

Converting Colors

$Y_{xy}(32.8877, 0.2157, 0.2932)$

Have a look what the booklet for
Yxy(32.8877, 0.2157, 0.2932)
contains.

Yxy(33.0098, 0.2159, 0.2942)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(33.0098, 0.2159, 0.2942)

Conversions

Conversions Part 1

Format	Color
Hex	0CABC0
RGB	12, 171, 192
RGB Percent	5%, 67%, 75%
CMY	0.9548, 0.3294, 0.2470
CMYK	0.94, 0.11, 0.00, 0.25
HSL	187°, 89%, 40%
HSV	187°, 94%, 75%
XYZ	24.2244, 33.0098, 54.9677
YIQ	125.8530, -101.5050, -27.1770

Conversions

Conversions Part 2

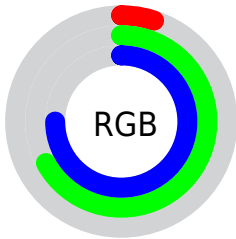
Format	Color
RYB	12, 96, 192
Decimal	830400
CIELab	64.17, -28.54, -21.03
CIELCh	64, 35.453, 216.378
Yxy	33.0098, 0.2159, 0.2942
Android (android.graphics.Color)	4279020480 (0xFF0CABC0)
YUV	125.8530, 32.6105, -99.8491
Hunter-Lab	57.4542, -25.2838, -16.5062

Details

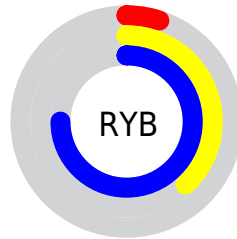
The Yxy color **33.0098, 0.2159, 0.2942** is a dark color, and the websafe version is hex **339999**. The color can be described as dark washed azure. A complement of this color would be **12.2946, 0.6177, 0.3400**, and the grayscale version is **20.6772, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.5403, 0.2342, 0.3029**, and **14.7918, 0.2121, 0.2835** is the 20% darker color. If you saturate the color by 10%, you get **32.4318, 0.2144, 0.2918**, and if you desaturate by 10%, it is **34.0745, 0.2193, 0.2982**.

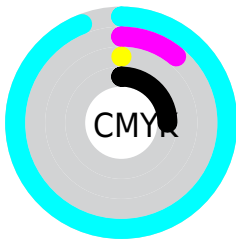
Distribution



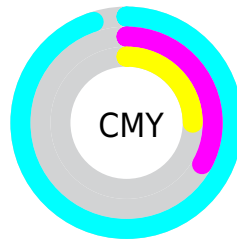
- Red (5%)
- Green (67%)
- Blue (75%)



- Red (5%)
- Yellow (38%)
- Blue (75%)



- Cyan (94%)
- Magenta (11%)
- Yellow (0%)
- Black (25%)





- Cyan (95%)
- Magenta (33%)
- Yellow (25%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 33.0098, 0.2159, 0.2942 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 33.0098, 0.2159, 0.2942 by changing the saturation by 10% instead.


 33.0098, 0.2159,
0.2942


 33.0098, 0.2159,
0.2942


315.6939, 0.2650,
0.3141


 22.1340, 0.2036,
0.2884


 64.3908, 0.2338,
0.3020


 13.9554, 0.1880,
0.2806


 85.6648, 0.2405,
0.3048

 8.0896, 0.1674,
0.2693


 111.1736, 0.2462,
0.3070

 4.1524, 0.1396,
0.2522

 141.3016, 0.2510,
0.3089

 1.7591, 0.1011,
0.2239

 176.4333, 0.2552,
0.3105

 0.4615, 0.0000,
0.1633

216.9529, 0.2589,

 0.0000, 0.0000,

0.3119

0.0000

263.2450, 0.2621,
0.3131

■ 33.0098, 0.2159,
0.2942

■ 33.0098, 0.2159,
0.2942

■ 32.4318, 0.2144,
0.2918

■ 34.0745, 0.2193,
0.2982

■ 35.3292, 0.2246,
0.3022

■ 36.8028, 0.2317,
0.3063

■ 38.5181, 0.2407,
0.3103

■ 40.4950, 0.2515,
0.3142

■ 42.7512, 0.2637,
0.3179

■ 45.3028, 0.2771,
0.3215

■ 48.1646, 0.2915,
0.3248

■ 51.3504, 0.3066,
0.3279

Harmonies

Analogous

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



33.0098, 0.2396, 0.3481



33.0098, 0.2159, 0.2942



33.0098, 0.2155, 0.2571

Triad

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



33.0098, 0.2159, 0.2942



33.0098, 0.3359, 0.2699



33.0098, 0.3877, 0.4222

Complementary

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



33.0098, 0.2159, 0.2942



12.2946, 0.6177, 0.3400

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.



