmonies

## Analogous

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



47.1817, 0.2867, 0.3664



47.1817, 0.2601, 0.3331



47.1817, 0.2474, 0.3009

# Triad

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



47.1817, 0.2601, 0.3331



47.1817, 0.3010, 0.2773



47.1817, 0.3778, 0.3765

# Complementary

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



47.1817, 0.2601, 0.3331



26.0843, 0.4078, 0.3253

# 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.



47.1817, 0.3828, 0.3508



47.1817, 0.2601, 0.3331



47.1817, 0.3370, 0.2954

# Square

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



47.1817, 0.2601, 0.3331



47.1817, 0.2699, 0.2711



47.1817, 0.3676, 0.3216



47.1817, 0.3548, 0.3913



# Rectangle

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



47.1817, 0.2601, 0.3331



47.1817, 0.2479, 0.2848



47.1817, 0.3676, 0.3216



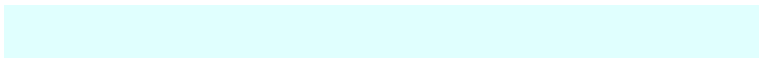
47.1817, 0.3817, 0.3687

# Sweetspot

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



47.1836, 0.2601, 0.3331



94.5759, 0.2949, 0.3301



44.9208, 0.3099, 0.4486



20.1283, 0.2930, 0.3303



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.



47.1836, 0.2601, 0.3331



83.3954, 0.2511, 0.3342



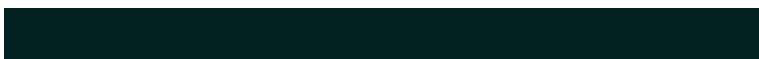
33.3015, 0.2503, 0.2763



11.4216, 0.2989, 0.3299



27.7170, 0.2279, 0.3404



1.1997, 0.2271, 0.3376



# Inverse Universe

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



26.0843, 0.4078, 0.3253



39.7403, 0.4419, 0.3246



35.8674, 0.3925, 0.3759



10.0840, 0.3283, 0.3282



7.5543, 0.6353, 0.3273

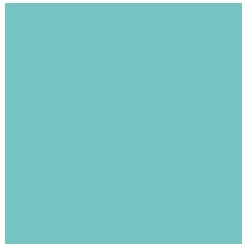


0.3286, 0.6181, 0.3178



# Previews

## White Background



This preview shows how the Yxy color 47.1817, 0.2601, 0.3331 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

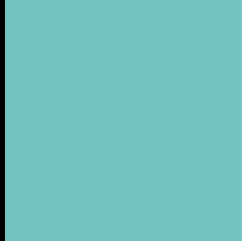
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.1817, 0.2601, 0.3331 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

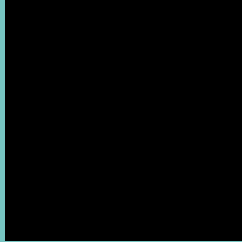
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

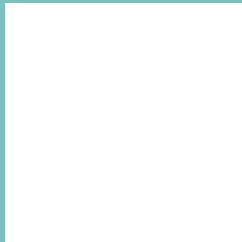
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.1817, 0.2601, 0.3331**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.1817, 0.2601, 0.3331.

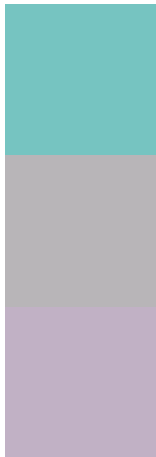


This preview shows how white text looks on a background with the Yxy color 47.1817, 0.2601, 0.3331.

# 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

47.1817, 0.2601, 0.3331

### Protanopia

46.6988, 0.3129, 0.3251

### Deuteranopia

46.8130, 0.3105, 0.3041



## **Tritanopia**

47.3246, 0.2528, 0.3082

# Trichromacy



## Original Color

47.1817, 0.2601, 0.3331

## Protanomaly

46.1793, 0.2910, 0.3276

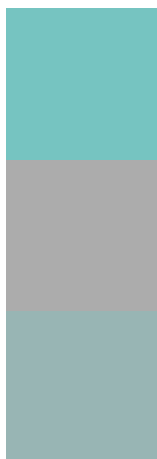
## Deuteranomaly

46.3735, 0.2892, 0.3131

## Tritanomaly

47.4070, 0.2559, 0.3177

# Monochromacy



## Original Color

47.1817, 0.2601, 0.3331

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

43.0184, 0.2896, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.1817, 0.2601, 0.3331 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(118, 196, 193)` looks like.

```
.text, #text, p{  
    color:rgb(118, 196, 193)  
}
```

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(118, 196, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 196, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 47.1817, 0.2601, 0.3331 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(118, 196, 193) }
```

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

```
.border{ border-color:rgb(118, 196, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 196, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 196, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 196, 193);  
box-shadow:4px 4px 4px 4px rgb(118, 196,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.1817, 0.2601, 0.3331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 196, 193) }
```

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

```
.background{ background-color: rgb(118,  
196, 193) }
```

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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