

Converting Colors

$Y_{xy}(32.2841, 0.2315, 0.4071)$

Have a look what the booklet for
Yxy(32.2841, 0.2315, 0.4071)
contains.

Yxy(33.2219, 0.2458, 0.4050)	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(33.2219, 0.2458, 0.4050)

Conversions

Conversions Part 1

Format	Color
Hex	00B188
RGB	0, 177, 136
RGB Percent	0%, 69%, 53%
CMY	1.0000, 0.3058, 0.4666
CMYK	1.00, 0.00, 0.23, 0.31
HSL	166°, 100%, 35%
HSV	166°, 100%, 69%
XYZ	20.1628, 33.2219, 28.6447
YIQ	119.4030, -92.3310, -50.2750

Conversions

Conversions Part 2

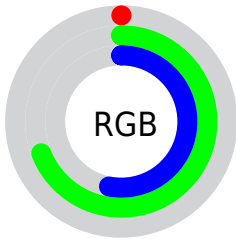
Format	Color
RYB	0, 100, 177
Decimal	45448
CIELab	64.34, -48.09, 10.37
CIELCh	64, 49.198, 167.837
Yxy	33.2219, 0.2458, 0.4050
Android (android.graphics.Color)	4278235528 (0xFF00B188)
YUV	119.4030, 8.1823, -104.7164
Hunter-Lab	57.6384, -38.4252, 10.8815

Details

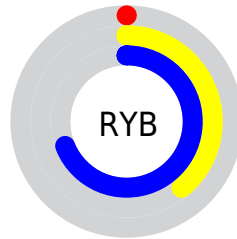
The Yxy color **33.2219, 0.2458, 0.4050** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **9.5083, 0.5979, 0.3067**, and the grayscale version is **18.5796, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8994, 0.2596, 0.3897**, and **14.8378, 0.2518, 0.4263** is the 20% darker color. If you saturate the color by 10%, you get **33.2256, 0.2458, 0.4050**, and if you desaturate by 10%, it is **33.4702, 0.2454, 0.3966**.

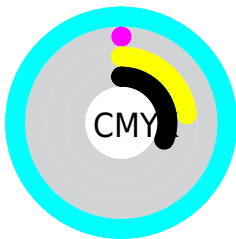
Distribution



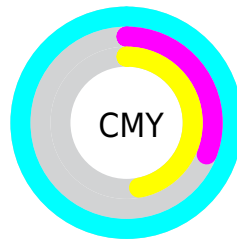
- Red (0%)
- Green (69%)
- Blue (53%)



- Red (0%)
- Yellow (39%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (31%)





- Cyan (100%)
- Magenta (31%)
- Yellow (47%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.2219, 0.2458, 0.4050 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 33.2219, 0.2458, 0.4050 by changing the saturation by 10% instead.


 33.2219, 0.2458,
0.4050


 33.2219, 0.2458,
0.4050


 316.6484, 0.2817,
0.3632

 22.2965, 0.2360,
0.4169


 64.7218, 0.2595,
0.3888


 14.0749, 0.2229,
0.4330


 86.0651, 0.2644,
0.3830


 8.1728, 0.2045,
0.4563


 111.6498, 0.2685,
0.3783

 4.2057, 0.1772,
0.4924

 141.8603, 0.2720,
0.3743

 1.7893, 0.1070,
0.5719

 177.0811, 0.2750,
0.3709

 0.4805, 0.0000,
1.0000

 217.6964, 0.2775,

 0.0000, 0.0000,

0.3680

0.0000

264.0907, 0.2798,
0.3654

■ 33.2219, 0.2458,
0.4050

■ 33.2219, 0.2458,
0.4050

■ 33.2256, 0.2458,
0.4050

■ 33.4702, 0.2454,
0.3966

■ 33.8322, 0.2464,
0.3881

■ 34.3554, 0.2493,
0.3796

■ 35.0604, 0.2542,
0.3712

■ 35.9648, 0.2608,
0.3630

■ 37.0840, 0.2691,
0.3552

■ 38.4319, 0.2787,
0.3479

■ 40.0213, 0.2893,
0.3410

■ 41.8639, 0.3008,
0.3347

Harmonies

Analogous

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



33.2219, 0.3149, 0.4626



33.2219, 0.2458, 0.4050



33.2219, 0.1983, 0.3227

Triad

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



33.2219, 0.2458, 0.4050



33.2219, 0.2303, 0.2133



33.2219, 0.4653, 0.3725

Complementary

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



33.2219, 0.2458, 0.4050



9.5083, 0.5979, 0.3067

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.



