

# Converting Colors

$Y_{xy}(45.6460, 0.2335, 0.3326)$

Have a look what the booklet for  
Yxy(45.6460, 0.2335, 0.3326)  
contains.

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# Color

**Yxy(45.6731, 0.2336, 0.3333)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38C7C4
RGB	56, 199, 196
RGB Percent	22%, 78%, 77%
CMY	0.7810, 0.2196, 0.2314
CMYK	0.72, 0.00, 0.02, 0.22
HSL	179°, 56%, 50%
HSV	179°, 72%, 78%
XYZ	32.0109, 45.6731, 59.3490
YIQ	155.9010, -84.2650, -31.2490

# Conversions

## Conversions Part 2

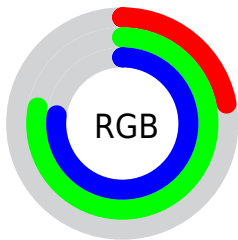
Format	Color
R <sub>YB</sub>	56, 128, 199
Decimal	3721156
CIE Lab	73.33, -37.18, -9.35
CIE LCh	73, 38.339, 194.117
Yxy	45.6731, 0.2336, 0.3333
Android (android.graphics.Color)	4281911236 (0xFF38C7C4)
YUV	155.9010, 19.7688, -87.6132
Hunter-Lab	67.5819, -33.7198, -4.7599

# Details

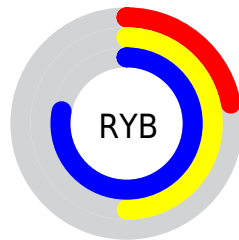
The Yxy color **45.6731, 0.2336, 0.3333** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **15.2723, 0.5510, 0.3268**, and the grayscale version is **33.1198, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8969, 0.2468, 0.3311**, and **21.8995, 0.2258, 0.3329** is the 20% darker color. If you saturate the color by 10%, you get **45.1934, 0.2296, 0.3340**, and if you desaturate by 10%, it is **46.3839, 0.2395, 0.3326**.

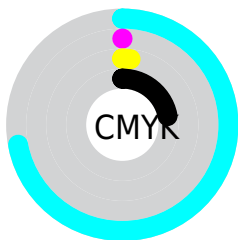
# Distribution



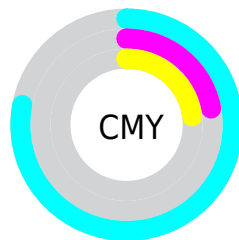
- Red (22%)
- Green (78%)
- Blue (77%)



- Red (22%)
- Yellow (50%)
- Blue (78%)



- Cyan (72%)
- Magenta (0%)
- Yellow (2%)
- Black (22%)




- Cyan (78%)
- Magenta (22%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6731, 0.2336, 0.3333 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 45.6731, 0.2336, 0.3333 by changing the saturation by 10% instead.




 45.6731, 0.2336,  
0.3333


 45.6731, 0.2336,  
0.3333


369.4928, 0.2723,  
0.3322


 31.9879, 0.2243,  
0.3333


 83.7296, 0.2474,  
0.3331

 21.3523, 0.2125,  
0.3330


 108.8696, 0.2527,  
0.3330


 13.3818, 0.1972,  
0.3324


 138.5968, 0.2572,  
0.3329

 7.6919, 0.1767,  
0.3308

 173.2955, 0.2611,  
0.3327

 3.8985, 0.1480,  
0.3272

 213.3500, 0.2644,  
0.3326

 1.6169, 0.0983,  
0.3208

259.1448, 0.2674,

 0.3690, 0.0000,

0.3324

0.2585

311.0643, 0.2700,  
0.3323

0.0000, 0.0000,  
0.0000

45.6731, 0.2336,  
0.3333

45.6731, 0.2336,  
0.3333

45.1934, 0.2296,  
0.3340

46.3839, 0.2395,  
0.3326

44.9108, 0.2273,  
0.3347

47.3447, 0.2473,  
0.3320

44.7849, 0.2264,  
0.3352

48.5785, 0.2570,  
0.3313

50.1041, 0.2683,  
0.3307

51.9386, 0.2810,  
0.3301

■ 54.0980, 0.2950,  
0.3296

■ 56.5970, 0.3098,  
0.3291

■ 59.4494, 0.3252,  
0.3286

■ 62.6685, 0.3409,  
0.3283

# Harmonies

## Analogous

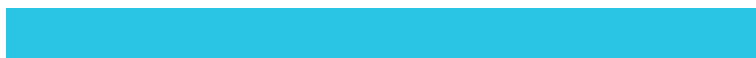
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.6731, 0.2720, 0.3870



