

Converting Colors

$Y_{xy}(33.7898, 0.2233, 0.2752)$

Have a look what the booklet for
Yxy(33.7898, 0.2233, 0.2752)
contains.

Yxy(33.6192, 0.2230, 0.2745)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(33.6192, 0.2230, 0.2745)

Conversions

Conversions Part 1

Format	Color
Hex	46A8CB
RGB	70, 168, 203
RGB Percent	27%, 66%, 80%
CMY	0.7251, 0.3412, 0.2040
CMYK	0.65, 0.17, 0.00, 0.20
HSL	196°, 56%, 54%
HSV	196°, 65%, 80%
XYZ	27.3118, 33.6192, 61.5433
YIQ	142.6880, -69.6430, -9.8910

Conversions

Conversions Part 2

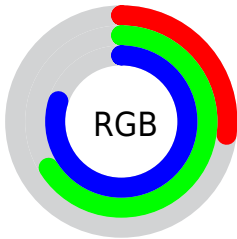
Format	Color
RYB	70, 126, 203
Decimal	4630731
CIELab	64.66, -17.72, -26.29
CIElCh	65, 31.711, 236.017
Yxy	33.6192, 0.2230, 0.2745
Android (android.graphics.Color)	4282820811 (0xFF46A8CB)
YUV	142.6880, 29.7338, -63.7474
Hunter-Lab	57.9821, -17.3883, -22.3442




Details

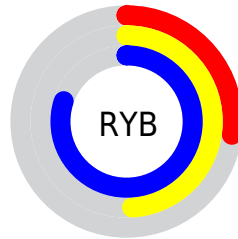
The Yxy color **33.6192, 0.2230, 0.2745** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle muted azure. A complement of this color would be **23.2608, 0.4909, 0.3708**, and the grayscale version is **27.2479, 0.3127, 0.3290**.




A 20% lighter version of the original color is **64.9009, 0.2418, 0.2908**, and **14.6607, 0.2048, 0.2573** is the 20% darker color. If you saturate the color by 10%, you get **31.0544, 0.2141, 0.2647**, and if you desaturate by 10%, it is **36.5228, 0.2337, 0.2842**.

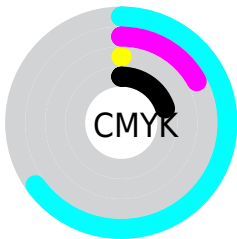
Distribution







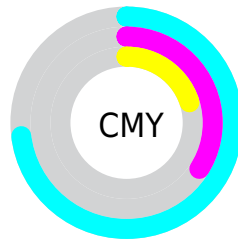
-  Red (27%)
-  Green (66%)
-  Blue (80%)






-  Red (27%)
-  Yellow (49%)
-  Blue (80%)



-  Cyan (65%)
-  Magenta (17%)
-  Yellow (0%)
-  Black (20%)





-  Cyan (73%)
-  Magenta (34%)
-  Yellow (20%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.6192, 0.2230, 0.2745 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 33.6192, 0.2230, 0.2745 by changing the saturation by 10% instead.

 33.6192, 0.2230,
0.2745


 33.6192, 0.2230,
0.2745


318.4307, 0.2684,
0.3039

 22.6012, 0.2117,
0.2666


 65.3411, 0.2395,
0.2856

 14.2993, 0.1972,
0.2562


 86.8137, 0.2457,
0.2897


 8.3291, 0.1783,
0.2418


 112.5400, 0.2510,
0.2930

 4.3063, 0.1527,
0.2212

 142.9045, 0.2555,
0.2959

 1.8463, 0.1170,
0.1896

 178.2913, 0.2594,
0.2983

 0.5158, 0.0151,
0.1356

219.0851, 0.2628,

 0.0000, 0.0000,

0.3004

0.0000

265.6701, 0.2658,
0.3022

■ 33.6192, 0.2230,
0.2745

■ 33.6192, 0.2230,
0.2745

■ 31.0544, 0.2141,
0.2647

■ 36.5228, 0.2337,
0.2842

■ 28.7967, 0.2071,
0.2548

■ 39.7856, 0.2460,
0.2935

■ 26.8136, 0.2021,
0.2450

■ 43.4303, 0.2596,
0.3024

■ 25.9761, 0.2002,
0.2406

■ 47.4764, 0.2740,
0.3107

■ 51.9420, 0.2891,
0.3184

■ 56.8438, 0.3043,
0.3254

■ 62.1976, 0.3196,
0.3318

■ 68.0182, 0.3347,
0.3375

■ 74.3199, 0.3493,
0.3426

Harmonies

Analogous

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



33.6192, 0.2309, 0.3140



33.6192, 0.2230, 0.2745



33.6192, 0.2363, 0.2534

Triad

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



33.6192, 0.2230, 0.2745



33.6192, 0.3656, 0.2962



33.6192, 0.3521, 0.4187

Complementary

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



33.6192, 0.2230, 0.2745



23.2608, 0.4909, 0.3708

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.



