

# Converting Colors

$Y_{xy}(28.8867, 0.1864, 0.2760)$

Have a look what the booklet for  
Yxy(28.8867, 0.1864, 0.2760)  
contains.

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# Color

**Yxy(30.8504, 0.2109, 0.2792)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A5C3
RGB	0, 165, 195
RGB Percent	0%, 65%, 76%
CMY	0.9997, 0.3529, 0.2354
CMYK	1.00, 0.15, 0.00, 0.24
HSL	189°, 100%, 38%
HSV	189°, 100%, 76%
XYZ	23.3035, 30.8504, 56.3418
YIQ	119.0850, -107.9700, -25.6500

# Conversions

## Conversions Part 2

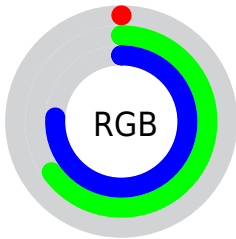
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 89, 195
Decimal	42435
CIELab	62.38, -24.91, -25.43
CIELCh	62, 35.593, 225.591
Yxy	30.8504, 0.2109, 0.2792
Android (android.graphics.Color)	4278232515 (0xFF00A5C3)
YUV	119.0850, 37.4261, -104.4375
Hunter-Lab	55.5431, -22.3095, -21.2623

# Details

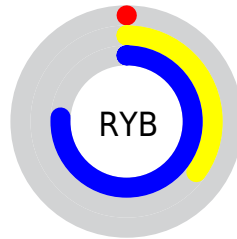
The Yxy color **30.8504, 0.2109, 0.2792** is a dark color, and the websafe version is hex **0099CC**. The color can be described as dark washed azure. A complement of this color would be **12.5300, 0.6257, 0.3414**, and the grayscale version is **18.3884, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.8673, 0.2295, 0.2892**, and **13.7333, 0.2071, 0.2655** is the 20% darker color. If you saturate the color by 10%, you get **30.8469, 0.2109, 0.2792**, and if you desaturate by 10%, it is **32.0897, 0.2140, 0.2846**.

# Distribution



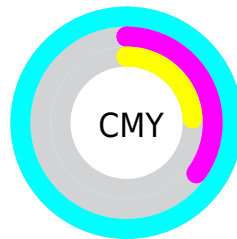
- Red (0%)
- Green (65%)
- Blue (76%)



- Red (0%)
- Yellow (35%)
- Blue (76%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (24%)



- Cyan (100%)
- Magenta (35%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8504, 0.2109, 0.2792 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 30.8504, 0.2109, 0.2792 by changing the saturation by 10% instead.



