

# Converting Colors

$Y_{xy}(28.8596, 0.1831, 0.2766)$

Have a look what the booklet for  
Yxy(28.8596, 0.1831, 0.2766)  
contains.

<b>Yxy(31.2126, 0.2114, 0.2809)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(31.2126, 0.2114, 0.2809)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A6C3
RGB	0, 166, 195
RGB Percent	0%, 65%, 76%
CMY	0.9982, 0.3490, 0.2353
CMYK	1.00, 0.15, 0.00, 0.24
HSL	189°, 100%, 38%
HSV	189°, 100%, 76%
XYZ	23.4900, 31.2126, 56.4138
YIQ	119.6720, -108.2450, -26.1730

# Conversions

## Conversions Part 2

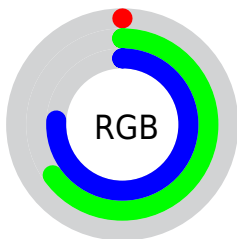
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 90, 195
Decimal	42691
CIELab	62.69, -25.39, -24.97
CIELCh	63, 35.611, 224.517
Yxy	31.2126, 0.2114, 0.2809
Android (android.graphics.Color)	4278232771 (0xFF00A6C3)
YUV	119.6720, 37.1367, -104.9523
Hunter-Lab	55.8682, -22.7184, -20.7612

# Details

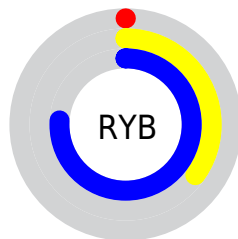
The Yxy color **31.2126, 0.2114, 0.2809** is a dark color, and the websafe version is hex **0099CC**. The color can be described as dark washed azure. A complement of this color would be **12.5039, 0.6259, 0.3409**, and the grayscale version is **18.6221, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.3938, 0.2298, 0.2905**, and **13.9577, 0.2078, 0.2679** is the 20% darker color. If you saturate the color by 10%, you get **31.1861, 0.2113, 0.2808**, and if you desaturate by 10%, it is **32.4278, 0.2145, 0.2861**.

# Distribution



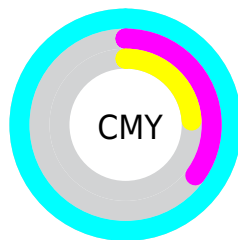
- Red (0%)
- Green (65%)
- Blue (76%)



- 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 31.2126, 0.2114, 0.2809 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 31.2126, 0.2114, 0.2809 by changing the saturation by 10% instead.




