

# Converting Colors

$Y_{xy}(46.3600, 0.2685, 0.3360)$

Have a look what the booklet for  
Yxy(46.3600, 0.2685, 0.3360)  
contains.

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# Color

**Yxy(46.3600, 0.2685, 0.3360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80C1BC
RGB	128, 193, 188
RGB Percent	50%, 76%, 74%
CMY	0.4981, 0.2431, 0.2628
CMYK	0.34, 0.00, 0.03, 0.24
HSL	175°, 34%, 63%
HSV	175°, 34%, 76%
XYZ	37.0466, 46.3600, 54.5696
YIQ	172.9950, -37.1350, -15.3350

# Conversions

## Conversions Part 2

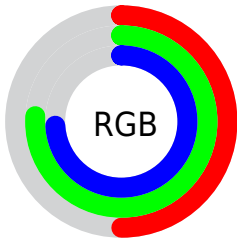
Format	Color
R <sub>Y</sub> B	128, 162, 193
Decimal	8438204
CIE Lab	73.78, -21.74, -4.07
CIE LCh	74, 22.119, 190.613
Yxy	46.3600, 0.2685, 0.3360
Android (android.graphics.Color)	4286628284 (0xFF80C1BC)
YUV	172.9950, 7.3975, -39.4606
Hunter-Lab	68.0882, -22.0329, 0.1435

# Details

The Yxy color  $46.3600, 0.2685, 0.3360$  is a light color, and the websafe version is hex  $99CCCC$ . A complement of this color would be  $28.4660, 0.3844, 0.3224$ , and the grayscale version is  $41.7613, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $84.9701, 0.2765, 0.3354$ , and  $21.7104, 0.2561, 0.3368$  is the 20% darker color. If you saturate the color by 10%, you get  $44.9412, 0.2579, 0.3384$ , and if you desaturate by 10%, it is  $48.0678, 0.2805, 0.3337$ .

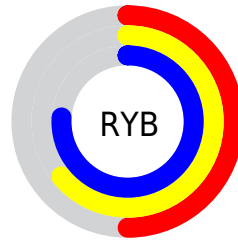
# Distribution



Red (50%)

Green (76%)

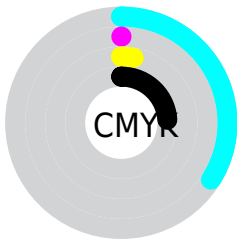
Blue (74%)



Red (50%)

Yellow (64%)

Blue (76%)

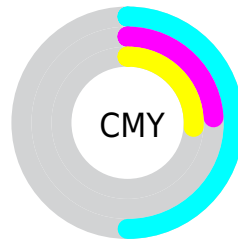


Cyan (34%)

Magenta (0%)

Yellow (3%)

Black (24%)



Cyan (50%)

Magenta (24%)

Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3600, 0.2685, 0.3360 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 46.3600, 0.2685, 0.3360 by changing the saturation by 10% instead.




