

# Converting Colors

$Y_{xy}(48.8185, 0.2723, 0.3343)$

Have a look what the booklet for  
Yxy(48.8185, 0.2723, 0.3343)  
contains.

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# Color

**Yxy(48.6040, 0.2723, 0.3344)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89C4C0
RGB	137, 196, 192
RGB Percent	54%, 77%, 75%
CMY	0.4625, 0.2314, 0.2471
CMYK	0.30, 0.00, 0.02, 0.23
HSL	176°, 33%, 65%
HSV	176°, 30%, 77%
XYZ	39.5780, 48.6040, 57.1649
YIQ	177.9030, -33.8800, -13.7520

# Conversions

## Conversions Part 2

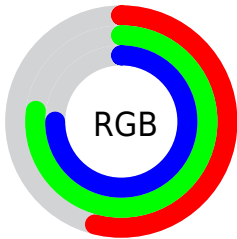
Format	Color
<a href="#">RYB</a>	<a href="#">137, 168, 196</a>
Decimal	<a href="#">9028800</a>
CIELab	<a href="#">75.20, -19.75, -4.10</a>
CIElCh	<a href="#">75, 20.170, 191.715</a>
Yxy	<a href="#">48.6040, 0.2723, 0.3344</a>
Android (android.graphics.Color)	<a href="#">4287218880 (0xFF89C4C0)</a>
YUV	<a href="#">177.9030, 6.9498, -35.8719</a>
Hunter-Lab	<a href="#">69.7166, -20.6699, 0.1861</a>

# Details

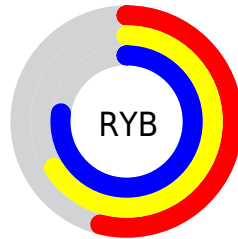
The Yxy color **48.6040, 0.2723, 0.3344** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **31.5679, 0.3747, 0.3238**, and the grayscale version is **44.4501, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.2343, 0.2796, 0.3342**, and **23.0949, 0.2606, 0.3346** is the 20% darker color. If you saturate the color by 10%, you get **47.0378, 0.2611, 0.3365**, and if you desaturate by 10%, it is **50.4755, 0.2848, 0.3325**.

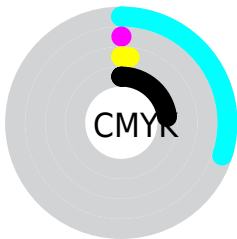
# Distribution



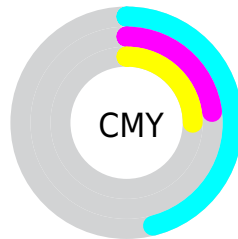
- Red (54%)
- Green (77%)
- Blue (75%)



- Red (54%)
- Yellow (66%)
- Blue (77%)



- Cyan (30%)
- Magenta (0%)
- Yellow (2%)
- Black (23%)




- Cyan (46%)
- Magenta (23%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.6040, 0.2723, 0.3344 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 48.6040, 0.2723, 0.3344 by changing the saturation by 10% instead.