33.6192, 0.3921, 0.4048



33.6192, 0.2230, 0.2745



33.6192, 0.4016, 0.3336

Square

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



33.6192, 0.2230, 0.2745



33.6192, 0.3160, 0.2671



33.6192, 0.4111, 0.3726



33.6192, 0.3034, 0.4042

Rectangle

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



33.6192, 0.2230, 0.2745



33.6192, 0.2562, 0.2502



33.6192, 0.4111, 0.3726



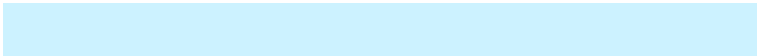
33.6192, 0.3671, 0.4169

Sweetspot

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



33.6204, 0.2230, 0.2745



83.3058, 0.2818, 0.3148



44.9991, 0.2878, 0.4915



17.3803, 0.2775, 0.3126



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.



33.6204, 0.2230, 0.2745



50.2096, 0.2106, 0.2601



15.3814, 0.1976, 0.1670



12.2076, 0.2983, 0.3228



16.6880, 0.2006, 0.2420



0.9805, 0.2058, 0.2610

Inverse Universe

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



19.9147, 0.3648, 0.2144



28.1186, 0.3805, 0.2012



41.8010, 0.4279, 0.4464



11.3513, 0.3177, 0.3121



9.4877, 0.4003, 0.1979



0.5015, 0.3815, 0.1875

Previews

White Background



This preview shows how the Yxy color 33.6192, 0.2230, 0.2745 looks on a white background.

Color Contrast Check

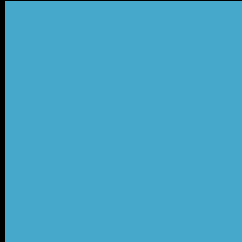
Large Text (above 18pt) WCAG AA × Fail

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 33.6192, 0.2230, 0.2745 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

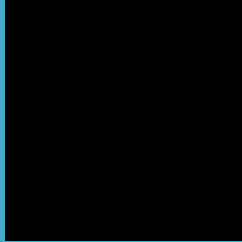
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.6192, 0.2230, 0.2745

Background



This preview shows how black text looks on a background with the Yxy color 33.6192, 0.2230, 0.2745.



This preview shows how white text looks on a background with the Yxy color 33.6192, 0.2230, 0.2745.

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

33.6192, 0.2230, 0.2745

Protanopia

33.1645, 0.2734, 0.2730

Deuteranopia

33.0783, 0.2606, 0.2546



Tritanopia

33.5893, 0.2293, 0.3058

Trichromacy



Original Color

33.6192, 0.2230, 0.2745

Protanomaly

32.7494, 0.2499, 0.2720

Deuteranomaly

32.5745, 0.2427, 0.2596

Tritanomaly

33.6452, 0.2268, 0.2935

Monochromacy



Original Color

33.6192, 0.2230, 0.2745

Achromatopsia

27.4677, 0.3127, 0.3290

Achromatomaly

28.8861, 0.2685, 0.3075

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.6192, 0.2230, 0.2745 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(70, 168, 203)` looks like.

```
.text, #text, p{  
    color:rgb(70, 168, 203)  
}
```

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(70, 168, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 168, 203) }
```

Border

The CSS property to change the border of an element to Yxy 33.6192, 0.2230, 0.2745 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(70, 168, 203) }
```

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

```
.border{ border-color:rgb(70, 168, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 168, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 168, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 168, 203);  
box-shadow:4px 4px 4px 4px rgb(70, 168,  
203) }
```


Background

The CSS property to change the background color of an element to Yxy 33.6192, 0.2230, 0.2745 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 168, 203) }
```

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

```
.background{ background-color: rgb(70, 168,  
203) }
```

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