

# Converting Colors

$Y_{xy}(46.3228, 0.2202, 0.3084)$

Have a look what the booklet for  
Yxy(46.3228, 0.2202, 0.3084)  
contains.

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# Color

**Yxy(46.3020, 0.2201, 0.3083)**

# Conversions

## Conversions Part 1

Format	Color
Hex	13C8D6
RGB	19, 200, 214
RGB Percent	7%, 78%, 84%
CMY	0.9272, 0.2156, 0.1607
CMYK	0.91, 0.07, 0.00, 0.16
HSL	184°, 84%, 46%
HSV	184°, 91%, 84%
XYZ	33.0557, 46.3020, 70.8272
YIQ	147.4770, -112.3700, -34.0180

# Conversions

## Conversions Part 2

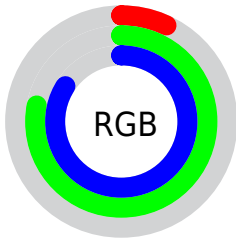
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	19, 113, 214
Decimal	1296598
CIE Lab	73.74, -35.20, -18.57
CIE LCh	74, 39.792, 207.811
Yxy	46.3020, 0.2201, 0.3083
Android (android.graphics.Color)	4279486678 (0xFF13C8D6)
YUV	147.4770, 32.7958, -112.6743
Hunter-Lab	68.0456, -32.3667, -14.0818

# Details

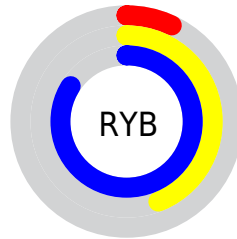
The Yxy color **46.3020, 0.2201, 0.3083** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.4088, 0.6188, 0.3359**, and the grayscale version is **29.2274, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1195, 0.2417, 0.3288**, and **22.7540, 0.2171, 0.3015** is the 20% darker color. If you saturate the color by 10%, you get **45.5561, 0.2184, 0.3062**, and if you desaturate by 10%, it is **47.3342, 0.2234, 0.3107**.

# Distribution



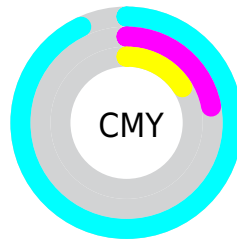
- Red (7%)
- Green (78%)
- Blue (84%)



- Red (7%)
- Yellow (44%)
- Blue (84%)



- Cyan (91%)
- Magenta (7%)
- Yellow (0%)
- Black (16%)




- Cyan (93%)
- Magenta (22%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3020, 0.2201, 0.3083 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 46.3020, 0.2201, 0.3083 by changing the saturation by 10% instead.





 46.3020, 0.2201,  
0.3083


 46.3020, 0.2201,  
0.3083


372.0215, 0.2647,  
0.3202


 32.4842, 0.2096,  
0.3049


 84.6708, 0.2359,  
0.3129


 21.7316, 0.1965,  
0.3004


 109.9906, 0.2419,  
0.3146


 13.6598, 0.1798,  
0.2940


 139.9131, 0.2471,  
0.3159

 7.8844, 0.1579,  
0.2845

 174.8229, 0.2516,  
0.3171

 4.0211, 0.1284,  
0.2694

 215.1042, 0.2555,  
0.3180

 1.6854, 0.0849,  
0.2439

261.1414, 0.2589,

 0.4142, 0.0000,

0.3189

0.1729

313.3191, 0.2620,  
0.3196

■ 0.0000, 0.0000,  
0.0000

■ 46.3020, 0.2201,  
0.3083

■ 46.3020, 0.2201,  
0.3083

■ 45.5561, 0.2184,  
0.3062

■ 47.3342, 0.2234,  
0.3107

■ 48.6089, 0.2285,  
0.3132

■ 50.1622, 0.2355,  
0.3156

■ 52.0227, 0.2444,  
0.3181

■ 54.2155, 0.2551,  
0.3204

■ 56.7632, 0.2673,  
0.3227

■ 59.6861, 0.2809,  
0.3249

■ 63.0033, 0.2954,  
0.3269

■ 66.7322, 0.3107,  
0.3288

# Harmonies

## Analogous

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



46.3020, 0.2502, 0.3645



46.3020, 0.2201, 0.3083



46.3020, 0.2130, 0.2654

# Triad

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



46.3020, 0.2201, 0.3083



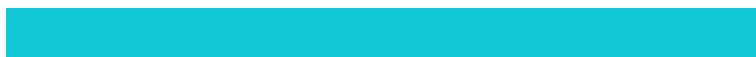
46.3020, 0.3195, 0.2617



46.3020, 0.3993, 0.4152

# Complementary

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



46.3020, 0.2201, 0.3083



15.4088, 0.6188, 0.3359

# 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.



46.3020, 0.4230, 0.3792



46.3020, 0.2201, 0.3083



46.3020, 0.3754, 0.2945

# Square

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



46.3020, 0.2201, 0.3083



46.3020, 0.2663, 0.2434



46.3020, 0.4147, 0.3360



46.3020, 0.3532, 0.4306



# Rectangle

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



46.3020, 0.2201, 0.3083



46.3020, 0.2212, 0.2485



46.3020, 0.4147, 0.3360



46.3020, 0.4103, 0.4048

# Sweetspot

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



46.3037, 0.2201, 0.3083



86.0893, 0.2727, 0.3236



48.3404, 0.2986, 0.5875



18.1171, 0.2681, 0.3228



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.



