

# Converting Colors

$Yxy(42.7023, 0.2688, 0.3376)$

Have a look what the booklet for  
Yxy(42.7023, 0.2688, 0.3376)  
contains.

<b>Yxy(42.6241, 0.2691, 0.3377)</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(42.6241, 0.2691, 0.3377)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BBAB4
RGB	123, 186, 180
RGB Percent	48%, 73%, 71%
CMY	0.5177, 0.2706, 0.2940
CMYK	0.34, 0.00, 0.03, 0.27
HSL	174°, 31%, 61%
HSV	174°, 34%, 73%
XYZ	33.9655, 42.6241, 49.6292
YIQ	166.4790, -35.6220, -15.2220

# Conversions

## Conversions Part 2

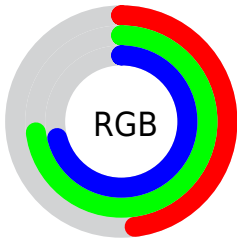
<b>Format</b>	<b>Color</b>
<b>RYB</b>	123, 156, 186
Decimal	8108724
CIELab	71.30, -21.47, -3.40
CIElCh	71, 21.741, 189.003
Yxy	42.6241, 0.2691, 0.3377
Android (android.graphics.Color)	4286298804 (0xFF7BBAB4)
YUV	166.4790, 6.6659, -38.1311
Hunter-Lab	65.2871, -21.3883, 0.6306

# Details

The Yxy color **42.6241, 0.2691, 0.3377** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **26.1859, 0.3833, 0.3207**, and the grayscale version is **38.3570, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0254, 0.2771, 0.3356**, and **19.6095, 0.2567, 0.3414** is the 20% darker color. If you saturate the color by 10%, you get **41.3106, 0.2587, 0.3407**, and if you desaturate by 10%, it is **44.2026, 0.2808, 0.3349**.

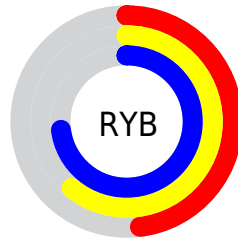
# Distribution



Red (48%)

Green (73%)

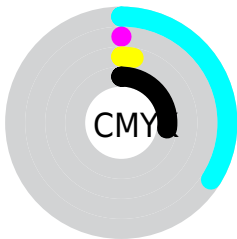
Blue (71%)



Red (48%)

Yellow (61%)

Blue (73%)

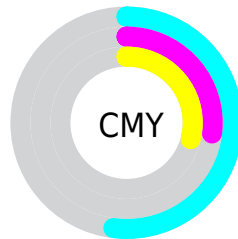


Cyan (34%)

Magenta (0%)

Yellow (3%)

Black (27%)



Cyan (52%)

Magenta (27%)


Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.6241, 0.2691, 0.3377 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 42.6241, 0.2691, 0.3377 by changing the saturation by 10% instead.