 46.3600, 0.2685,  
0.3360


 46.3600, 0.2685,  
0.3360


372.2541, 0.2904,  
0.3328

 32.5300, 0.2631,  
0.3367


 84.7575, 0.2764,  
0.3349

 21.7666, 0.2562,  
0.3376


 110.0938, 0.2794,  
0.3345

 13.6855, 0.2471,  
0.3387


 140.0343, 0.2819,  
0.3341

 7.9023, 0.2345,  
0.3400

174.9635, 0.2841,  
0.3338

 4.0325, 0.2162,  
0.3416

215.2656, 0.2860,  
0.3335

 1.6917, 0.1869,  
0.3432

261.3252, 0.2876,

 0.4183, 0.0000,

0.3332

0.3610

313.5265, 0.2891,  
0.3330

0.0000, 0.0000,  
0.0000

46.3600, 0.2685,  
0.3360

46.3600, 0.2685,  
0.3360

44.9412, 0.2579,  
0.3384

48.0678, 0.2805,  
0.3337

43.7897, 0.2490,  
0.3409

50.0740, 0.2935,  
0.3316

42.8895, 0.2419,  
0.3435

52.3942, 0.3074,  
0.3297

42.2206, 0.2367,  
0.3461

55.0416, 0.3219,  
0.3279

41.7601, 0.2333,  
0.3487

58.0284, 0.3366,  
0.3263

■ 41.4802, 0.2318,  
0.3512

■ 61.3662, 0.3514,  
0.3249

■ 41.3629, 0.2314,  
0.3528

■ 63.4994, 0.3595,  
0.3235

■ 63.5685, 0.3583,  
0.3220

■ 63.6384, 0.3570,  
0.3205

# Harmonies

## Analogous

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



46.3600, 0.2931, 0.3642



46.3600, 0.2685, 0.3360



46.3600, 0.2557, 0.3073

# Triad

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



46.3600, 0.2685, 0.3360



46.3600, 0.2993, 0.2822



46.3600, 0.3710, 0.3689

# Complementary

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



46.3600, 0.2685, 0.3360



28.4660, 0.3844, 0.3224

# 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.



46.3600, 0.3733, 0.3458



46.3600, 0.2685, 0.3360



46.3600, 0.3308, 0.2973

# Square

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



46.3600, 0.2685, 0.3360



46.3600, 0.2728, 0.2781



46.3600, 0.3584, 0.3200



46.3600, 0.3525, 0.3828



# Rectangle

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



46.3600, 0.2685, 0.3360



46.3600, 0.2551, 0.2923



46.3600, 0.3584, 0.3200



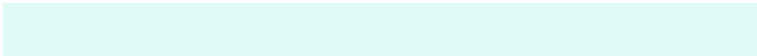
46.3600, 0.3737, 0.3619

# Sweetspot

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



46.3619, 0.2685, 0.3360



91.0779, 0.2984, 0.3309



44.7207, 0.3122, 0.4269



19.4168, 0.2964, 0.3312



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290

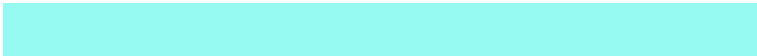


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.3619, 0.2685, 0.3360



81.2100, 0.2610, 0.3377



35.6799, 0.2603, 0.2890



11.4146, 0.2994, 0.3308



27.5142, 0.2313, 0.3525



1.1929, 0.2297, 0.3468



# Inverse Universe

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



28.4660, 0.3844, 0.3224



44.5555, 0.4065, 0.3210



36.3649, 0.3784, 0.3657



10.0902, 0.3277, 0.3273



7.5682, 0.6304, 0.3247

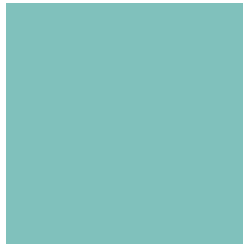


0.3314, 0.5978, 0.3067



# Previews

## White Background



This preview shows how the Yxy color 46.3600, 0.2685, 0.3360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

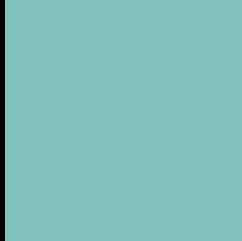
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3600, 0.2685, 0.3360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

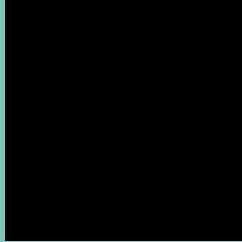
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.3600, 0.2685, 0.3360**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.3600, 0.2685, 0.3360.

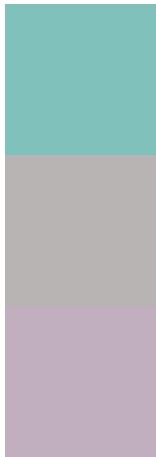


This preview shows how white text looks on a background with the Yxy color 46.3600, 0.2685, 0.3360.

# 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

46.3600, 0.2685, 0.3360

### Protanopia

46.1282, 0.3162, 0.3290

### Deuteranopia

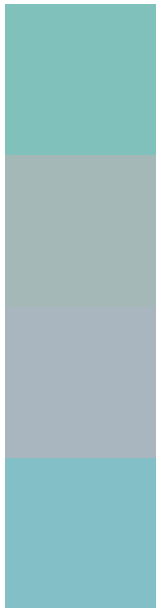
45.8032, 0.3146, 0.3076



## Tritanopia

46.1887, 0.2596, 0.3069

# Trichromacy



**Original Color**

46.3600, 0.2685, 0.3360

**Protanomaly**

46.0093, 0.2970, 0.3317

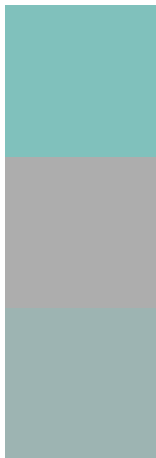
**Deuteranomaly**

45.6525, 0.2951, 0.3170

**Tritanomaly**

46.2104, 0.2633, 0.3177

# Monochromacy



**Original Color**

46.3600, 0.2685, 0.3360

**Achromatopsia**

41.7885, 0.3127, 0.3290

**Achromatomaly**

43.0250, 0.2950, 0.3317

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.3600, 0.2685, 0.3360 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(128, 193, 188)` looks like.

```
.text, #text, p{  
    color:rgb(128, 193, 188)  
}
```

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(128, 193, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 193, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3600, 0.2685, 0.3360 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(128, 193, 188) }
```

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

```
.border{ border-color:rgb(128, 193, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 193, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 193, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 193, 188);  
box-shadow:4px 4px 4px 4px rgb(128, 193,  
188) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3600, 0.2685, 0.3360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 193, 188) }
```

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

```
.background{ background-color: rgb(128,  
193, 188) }
```

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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