46.3037, 0.2201, 0.3083



67.6270, 0.2183, 0.3060



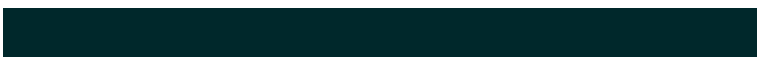
14.7421, 0.1770, 0.1511



13.9483, 0.2983, 0.3273



27.5945, 0.2185, 0.3066



1.7110, 0.2197, 0.3107



# Inverse Universe

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



18.9210, 0.3380, 0.1666



27.3581, 0.3402, 0.1648



30.1300, 0.5077, 0.4280



12.6166, 0.3149, 0.3076



11.1305, 0.3397, 0.1645

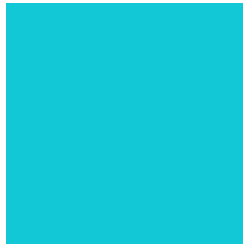


0.6760, 0.3361, 0.1625



# Previews

## White Background



This preview shows how the Yxy color 46.3020, 0.2201, 0.3083 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

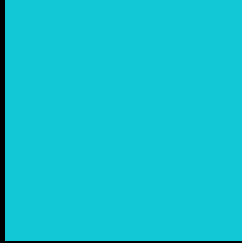
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3020, 0.2201, 0.3083 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

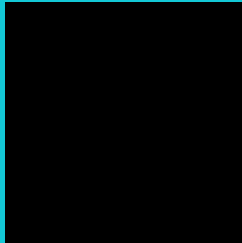
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

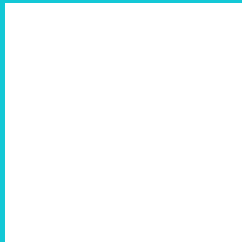
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.3020, 0.2201, 0.3083**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.3020, 0.2201, 0.3083.

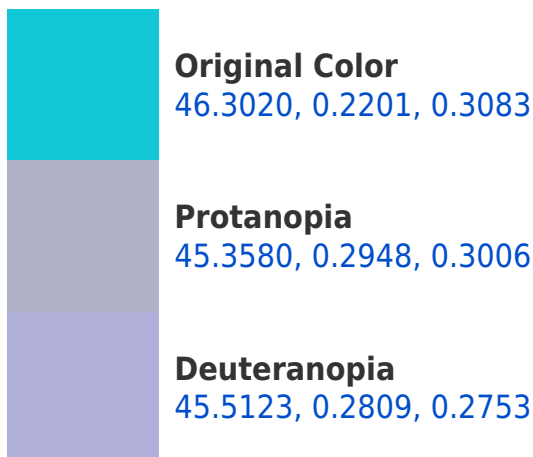


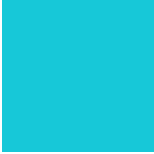
This preview shows how white text looks on a background with the Yxy color 46.3020, 0.2201, 0.3083.

# 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





## Tritanopia

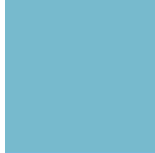
46.4486, 0.2197, 0.3055

# Trichromacy



## Original Color

46.3020, 0.2201, 0.3083



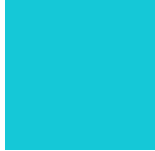
## Protanomaly

43.4475, 0.2515, 0.3020



## Deuteranomaly

43.6296, 0.2447, 0.2848



## Tritanomaly

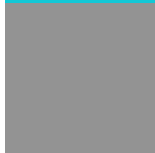
46.3743, 0.2199, 0.3069

# Monochromacy



## Original Color

46.3020, 0.2201, 0.3083



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

32.9220, 0.2556, 0.3207

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.3020, 0.2201, 0.3083 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(19, 200, 214)` looks like.

```
.text, #text, p{  
    color:rgb(19, 200, 214)  
}
```

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(19, 200, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 200, 214) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3020, 0.2201, 0.3083 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(19, 200, 214) }
```

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

```
.border{ border-color:rgb(19, 200, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(19, 200, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 200, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 200, 214);  
box-shadow:4px 4px 4px 4px rgb(19, 200,  
214) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3020, 0.2201, 0.3083 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 200, 214) }
```

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

```
.background{ background-color: rgb(19, 200,  
214) }
```

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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