

# Converting Colors

$Y_{xy}(46.1338, 0.2351, 0.3288)$

Have a look what the booklet for  
Yxy(46.1338, 0.2351, 0.3288)  
contains.

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# Color

**Yxy(46.1286, 0.2351, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42C7C7
RGB	66, 199, 199
RGB Percent	26%, 78%, 78%
CMY	0.7406, 0.2196, 0.2197
CMYK	0.67, 0.00, 0.00, 0.22
HSL	180°, 54%, 52%
HSV	180°, 67%, 78%
XYZ	32.9831, 46.1286, 61.1821
YIQ	159.2330, -79.2680, -28.1960

# Conversions

## Conversions Part 2

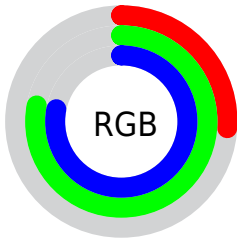
Format	Color
<a href="#">RYB</a>	<a href="#">66, 133, 199</a>
Decimal	<a href="#">4376519</a>
CIELab	<a href="#">73.63, -34.97, -10.51</a>
CIElCh	<a href="#">74, 36.514, 196.721</a>
Yxy	<a href="#">46.1286, 0.2351, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4282566599 (0xFF42C7C7)</a>
YUV	<a href="#">159.2330, 19.6051, -81.7653</a>
Hunter-Lab	<a href="#">67.9180, -32.1715, -5.8672</a>

# Details

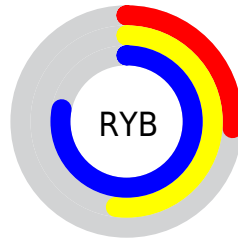
The Yxy color **46.1286, 0.2351, 0.3288** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **16.4494, 0.5310, 0.3296**, and the grayscale version is **34.7360, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.5653, 0.2486, 0.3288**, and **21.9909, 0.2241, 0.3267** is the 20% darker color. If you saturate the color by 10%, you get **45.5535, 0.2300, 0.3288**, and if you desaturate by 10%, it is **46.9477, 0.2421, 0.3288**.

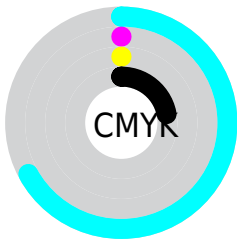
# Distribution



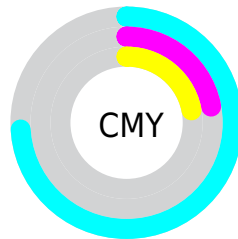
- Red (26%)
- Green (78%)
- Blue (78%)



- Red (26%)
- Yellow (52%)
- Blue (78%)



- Cyan (67%)
- Magenta (0%)
- Yellow (0%)
- Black (22%)



- Cyan (74%)
- Magenta (22%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.1286, 0.2351, 0.3288 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 46.1286, 0.2351, 0.3288 by changing the saturation by 10% instead.





