

# Converting Colors

$Y_{xy}(45.4761, 0.2640, 0.3372)$

Have a look what the booklet for  
Yxy(45.4761, 0.2640, 0.3372)  
contains.

<b>Yxy(45.7209, 0.2642, 0.3375)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(45.7209, 0.2642, 0.3375)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78C1BB
RGB	120, 193, 187
RGB Percent	47%, 76%, 73%
CMY	0.5292, 0.2432, 0.2666
CMYK	0.38, 0.00, 0.03, 0.24
HSL	175°, 37%, 61%
HSV	175°, 38%, 76%
XYZ	35.7910, 45.7209, 53.9574
YIQ	170.4890, -41.5820, -17.3420

# Conversions

## Conversions Part 2

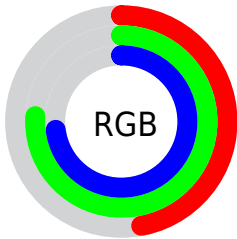
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 158, 193
Decimal	7913915
CIELab	73.36, -24.13, -4.19
CIElCh	73, 24.489, 189.857
Yxy	45.7209, 0.2642, 0.3375
Android (android.graphics.Color)	4286103995 (0xFF78C1BB)
YUV	170.4890, 8.1399, -44.2789
Hunter-Lab	67.6172, -23.8469, 0.0196

# Details

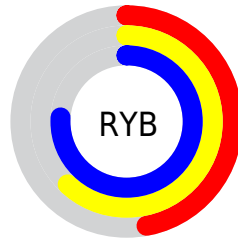
The Yxy color **45.7209, 0.2642, 0.3375** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **26.2891, 0.3967, 0.3211**, and the grayscale version is **40.4358, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.9562, 0.2728, 0.3366**, and **21.3447, 0.2506, 0.3390** is the 20% darker color. If you saturate the color by 10%, you get **44.4109, 0.2543, 0.3401**, and if you desaturate by 10%, it is **47.3134, 0.2756, 0.3350**.

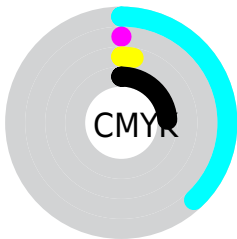
# Distribution



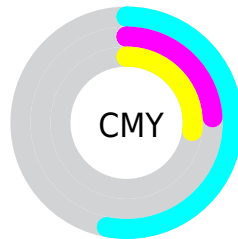
- Red (47%)
- Green (76%)
- Blue (73%)



- Red (47%)
- Yellow (62%)
- Blue (76%)



- Cyan (38%)
- Magenta (0%)
- Yellow (3%)
- Black (24%)




- Cyan (53%)
- Magenta (24%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7209, 0.2642, 0.3375 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 45.7209, 0.2642, 0.3375 by changing the saturation by 10% instead.