 31.2126, 0.2114,  
0.2809


 31.2126, 0.2114,  
0.2809


307.5166, 0.2630,  
0.3078


 20.7608, 0.1985,  
0.2733


 61.5746, 0.2302,  
0.2914

 12.9493, 0.1820,  
0.2630


 82.2537, 0.2373,  
0.2951

 7.3936, 0.1604,  
0.2485

 107.1105, 0.2433,  
0.2982

 3.7095, 0.1314,  
0.2270

 136.5296, 0.2484,  
0.3007

 1.5124, 0.0912,  
0.1929

 170.8954, 0.2528,  
0.3029

 0.2974, 0.0000,  
0.1046

210.5922, 0.2566,

 0.0000, 0.0000,

0.3048

0.0000

256.0045, 0.2600,  
0.3064

■ 31.2126, 0.2114,  
0.2809

■ 31.2126, 0.2114,  
0.2809

■ 31.1861, 0.2113,  
0.2808

■ 32.4278, 0.2145,  
0.2861

■ 33.8127, 0.2190,  
0.2914

■ 35.4179, 0.2255,  
0.2967

■ 37.2699, 0.2339,  
0.3019

■ 39.3910, 0.2441,  
0.3071

■ 41.8008, 0.2558,  
0.3120

■ 44.5172, 0.2689,  
0.3168

■ 47.5562, 0.2830,  
0.3212

■ 50.9330, 0.2978,  
0.3253

# Harmonies

## Analogous

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



31.2126, 0.2291, 0.3325



31.2126, 0.2114, 0.2809



31.2126, 0.2174, 0.2491

# Triad

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



31.2126, 0.2114, 0.2809



31.2126, 0.3522, 0.2775



31.2126, 0.3767, 0.4293

# Complementary

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



31.2126, 0.2114, 0.2809



12.5039, 0.6259, 0.3409

# 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.



31.2126, 0.4153, 0.4022



31.2126, 0.2114, 0.2809



31.2126, 0.4023, 0.3166

# Square

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



31.2126, 0.2114, 0.2809



31.2126, 0.2942, 0.2501



31.2126, 0.4258, 0.3608



31.2126, 0.3229, 0.4273



# Rectangle

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



31.2126, 0.2114, 0.2809



31.2126, 0.2341, 0.2403



31.2126, 0.4258, 0.3608



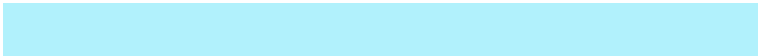
31.2126, 0.3919, 0.4228

# Sweetspot

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



31.2137, 0.2114, 0.2809



79.3758, 0.2679, 0.3164



39.1080, 0.2972, 0.5896



16.9130, 0.2622, 0.3144



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

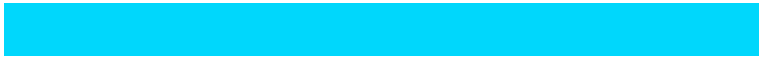


# Same Dimension

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



31.2137, 0.2114, 0.2809



55.5641, 0.2111, 0.2800



8.5501, 0.1658, 0.1166



11.1643, 0.2984, 0.3255



20.3674, 0.2115, 0.2815



0.9511, 0.2148, 0.2931



# Inverse Universe

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



14.3645, 0.3626, 0.1772



25.6764, 0.3635, 0.1776



25.9340, 0.5024, 0.4391



10.2209, 0.3160, 0.3096



9.3383, 0.3621, 0.1768



0.4107, 0.3515, 0.1710



# Previews

## White Background



This preview shows how the Yxy color 31.2126, 0.2114, 0.2809 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

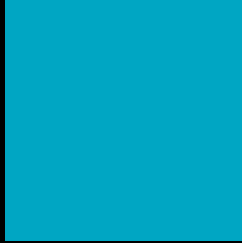
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.2126, 0.2114, 0.2809 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

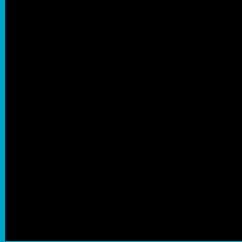
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2126, 0.2114, 0.2809**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2126, 0.2114, 0.2809.

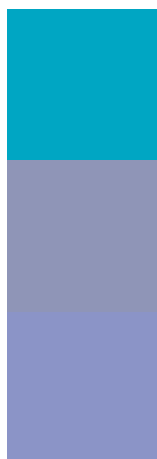


This preview shows how white text looks on a background with the Yxy color 31.2126, 0.2114, 0.2809.

# 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

31.2126, 0.2114, 0.2809

### Protanopia

30.7534, 0.2771, 0.2783

### Deuteranopia

30.7923, 0.2615, 0.2552



## Tritanopia

31.3415, 0.2185, 0.3065

# Trichromacy



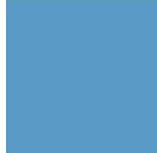
## Original Color

31.2126, 0.2114, 0.2809



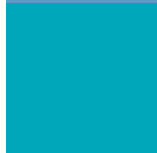
## Protanomaly

29.2547, 0.2368, 0.2770



## Deuteranomaly

29.6438, 0.2295, 0.2613



## Tritanomaly

31.1826, 0.2157, 0.2966

# Monochromacy



## Original Color

31.2126, 0.2114, 0.2809



## Achromatopsia

18.7821, 0.3127, 0.3290



## Achromatomaly

21.5757, 0.2478, 0.3095

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.2126, 0.2114, 0.2809 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, 166, 195)` looks like.

```
.text, #text, p{  
    color:rgb(0, 166, 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, 166, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 166, 195) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2126, 0.2114, 0.2809 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, 166, 195) }
```

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

```
.border{ border-color:rgb(0, 166, 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, 166, 195) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 166, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 166, 195);  
box-shadow:4px 4px 4px 4px rgb(0, 166,  
195) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.2126, 0.2114, 0.2809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 166, 195) }
```

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

```
.background{ background-color: rgb(0, 166,  
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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