33.2219, 0.4399, 0.3163



33.2219, 0.2458, 0.4050



33.2219, 0.2950, 0.2298

Square

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



33.2219, 0.2458, 0.4050



33.2219, 0.1915, 0.2208



33.2219, 0.3738, 0.2662



33.2219, 0.4435, 0.4271

Rectangle

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



33.2219, 0.2458, 0.4050



33.2219, 0.1831, 0.2753



33.2219, 0.3738, 0.2662



33.2219, 0.4623, 0.3535

Sweetspot

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



33.2256, 0.2458, 0.4050



68.6887, 0.2782, 0.3482



31.9254, 0.3091, 0.5927



14.6619, 0.2741, 0.3512



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



33.2256, 0.2458, 0.4050



59.4638, 0.2462, 0.4064



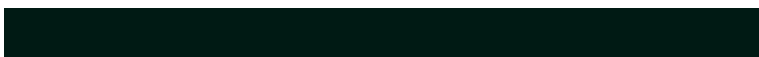
19.0885, 0.2001, 0.2403



9.5972, 0.3016, 0.3343



24.0800, 0.2456, 0.4041



0.7659, 0.2391, 0.3806

Inverse Universe

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



9.5083, 0.5979, 0.3067



16.9989, 0.6017, 0.3088



11.3974, 0.6035, 0.3590



8.5365, 0.3252, 0.3237



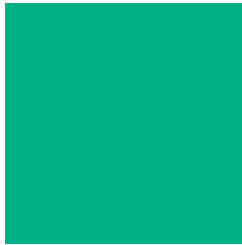
6.8963, 0.5953, 0.3053



0.2260, 0.5174, 0.2624

Previews

White Background



This preview shows how the Yxy color 33.2219, 0.2458, 0.4050 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 33.2219, 0.2458, 0.4050 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

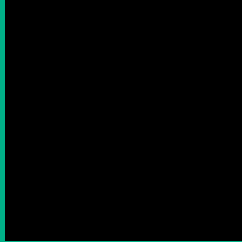
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.2219, 0.2458, 0.4050

Background



This preview shows how black text looks on a background with the Yxy color 33.2219, 0.2458, 0.4050.

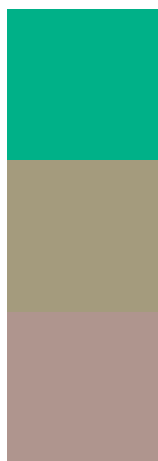


This preview shows how white text looks on a background with the Yxy color 33.2219, 0.2458, 0.4050.

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

33.2219, 0.2458, 0.4050

Protanopia

32.8159, 0.3506, 0.3743

Deuteranopia

32.5618, 0.3470, 0.3392



Tritanopia

33.4273, 0.2284, 0.3073

Trichromacy



Original Color

33.2219, 0.2458, 0.4050



Protanomaly

30.7224, 0.2882, 0.3889



Deuteranomaly

30.0692, 0.2850, 0.3617



Tritanomaly

33.0522, 0.2324, 0.3392

Monochromacy



Original Color

33.2219, 0.2458, 0.4050



Achromatopsia

18.4475, 0.3127, 0.3290



Achromatomaly

21.7733, 0.2651, 0.3593

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.2219, 0.2458, 0.4050 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(0, 177, 136)` looks like.

```
.text, #text, p{  
    color:rgb(0, 177, 136)  
}
```

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(0, 177, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 136) }
```

Border

The CSS property to change the border of an element to Yxy 33.2219, 0.2458, 0.4050 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(0, 177, 136) }
```

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

```
.border{ border-color:rgb(0, 177, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 177, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 136);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
136) }
```


Background

The CSS property to change the background color of an element to Yxy 33.2219, 0.2458, 0.4050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 136) }
```

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

```
.background{ background-color: rgb(0, 177,  
136) }
```

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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