 42.6241, 0.2691,  
0.3377

 42.6241, 0.2691,  
0.3377


357.0636, 0.2910,  
0.3335


 29.5903, 0.2636,  
0.3387


 79.1433, 0.2771,  
0.3362

 19.5278, 0.2565,  
0.3399


 103.3975, 0.2801,  
0.3357

 12.0523, 0.2470,  
0.3414


 132.1606, 0.2826,  
0.3352

 6.7793, 0.2338,  
0.3435

165.8170, 0.2848,  
0.3348

 3.3245, 0.2140,  
0.3461

204.7511, 0.2867,  
0.3344

 1.3034, 0.1788,  
0.3506

249.3473, 0.2883,

 0.1438, 0.0000,

0.3341

0.2672

299.9900, 0.2898,  
0.3338

0.0000, 0.0000,  
0.0000

42.6241, 0.2691,  
0.3377

42.6241, 0.2691,  
0.3377

41.3106, 0.2587,  
0.3407

44.2026, 0.2808,  
0.3349

40.2421, 0.2500,  
0.3438

46.0545, 0.2936,  
0.3323

39.4040, 0.2430,  
0.3470

48.1942, 0.3073,  
0.3299

38.7781, 0.2379,  
0.3502


50.6338, 0.3214,  
0.3277

38.3433, 0.2347,  
0.3534


53.3843, 0.3359,  
0.3257

 38.0744, 0.2333,  
0.3566

 56.4564, 0.3503,  
0.3240

 37.9600, 0.2329,  
0.3586

 59.8603, 0.3647,  
0.3225

 60.2813, 0.3647,  
0.3207

 60.3612, 0.3632,  
0.3188

# Harmonies

## Analogous

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



42.6241, 0.2945, 0.3659



42.6241, 0.2691, 0.3377



42.6241, 0.2555, 0.3085

# Triad

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



42.6241, 0.2691, 0.3377



42.6241, 0.2975, 0.2812



42.6241, 0.3722, 0.3682

# Complementary

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



42.6241, 0.2691, 0.3377



26.1859, 0.3833, 0.3207

# 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.



42.6241, 0.3736, 0.3445



42.6241, 0.2691, 0.3377



42.6241, 0.3293, 0.2959

# Square

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



42.6241, 0.2691, 0.3377



42.6241, 0.2712, 0.2777



42.6241, 0.3576, 0.3185



42.6241, 0.3542, 0.3830



# Rectangle

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



42.6241, 0.2691, 0.3377



42.6241, 0.2543, 0.2930



42.6241, 0.3576, 0.3185



42.6241, 0.3746, 0.3610

# Sweetspot

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



42.6258, 0.2691, 0.3377



84.8508, 0.2986, 0.3314



41.2390, 0.3130, 0.4270



18.5682, 0.2967, 0.3317



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



42.6258, 0.2691, 0.3377



75.3595, 0.2609, 0.3400



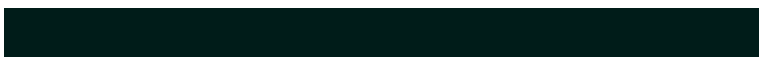
33.1739, 0.2604, 0.2905



10.1955, 0.2998, 0.3312



25.5430, 0.2328, 0.3581



0.9048, 0.2305, 0.3499



# Inverse Universe

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



26.1859, 0.3833, 0.3207



40.8233, 0.4078, 0.3189



33.1097, 0.3791, 0.3644



9.0257, 0.3273, 0.3269



7.0569, 0.6274, 0.3230

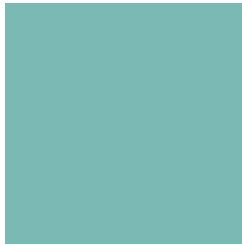


0.2534, 0.5839, 0.2990



# Previews

## White Background



This preview shows how the Yxy color 42.6241, 0.2691, 0.3377 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

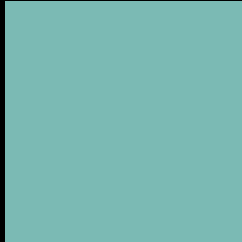
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.6241, 0.2691, 0.3377 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

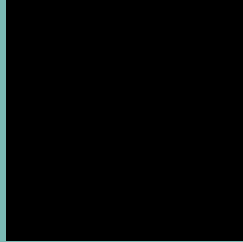
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.6241, 0.2691, 0.3377**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.6241, 0.2691, 0.3377.

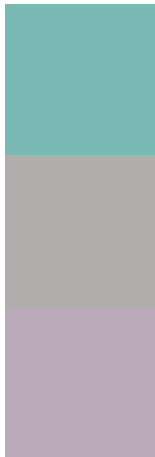


This preview shows how white text looks on a background with the Yxy color 42.6241, 0.2691, 0.3377.

# 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**

42.6241, 0.2691, 0.3377

**Protanopia**

42.2128, 0.3171, 0.3304

**Deuteranopia**

42.2757, 0.3154, 0.3095



## Tritanopia

42.4562, 0.2599, 0.3075

# Trichromacy



## Original Color

42.6241, 0.2691, 0.3377

## Protanomaly

42.1040, 0.2972, 0.3332

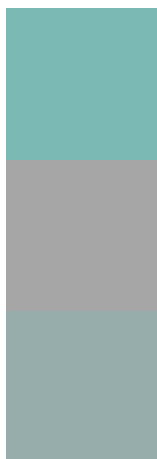
## Deuteranomaly

41.8654, 0.2960, 0.3179

## Tritanomaly

42.4782, 0.2638, 0.3188

# Monochromacy



## Original Color

42.6241, 0.2691, 0.3377

## Achromatopsia

38.1326, 0.3127, 0.3290

## Achromatomaly

39.3114, 0.2944, 0.3319

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.6241, 0.2691, 0.3377 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(123, 186, 180)` looks like.

```
.text, #text, p{  
    color:rgb(123, 186, 180)  
}
```

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(123, 186, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 186, 180) }
```

## Border

The CSS property to change the border of an element to Yxy 42.6241, 0.2691, 0.3377 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(123, 186, 180) }
```

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

```
.border{ border-color:rgb(123, 186, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 186, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(123, 186, 180); -webkit-box-shadow:4px 4px 4px 4px rgb(123, 186, 180); box-shadow:4px 4px 4px 4px rgb(123, 186, 180) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.6241, 0.2691, 0.3377 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 186, 180) }
```

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

```
.background{ background-color: rgb(123,  
186, 180) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor