

Converting Colors

$Y_{xy}(33.3838, 0.2505, 0.4020)$

Have a look what the booklet for
Yxy(33.3838, 0.2505, 0.4020)
contains.

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Color

Yxy(33.2141, 0.2500, 0.4005)

Conversions

Conversions Part 1

Format	Color
Hex	23B089
RGB	35, 176, 137
RGB Percent	14%, 69%, 54%
CMY	0.8628, 0.3098, 0.4627
CMYK	0.80, 0.00, 0.22, 0.31
HSL	163°, 67%, 41%
HSV	163°, 80%, 69%
XYZ	20.7329, 33.2141, 28.9846
YIQ	129.3950, -71.5170, -42.0210

Conversions

Conversions Part 2

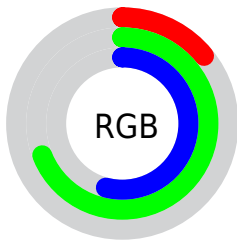
Format	Color
RYB	35, 117, 176
Decimal	2338953
CIELab	64.33, -45.28, 9.85
CIELCh	64, 46.341, 167.728
Yxy	33.2141, 0.2500, 0.4005
Android (android.graphics.Color)	4280529033 (0xFF23B089)
YUV	129.3950, 3.7493, -82.7844
Hunter-Lab	57.6317, -36.6404, 10.5236

Details

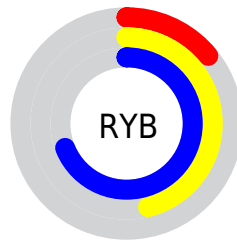
The Yxy color **33.2141, 0.2500, 0.4005** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **10.9253, 0.5167, 0.2859**, and the grayscale version is **22.1020, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.4342, 0.2629, 0.3853**, and **14.6072, 0.2504, 0.4214** is the 20% darker color. If you saturate the color by 10%, you get **32.8446, 0.2494, 0.4108**, and if you desaturate by 10%, it is **33.7468, 0.2526, 0.3902**.

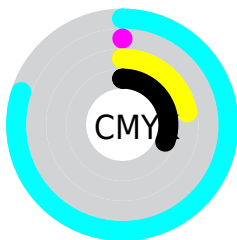
Distribution



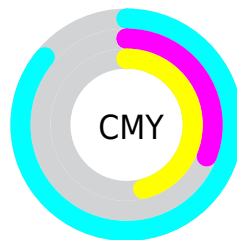
- Red (14%)
- Green (69%)
- Blue (54%)



- Red (14%)
- Yellow (46%)
- Blue (69%)



- Cyan (80%)
- Magenta (0%)
- Yellow (22%)
- Black (31%)





- Cyan (86%)
- Magenta (31%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.2141, 0.2500, 0.4005 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 33.2141, 0.2500, 0.4005 by changing the saturation by 10% instead.


 33.2141, 0.2500,
0.4005


 33.2141, 0.2500,
0.4005


316.6134, 0.2837,
0.3613

 22.2905, 0.2408,
0.4116


 64.7096, 0.2628,
0.3853


 14.0705, 0.2285,
0.4267


 86.0504, 0.2674,
0.3799

 8.1697, 0.2112,
0.4485


 111.6323, 0.2713,
0.3754

 4.2037, 0.1854,
0.4824

 141.8398, 0.2745,
0.3717

 1.7882, 0.1246,
0.5533

 177.0573, 0.2773,
0.3685

 0.4798, 0.0000,
1.0000

217.6691, 0.2797,

 0.0000, 0.0000,

0.3657

0.0000

264.0597, 0.2818,
0.3634

■ 33.2141, 0.2500,
0.4005

■ 33.2141, 0.2500,
0.4005

■ 32.8446, 0.2494,
0.4108

■ 33.7468, 0.2526,
0.3902

■ 32.5932, 0.2503,
0.4209

■ 34.4593, 0.2570,
0.3800

■ 35.3702, 0.2633,
0.3701

■ 36.4947, 0.2711,
0.3606

■ 37.8467, 0.2803,
0.3518

■ 39.4388, 0.2904,
0.3435

■ 41.2825, 0.3013,
0.3359

■ 43.3888, 0.3126,
0.3291

■ 45.7679, 0.3241,
0.3229

Harmonies

Analogous

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



33.2141, 0.3157, 0.4542



33.2141, 0.2500, 0.4005



33.2141, 0.2045, 0.3238

Triad

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



33.2141, 0.2500, 0.4005



33.2141, 0.2345, 0.2189



33.2141, 0.4568, 0.3711

Complementary

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



33.2141, 0.2500, 0.4005



10.9253, 0.5167, 0.2859

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.



33.2141, 0.4323, 0.3174



33.2141, 0.2500, 0.4005



33.2141, 0.2959, 0.2345

Square

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



33.2141, 0.2500, 0.4005



33.2141, 0.1974, 0.2265



33.2141, 0.3702, 0.2694



33.2141, 0.4370, 0.4227

Rectangle

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



33.2141, 0.2500, 0.4005



33.2141, 0.1896, 0.2791



33.2141, 0.3702, 0.2694



33.2141, 0.4537, 0.3530

Sweetspot

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



33.2154, 0.2500, 0.4005



70.2314, 0.2859, 0.3470



32.6667, 0.3212, 0.5603



15.0060, 0.2824, 0.3499



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.



33.2154, 0.2500, 0.4005



59.2233, 0.2501, 0.4185



23.8796, 0.2145, 0.2735



9.5906, 0.3021, 0.3354



23.9232, 0.2500, 0.4198



0.7620, 0.2420, 0.3913

Inverse Universe

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



10.9253, 0.5167, 0.2859



17.3833, 0.5762, 0.2974



13.1936, 0.5531, 0.3625



8.5426, 0.3245, 0.3227



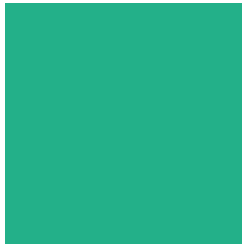
6.9417, 0.5808, 0.2973



0.2285, 0.5003, 0.2530

Previews

White Background



This preview shows how the Yxy color 33.2141, 0.2500, 0.4005 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 33.2141, 0.2500, 0.4005 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

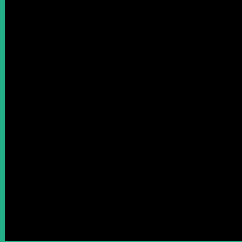
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.2141, 0.2500, 0.4005

Background



This preview shows how black text looks on a background with the Yxy color 33.2141, 0.2500, 0.4005.



This preview shows how white text looks on a background with the Yxy color 33.2141, 0.2500, 0.4005.

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

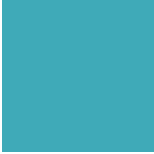
33.2141, 0.2500, 0.4005

Protanopia

32.5101, 0.3499, 0.3714

Deuteranopia

32.4767, 0.3449, 0.3378



Tritanopia

33.2669, 0.2305, 0.3058

Trichromacy



Original Color

33.2141, 0.2500, 0.4005



Protanomaly

31.2343, 0.2984, 0.3838



Deuteranomaly

30.9303, 0.2946, 0.3591



Tritanomaly

33.0520, 0.2368, 0.3374

Monochromacy



Original Color

33.2141, 0.2500, 0.4005



Achromatopsia

21.9526, 0.3127, 0.3290



Achromatomaly

24.6566, 0.2761, 0.3553

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.2141, 0.2500, 0.4005 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(35, 176, 137)` looks like.

```
.text, #text, p{  
    color:rgb(35, 176, 137)  
}
```

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(35, 176, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 176, 137) }
```

Border

The CSS property to change the border of an element to Yxy 33.2141, 0.2500, 0.4005 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(35, 176, 137) }
```

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

```
.border{ border-color:rgb(35, 176, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 176, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 176, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 176, 137);  
box-shadow:4px 4px 4px 4px rgb(35, 176,  
137) }
```


Background

The CSS property to change the background color of an element to Yxy 33.2141, 0.2500, 0.4005 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 176, 137) }
```

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

```
.background{ background-color: rgb(35, 176,  
137) }
```

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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