 46.1286, 0.2351,  
0.3288


 46.1286, 0.2351,  
0.3288


371.3254, 0.2730,  
0.3299

 32.3473, 0.2260,  
0.3282


 84.4114, 0.2486,  
0.3295


 21.6269, 0.2145,  
0.3272


 109.6818, 0.2538,  
0.3296

 13.5830, 0.1996,  
0.3256


 139.5506, 0.2582,  
0.3297

 7.8312, 0.1796,  
0.3228

 174.4022, 0.2620,  
0.3298

 3.9871, 0.1518,  
0.3174

214.6211, 0.2653,  
0.3299

 1.6664, 0.1070,  
0.3071

260.5917, 0.2681,

 0.4017, 0.0000,

0.3299

0.2528

312.6984, 0.2707,  
0.3299

0.0000, 0.0000,  
0.0000

46.1286, 0.2351,  
0.3288

46.1286, 0.2351,  
0.3288

45.5535, 0.2300,  
0.3288

46.9477, 0.2421,  
0.3288

45.1911, 0.2267,  
0.3288

48.0279, 0.2510,  
0.3288

45.0084, 0.2251,  
0.3288

49.3910, 0.2617,  
0.3289

44.9668, 0.2247,  
0.3288

51.0547, 0.2740,  
0.3289

53.0357, 0.2877,  
0.3289

■ 55.3492, 0.3023,  
0.3290

■ 58.0094, 0.3178,  
0.3290

■ 61.0299, 0.3337,  
0.3291

■ 64.4233, 0.3498,  
0.3291

# Harmonies

## Analogous

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



46.1286, 0.2703, 0.3799



46.1286, 0.2351, 0.3288



46.1286, 0.2202, 0.2833

# Triad

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



46.1286, 0.2351, 0.3288



46.1286, 0.3000, 0.2585



46.1286, 0.4037, 0.3983

# Complementary

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



46.1286, 0.2351, 0.3288



16.4494, 0.5310, 0.3296

# 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.



46.1286, 0.4149, 0.3616



46.1286, 0.2351, 0.3288



46.1286, 0.3522, 0.2846

# Square

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



46.1286, 0.2351, 0.3288



46.1286, 0.2551, 0.2476



46.1286, 0.3958, 0.3211



46.1286, 0.3678, 0.4203



# Rectangle

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



46.1286, 0.2351, 0.3288



46.1286, 0.2225, 0.2624



46.1286, 0.3958, 0.3211



46.1286, 0.4107, 0.3871

# Sweetspot

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



46.1303, 0.2351, 0.3288



91.5769, 0.2827, 0.3289



42.4816, 0.3037, 0.5417



19.3894, 0.2788, 0.3289



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.



46.1303, 0.2351, 0.3288



79.4418, 0.2283, 0.3288



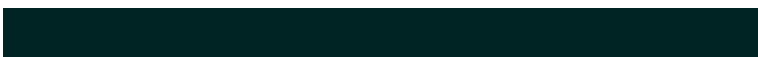
22.5534, 0.2098, 0.2233



12.0676, 0.2984, 0.3290



28.9161, 0.2247, 0.3288



1.3692, 0.2247, 0.3288



# Inverse Universe

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



16.4494, 0.5310, 0.3296



23.8670, 0.5945, 0.3298



28.5958, 0.4643, 0.4077



10.6370, 0.3290, 0.3290



7.8077, 0.6401, 0.3300

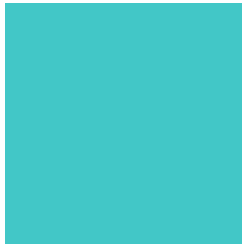


0.3697, 0.6400, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 46.1286, 0.2351, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

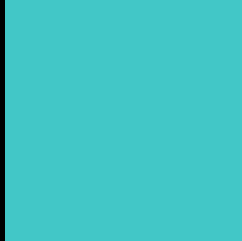
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.1286, 0.2351, 0.3288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

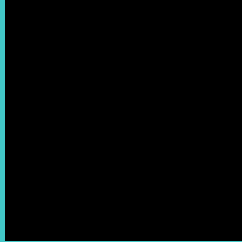
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

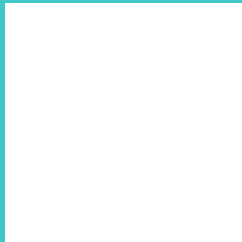
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.1286, 0.2351, 0.3288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.1286, 0.2351, 0.3288.

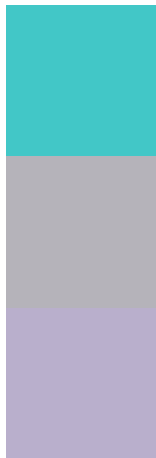


This preview shows how white text looks on a background with the Yxy color 46.1286, 0.2351, 0.3288.

# 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

46.1286, 0.2351, 0.3288

### Protanopia

45.6091, 0.3089, 0.3199

### Deuteranopia

45.3339, 0.2983, 0.2925



## Tritanopia

46.1924, 0.2304, 0.3059

# Trichromacy



## Original Color

46.1286, 0.2351, 0.3288



## Protanomaly

44.3684, 0.2728, 0.3219



## Deuteranomaly

44.2960, 0.2675, 0.3042



## Tritanomaly

46.2818, 0.2321, 0.3143

# Monochromacy



## Original Color

46.1286, 0.2351, 0.3288



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

37.6881, 0.2726, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.1286, 0.2351, 0.3288 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(66, 199, 199)` looks like.

```
.text, #text, p{  
    color:rgb(66, 199, 199)  
}
```

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(66, 199, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 199, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 46.1286, 0.2351, 0.3288 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(66, 199, 199) }
```

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

```
.border{ border-color:rgb(66, 199, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 199, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 199, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 199, 199);  
box-shadow:4px 4px 4px 4px rgb(66, 199,  
199) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.1286, 0.2351, 0.3288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 199, 199) }
```

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

```
.background{ background-color: rgb(66, 199,  
199) }
```

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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