45.6731, 0.2336, 0.3333



45.6731, 0.2162, 0.2841

# Triad

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



45.6731, 0.2336, 0.3333



45.6731, 0.2946, 0.2535



45.6731, 0.4106, 0.3985

# Complementary

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



45.6731, 0.2336, 0.3333



15.2723, 0.5510, 0.3268

# 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.



45.6731, 0.4199, 0.3591



45.6731, 0.2336, 0.3333



45.6731, 0.3496, 0.2795

# Square

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



45.6731, 0.2336, 0.3333



45.6731, 0.2489, 0.2436



45.6731, 0.3972, 0.3169



45.6731, 0.3744, 0.4240



# Rectangle

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



45.6731, 0.2336, 0.3333



45.6731, 0.2173, 0.2612



45.6731, 0.3972, 0.3169



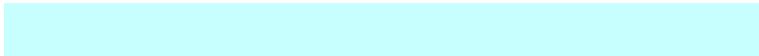
45.6731, 0.4171, 0.3863

# Sweetspot

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



45.6748, 0.2336, 0.3333



90.7925, 0.2805, 0.3301



42.1173, 0.3040, 0.5557



19.2336, 0.2769, 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.



45.6748, 0.2336, 0.3333



78.8154, 0.2282, 0.3343



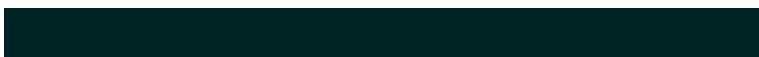
21.5186, 0.2045, 0.2177



12.0636, 0.2987, 0.3295



28.7951, 0.2264, 0.3351



1.3647, 0.2260, 0.3337



# Inverse Universe

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



15.2723, 0.5510, 0.3268



22.6591, 0.6115, 0.3280



26.5098, 0.4816, 0.4078



10.6405, 0.3286, 0.3286



7.8152, 0.6375, 0.3285

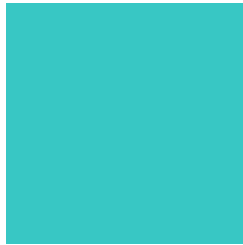


0.3713, 0.6283, 0.3235



# Previews

## White Background



This preview shows how the Yxy color 45.6731, 0.2336, 0.3333 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 45.6731, 0.2336, 0.3333 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

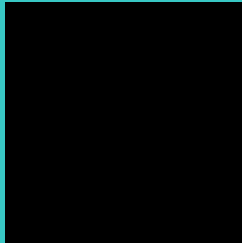
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

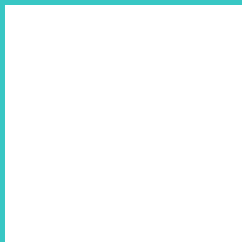
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.6731, 0.2336, 0.3333**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6731, 0.2336, 0.3333.

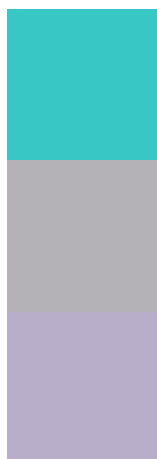


This preview shows how white text looks on a background with the Yxy color 45.6731, 0.2336, 0.3333.

# 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

45.6731, 0.2336, 0.3333

### Protanopia

44.9630, 0.3104, 0.3224

### Deuteranopia

44.8034, 0.3006, 0.2948



## **Tritanopia**

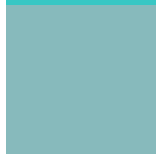
45.8442, 0.2284, 0.3071

# Trichromacy



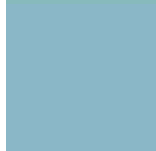
## Original Color

45.6731, 0.2336, 0.3333



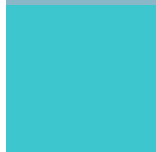
## Protanomaly

43.8995, 0.2720, 0.3260



## Deuteranomaly

43.3938, 0.2665, 0.3066



## Tritanomaly

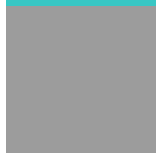
45.8685, 0.2303, 0.3170

# Monochromacy



## Original Color

45.6731, 0.2336, 0.3333



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

36.4384, 0.2707, 0.3304

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6731, 0.2336, 0.3333 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(56, 199, 196)` looks like.

```
.text, #text, p{  
    color:rgb(56, 199, 196)  
}
```

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(56, 199, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 199, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6731, 0.2336, 0.3333 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(56, 199, 196) }
```

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

```
.border{ border-color:rgb(56, 199, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 199, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 199, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 199, 196);  
box-shadow:4px 4px 4px 4px rgb(56, 199,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6731, 0.2336, 0.3333 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 199, 196) }
```

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

```
.background{ background-color: rgb(56, 199,  
196) }
```

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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