 45.7209, 0.2642,  
0.3375


 45.7209, 0.2642,  
0.3375


369.6854, 0.2883,  
0.3336

 32.0256, 0.2583,  
0.3384


 83.8011, 0.2729,  
0.3361

 21.3811, 0.2507,  
0.3395


 108.9549, 0.2762,  
0.3356

 13.4028, 0.2407,  
0.3408


 138.6970, 0.2790,  
0.3352

 7.7065, 0.2268,  
0.3424

173.4117, 0.2814,  
0.3348

 3.9077, 0.2066,  
0.3444

213.4835, 0.2834,  
0.3344

 1.6221, 0.1746,  
0.3465

259.2968, 0.2852,

 0.3724, 0.0000,

0.3341

0.3477

311.2360, 0.2868,  
0.3338

0.0000, 0.0000,  
0.0000

45.7209, 0.2642,  
0.3375

45.7209, 0.2642,  
0.3375

44.4109, 0.2543,  
0.3401

47.3134, 0.2756,  
0.3350

43.3612, 0.2462,  
0.3428

49.1983, 0.2882,  
0.3327

42.5550, 0.2398,  
0.3456


51.3918, 0.3017,  
0.3305


41.9711, 0.2354,  
0.3483


53.9072, 0.3159,  
0.3286

41.5850, 0.2329,  
0.3511


56.7571, 0.3305,  
0.3268

 41.3599, 0.2319,  
0.3539

 59.9533, 0.3452,  
0.3252

 41.3185, 0.2318,  
0.3545

 63.4793, 0.3597,  
0.3239

 63.5528, 0.3584,  
0.3222

 63.6271, 0.3571,  
0.3206

# Harmonies

## Analogous

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



45.7209, 0.2916, 0.3690



45.7209, 0.2642, 0.3375



45.7209, 0.2498, 0.3054

# Triad

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



45.7209, 0.2642, 0.3375



45.7209, 0.2968, 0.2771



45.7209, 0.3778, 0.3725

# Complementary

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



45.7209, 0.2642, 0.3375



26.2891, 0.3967, 0.3211

# 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.



45.7209, 0.3800, 0.3466



45.7209, 0.2642, 0.3375



45.7209, 0.3318, 0.2934

# Square

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



45.7209, 0.2642, 0.3375



45.7209, 0.2678, 0.2727



45.7209, 0.3629, 0.3182



45.7209, 0.3575, 0.3887



# Rectangle

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



45.7209, 0.2642, 0.3375



45.7209, 0.2489, 0.2886



45.7209, 0.3629, 0.3182



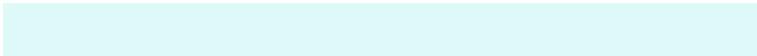
45.7209, 0.3807, 0.3645

# Sweetspot

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



45.7227, 0.2642, 0.3375



90.6589, 0.2970, 0.3313



43.9405, 0.3119, 0.4409



19.3328, 0.2952, 0.3315



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.



45.7227, 0.2642, 0.3375



79.9965, 0.2563, 0.3396



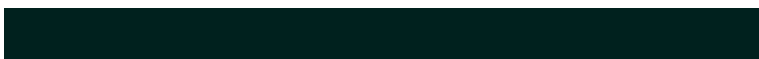
33.8997, 0.2540, 0.2832



11.4137, 0.2995, 0.3309



27.4889, 0.2317, 0.3541



1.1920, 0.2300, 0.3480



# Inverse Universe

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



26.2891, 0.3967, 0.3211



40.4199, 0.4240, 0.3195



34.6487, 0.3886, 0.3703



10.0910, 0.3276, 0.3271



7.5703, 0.6297, 0.3243

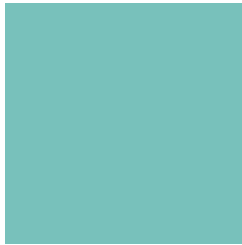


0.3318, 0.5953, 0.3053



# Previews

## White Background



This preview shows how the Yxy color 45.7209, 0.2642, 0.3375 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

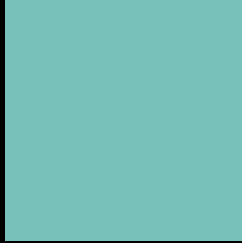
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7209, 0.2642, 0.3375 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

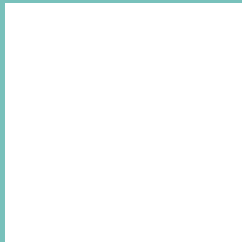
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7209, 0.2642, 0.3375**

## Background



This preview shows how black text looks on a background with the Yxy color 45.7209, 0.2642, 0.3375.

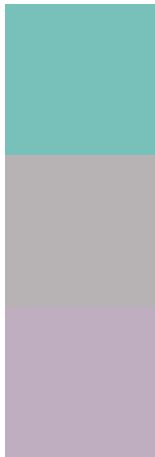


This preview shows how white text looks on a background with the Yxy color 45.7209, 0.2642, 0.3375.

# 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

45.7209, 0.2642, 0.3375

### Protanopia

45.1627, 0.3163, 0.3277

### Deuteranopia

45.1101, 0.3137, 0.3075



## Tritanopia

45.5947, 0.2559, 0.3080

# Trichromacy



## Original Color

45.7209, 0.2642, 0.3375

## Protanomaly

44.7180, 0.2945, 0.3303

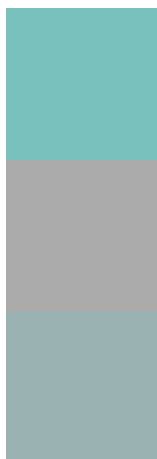
## Deuteranomaly

44.7648, 0.2926, 0.3169

## Tritanomaly

45.5498, 0.2590, 0.3190

# Monochromacy



## Original Color

45.7209, 0.2642, 0.3375

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

42.0899, 0.2917, 0.3318

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7209, 0.2642, 0.3375 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(120, 193, 187)` looks like.

```
.text, #text, p{  
    color:rgb(120, 193, 187)  
}
```

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(120, 193, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 193, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7209, 0.2642, 0.3375 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(120, 193, 187) }
```

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

```
.border{ border-color:rgb(120, 193, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 193, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 193, 187); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 193, 187); box-shadow:4px 4px 4px 4px rgb(120, 193, 187) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7209, 0.2642, 0.3375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 193, 187) }
```

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

```
.background{ background-color: rgb(120,  
193, 187) }
```

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