 48.6040, 0.2723,  
0.3344


 48.6040, 0.2723,  
0.3344

381.1813, 0.2922,  
0.3320


 34.3055, 0.2674,  
0.3349


 88.1030, 0.2795,  
0.3336

 23.1284, 0.2613,  
0.3356

 114.0723, 0.2822,  
0.3332

 14.6883, 0.2531,  
0.3363


 144.7006, 0.2845,  
0.3330

 8.6009, 0.2420,  
0.3373

180.3723, 0.2864,  
0.3327

 4.4818, 0.2258,  
0.3383

221.4718, 0.2882,  
0.3325

 1.9466, 0.2003,  
0.3393

268.3836, 0.2897,

 0.5761, 0.0421,

0.3323


0.3704


321.4919, 0.2910,  
0.3321


 0.0000, 0.0000,  
0.0000

 48.6040, 0.2723,  
0.3344


 48.6040, 0.2723,  
0.3344


 47.0378, 0.2611,  
0.3365


 50.4755, 0.2848,  
0.3325


 45.7548, 0.2515,  
0.3386


 52.6616, 0.2983,  
0.3307


 44.7391, 0.2436,  
0.3408


 55.1782, 0.3126,  
0.3290


 43.9709, 0.2377,  
0.3431


 58.0386, 0.3274,  
0.3275

 43.4275, 0.2336,  
0.3454

 61.2552, 0.3423,  
0.3262


 43.0821, 0.2314,  
0.3476

 64.8400, 0.3573,  
0.3250

 42.8839, 0.2305,  
0.3499

 64.9675, 0.3565,  
0.3237

 65.0304, 0.3554,  
0.3223

 65.0938, 0.3543,  
0.3209

# Harmonies

## Analogous

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



48.6040, 0.2942, 0.3596



48.6040, 0.2723, 0.3344



48.6040, 0.2611, 0.3089

# Triad

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



48.6040, 0.2723, 0.3344



48.6040, 0.3017, 0.2871



48.6040, 0.3646, 0.3657

# Complementary

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



48.6040, 0.2723, 0.3344



31.5679, 0.3747, 0.3238

# 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.



48.6040, 0.3672, 0.3452



48.6040, 0.2723, 0.3344



48.6040, 0.3300, 0.3010

# Square

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



48.6040, 0.2723, 0.3344



48.6040, 0.2775, 0.2830



48.6040, 0.3544, 0.3219



48.6040, 0.3477, 0.3775



# Rectangle

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



48.6040, 0.2723, 0.3344



48.6040, 0.2609, 0.2955



48.6040, 0.3544, 0.3219



48.6040, 0.3673, 0.3595

# Sweetspot

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



48.6060, 0.2723, 0.3344



95.8045, 0.2996, 0.3305



47.0328, 0.3124, 0.4150



20.3711, 0.2976, 0.3308



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

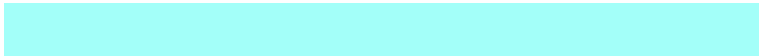


# Same Dimension

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



48.6060, 0.2723, 0.3344



86.1537, 0.2649, 0.3357



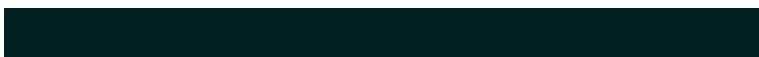
38.6001, 0.2659, 0.2938



11.4163, 0.2993, 0.3305



27.5622, 0.2304, 0.3495



1.1945, 0.2290, 0.3445



# Inverse Universe

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



31.5679, 0.3747, 0.3238



50.4057, 0.3942, 0.3227



39.2481, 0.3698, 0.3616



10.0887, 0.3279, 0.3275



7.5646, 0.6317, 0.3253

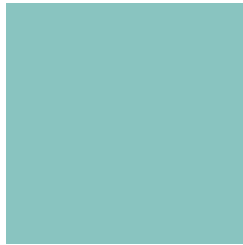


0.3307, 0.6025, 0.3093



# Previews

## White Background



This preview shows how the Yxy color 48.6040, 0.2723, 0.3344 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

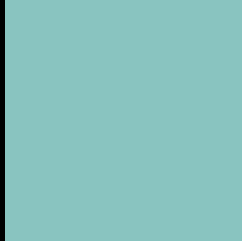
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.6040, 0.2723, 0.3344 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

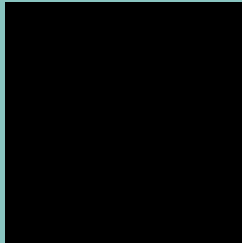
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

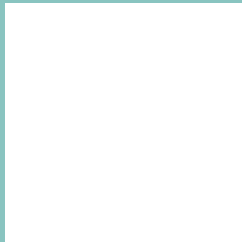
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.6040, 0.2723, 0.3344**

## Background



This preview shows how black text looks on a background with the Yxy color 48.6040, 0.2723, 0.3344.



This preview shows how white text looks on a background with the Yxy color 48.6040, 0.2723, 0.3344.

# 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

48.6040, 0.2723, 0.3344

### Protanopia

48.4751, 0.3153, 0.3277

### Deuteranopia

48.0960, 0.3146, 0.3081



## Tritanopia

48.4061, 0.2640, 0.3075

# Trichromacy



**Original Color**

48.6040, 0.2723, 0.3344

**Protanomaly**

48.0323, 0.2974, 0.3290

**Deuteranomaly**

47.7520, 0.2970, 0.3160

**Tritanomaly**

48.4708, 0.2671, 0.3167

# Monochromacy



**Original Color**

48.6040, 0.2723, 0.3344

**Achromatopsia**

44.5201, 0.3127, 0.3290

**Achromatomaly**

45.9034, 0.2962, 0.3317

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.6040, 0.2723, 0.3344 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(137, 196, 192)` looks like.

```
.text, #text, p{  
    color:rgb(137, 196, 192)  
}
```

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(137, 196, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 196, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 48.6040, 0.2723, 0.3344 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(137, 196, 192) }
```

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

```
.border{ border-color:rgb(137, 196, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 196, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 196, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 196, 192);  
box-shadow:4px 4px 4px 4px rgb(137, 196,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.6040, 0.2723, 0.3344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 196, 192) }
```

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

```
.background{ background-color: rgb(137,  
196, 192) }
```

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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