 30.8504, 0.2109,  
0.2792


 30.8504, 0.2109,  
0.2792


305.8485, 0.2628,  
0.3071


 20.4850, 0.1979,  
0.2713


 61.0045, 0.2299,  
0.2900

 12.7481, 0.1813,  
0.2607


 81.5619, 0.2370,  
0.2939


 7.2553, 0.1595,  
0.2458


 106.2854, 0.2430,  
0.2970

 3.6223, 0.1303,  
0.2237

 135.5594, 0.2481,  
0.2997

 1.4646, 0.0896,  
0.1889

 169.7684, 0.2525,  
0.3020

 0.2636, 0.0000,  
0.0942

209.2966, 0.2564,

 0.0000, 0.0000,

0.3039

0.0000

254.5285, 0.2598,  
0.3056

■ 30.8504, 0.2109,  
0.2792

■ 30.8504, 0.2109,  
0.2792

■ 30.8469, 0.2109,  
0.2792

■ 32.0897, 0.2140,  
0.2846

■ 33.4981, 0.2186,  
0.2900

■ 35.1276, 0.2251,  
0.2955

■ 37.0049, 0.2335,  
0.3009

■ 39.1524, 0.2437,  
0.3063

■ 41.5898, 0.2555,  
0.3114

■ 44.3349, 0.2686,  
0.3163

■ 47.4039, 0.2827,  
0.3209

■ 50.8117, 0.2975,  
0.3251

# Harmonies

## Analogous

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



30.8504, 0.2278, 0.3304



30.8504, 0.2109, 0.2792



30.8504, 0.2178, 0.2481

# Triad

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



30.8504, 0.2109, 0.2792



30.8504, 0.3544, 0.2786



30.8504, 0.3751, 0.4302

# Complementary

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



30.8504, 0.2109, 0.2792



12.5300, 0.6257, 0.3414

# 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.



30.8504, 0.4147, 0.4037



30.8504, 0.2109, 0.2792



30.8504, 0.4040, 0.3181

# Square

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



30.8504, 0.2109, 0.2792



30.8504, 0.2961, 0.2506



30.8504, 0.4264, 0.3624



30.8504, 0.3209, 0.4269



# Rectangle

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



30.8504, 0.2109, 0.2792



30.8504, 0.2351, 0.2399



30.8504, 0.4264, 0.3624



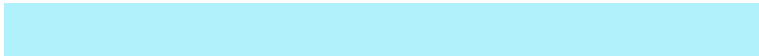
30.8504, 0.3906, 0.4239

# Sweetspot

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



30.8515, 0.2109, 0.2792



79.1649, 0.2679, 0.3160



39.1104, 0.2966, 0.5878



16.8607, 0.2622, 0.3140



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.



30.8515, 0.2109, 0.2792



54.9622, 0.2107, 0.2784



8.1089, 0.1644, 0.1117



11.1560, 0.2984, 0.3254



20.1538, 0.2111, 0.2799



0.9436, 0.2144, 0.2919



# Inverse Universe

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



14.3174, 0.3642, 0.1780



25.6156, 0.3650, 0.1784



26.7161, 0.4981, 0.4427



10.2200, 0.3161, 0.3097



9.3168, 0.3635, 0.1776



0.4099, 0.3526, 0.1716



# Previews

## White Background



This preview shows how the Yxy color 30.8504, 0.2109, 0.2792 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 30.8504, 0.2109, 0.2792 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

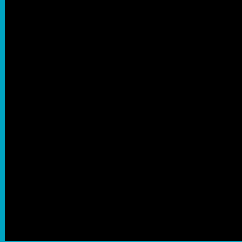
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.8504, 0.2109, 0.2792**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.8504, 0.2109, 0.2792.

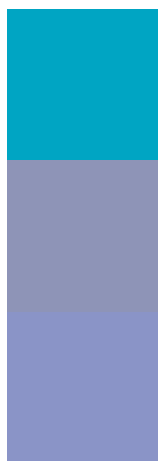


This preview shows how white text looks on a background with the Yxy color 30.8504, 0.2109, 0.2792.

# 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

30.8504, 0.2109, 0.2792

### Protanopia

30.3495, 0.2761, 0.2767

### Deuteranopia

30.7066, 0.2606, 0.2551



## Tritanopia

30.9327, 0.2184, 0.3063

# Trichromacy



## Original Color

30.8504, 0.2109, 0.2792



## Protanomaly

28.8727, 0.2359, 0.2752



## Deuteranomaly

29.2631, 0.2286, 0.2595



## Tritanomaly

30.7752, 0.2157, 0.2964

# Monochromacy



## Original Color

30.8504, 0.2109, 0.2792



## Achromatopsia

18.4475, 0.3127, 0.3290



## Achromatomaly

21.2514, 0.2467, 0.3075

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8504, 0.2109, 0.2792 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, 165, 195)` looks like.

```
.text, #text, p{  
    color:rgb(0, 165, 195)  
}
```

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, 165, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 165, 195) }
```

## Border

The CSS property to change the border of an element to Yxy 30.8504, 0.2109, 0.2792 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, 165, 195) }
```

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

```
.border{ border-color:rgb(0, 165, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 165, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 165, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 165, 195);  
box-shadow:4px 4px 4px 4px rgb(0, 165,  
195) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.8504, 0.2109, 0.2792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 165, 195) }
```

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

```
.background{ background-color: rgb(0, 165,  
195) }
```

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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