33.0098, 0.4190, 0.3906



33.0098, 0.2159, 0.2942



33.0098, 0.3889, 0.3058

Square

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



33.0098, 0.2159, 0.2942



33.0098, 0.2804, 0.2471



33.0098, 0.4203, 0.3485



33.0098, 0.3377, 0.4289

Rectangle

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



33.0098, 0.2159, 0.2942



33.0098, 0.2279, 0.2445



33.0098, 0.4203, 0.3485



33.0098, 0.4009, 0.4136

Sweetspot

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



33.0110, 0.2159, 0.2942



79.9517, 0.2710, 0.3199



37.8690, 0.2976, 0.5863



16.7290, 0.2652, 0.3184



97.7402, 0.3127, 0.3290



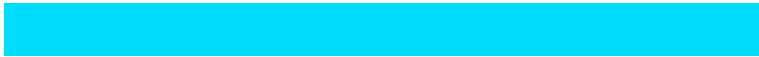
20.4902, 0.3127, 0.3290

Same Dimension

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



33.0110, 0.2159, 0.2942



58.5173, 0.2142, 0.2912



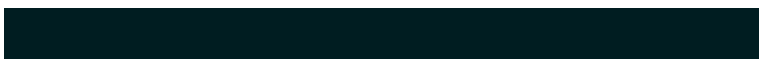
10.1786, 0.1727, 0.1373



11.2219, 0.2984, 0.3262



21.8950, 0.2145, 0.2923



1.0038, 0.2170, 0.3012

Inverse Universe

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



14.3999, 0.3504, 0.1727



25.5168, 0.3533, 0.1720



24.6220, 0.5026, 0.4342



10.2267, 0.3155, 0.3089



9.4925, 0.3522, 0.1714



0.4160, 0.3443, 0.1671

Previews

White Background



This preview shows how the Yxy color 33.0098, 0.2159, 0.2942 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 33.0098, 0.2159, 0.2942 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

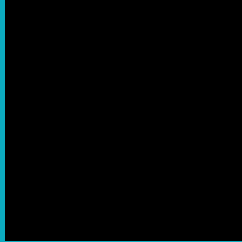
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.0098, 0.2159, 0.2942

Background



This preview shows how black text looks on a background with the Yxy color 33.0098, 0.2159, 0.2942.



This preview shows how white text looks on a background with the Yxy color 33.0098, 0.2159, 0.2942.

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

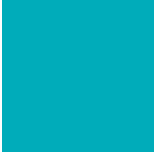
33.0098, 0.2159, 0.2942

Protanopia

32.4673, 0.2853, 0.2892

Deuteranopia

32.7379, 0.2717, 0.2663



Tritanopia

33.0502, 0.2181, 0.3053

Trichromacy



Original Color

33.0098, 0.2159, 0.2942



Protanomaly

31.2550, 0.2450, 0.2904



Deuteranomaly

31.3331, 0.2376, 0.2728



Tritanomaly

33.1617, 0.2176, 0.3021

Monochromacy



Original Color

33.0098, 0.2159, 0.2942



Achromatopsia

20.8637, 0.3127, 0.3290



Achromatomaly

23.4328, 0.2523, 0.3139

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.0098, 0.2159, 0.2942 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(12, 171, 192)` looks like.

```
.text, #text, p{  
    color:rgb(12, 171, 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(12, 171, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 171, 192) }
```

Border

The CSS property to change the border of an element to Yxy 33.0098, 0.2159, 0.2942 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(12, 171, 192) }
```

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

```
.border{ border-color:rgb(12, 171, 192) }
```

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

Here you see how a box with a 4 pixel rgb(12, 171, 192) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 171, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 171, 192);  
box-shadow:4px 4px 4px 4px rgb(12, 171,  
192) }
```


Background

The CSS property to change the background color of an element to Yxy 33.0098, 0.2159, 0.2942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 171, 192) }
```

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

```
.background{ background-color: rgb(12, 171,  
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](#).

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