

# Converting Colors

$Y_{xy}(31.2966, 0.2011, 0.2440)$

Have a look what the booklet for  
Yxy(31.2966, 0.2011, 0.2440)  
contains.

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# Color

**Yxy(31.2563, 0.2012, 0.2442)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A3DA
RGB	0, 163, 218
RGB Percent	0%, 64%, 85%
CMY	0.9983, 0.3608, 0.1452
CMYK	1.00, 0.25, 0.00, 0.15
HSL	195°, 100%, 43%
HSV	195°, 100%, 85%
XYZ	25.7525, 31.2563, 70.9858
YIQ	120.5330, -114.8030, -17.4510

# Conversions

## Conversions Part 2

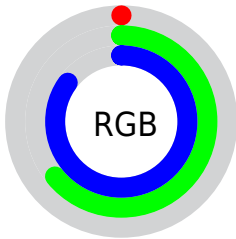
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 93, 218
Decimal	41946
CIELab	62.72, -15.78, -37.69
CIELCh	63, 40.862, 247.278
Yxy	31.2563, 0.2012, 0.2442
Android (android.graphics.Color)	4278232026 (0xFF00A3DA)
YUV	120.5330, 48.0512, -105.7074
Hunter-Lab	55.9073, -15.6156, -36.1457

# Details

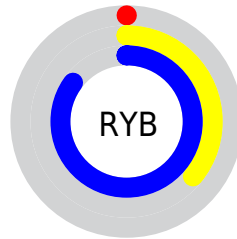
The Yxy color **31.2563, 0.2012, 0.2442** is a dark color, and the websafe version is hex **0099CC**. The color can be described as dark washed azure. A complement of this color would be **17.6725, 0.6084, 0.3549**, and the grayscale version is **18.8744, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.3059, 0.2295, 0.2834**, and **14.0132, 0.1951, 0.2224** is the 20% darker color. If you saturate the color by 10%, you get **31.2164, 0.2011, 0.2440**, and if you desaturate by 10%, it is **33.4266, 0.2054, 0.2535**.

# Distribution



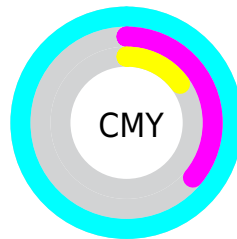
- Red (0%)
- Green (64%)
- Blue (85%)



- Red (0%)
- Yellow (36%)
- Blue (85%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (15%)



- Cyan (100%)
- Magenta (36%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.2563, 0.2012, 0.2442 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 31.2563, 0.2012, 0.2442 by changing the saturation by 10% instead.



31.2563, 0.2012,  
0.2442

31.2563, 0.2012,  
0.2442

307.7174, 0.2573,  
0.2891

20.7941, 0.1876,  
0.2326

61.6434, 0.2214,  
0.2609

12.9736, 0.1704,  
0.2175

82.3370, 0.2291,  
0.2671

7.4104, 0.1485,  
0.1975

107.2099, 0.2356,  
0.2723

3.7200, 0.1201,  
0.1702

136.6465, 0.2411,  
0.2766

1.5182, 0.0833,  
0.1320

171.0311, 0.2460,  
0.2804

0.3015, 0.0000,  
0.0607

210.7482, 0.2502,

0.0000, 0.0000,

0.2837

0.0000

256.1822, 0.2539,  
0.2866

■ 31.2563, 0.2012,  
0.2442

■ 31.2563, 0.2012,  
0.2442

■ 31.2164, 0.2011,  
0.2440

■ 33.4266, 0.2054,  
0.2535

■ 35.8745, 0.2113,  
0.2630

■ 38.6628, 0.2192,  
0.2725

■ 41.8276, 0.2291,  
0.2818

■ 45.3990, 0.2406,  
0.2910

■ 49.4039, 0.2535,  
0.2997

■ 53.8663, 0.2676,  
0.3080

■ 58.8083, 0.2824,  
0.3156

■ 64.2504, 0.2976,  
0.3227

# Harmonies

## Analogous

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



31.2563, 0.2006, 0.2855



31.2563, 0.2012, 0.2442



31.2563, 0.2271, 0.2284

# Triad

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



31.2563, 0.2012, 0.2442



31.2563, 0.4038, 0.3028



31.2563, 0.3387, 0.4472

# Complementary

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



31.2563, 0.2012, 0.2442



17.6725, 0.6084, 0.3549

# 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.



31.2563, 0.3975, 0.4380



31.2563, 0.2012, 0.2442



31.2563, 0.4395, 0.3514

# Square

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



31.2563, 0.2012, 0.2442



31.2563, 0.3414, 0.2619



31.2563, 0.4358, 0.4000



31.2563, 0.2760, 0.4134



# Rectangle

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



31.2563, 0.2012, 0.2442



31.2563, 0.2576, 0.2307



31.2563, 0.4358, 0.4000



31.2563, 0.3596, 0.4485

# Sweetspot

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



31.2574, 0.2012, 0.2442



76.5446, 0.2669, 0.3076



50.4053, 0.2923, 0.5720



15.7894, 0.2609, 0.3041



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

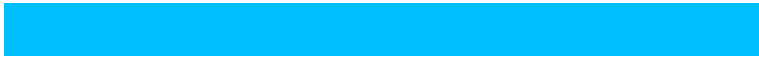


# Same Dimension

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



31.2574, 0.2012, 0.2442



44.2911, 0.2009, 0.2432



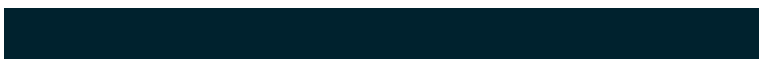
7.7778, 0.1577, 0.0875



14.2433, 0.2982, 0.3230



18.8871, 0.2015, 0.2454



1.3578, 0.2057, 0.2606



# Inverse Universe

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



17.5547, 0.3980, 0.1967



25.0024, 0.3990, 0.1972



41.3050, 0.4722, 0.4632



13.2157, 0.3176, 0.3117



10.5304, 0.3968, 0.1960



0.6958, 0.3818, 0.1877



# Previews

## White Background



This preview shows how the Yxy color 31.2563, 0.2012, 0.2442 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

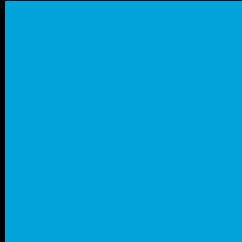
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.2563, 0.2012, 0.2442 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

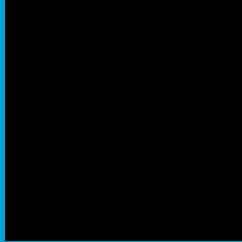
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2563, 0.2012, 0.2442**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2563, 0.2012, 0.2442.



This preview shows how white text looks on a background with the Yxy color 31.2563, 0.2012, 0.2442.

# 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

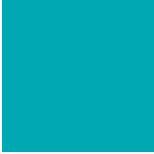
31.2563, 0.2012, 0.2442

### Protanopia

31.0682, 0.2522, 0.2461

### Deuteranopia

31.0981, 0.2347, 0.2292



## **Tritanopia**

31.3006, 0.2189, 0.3081

# Trichromacy



## Original Color

31.2563, 0.2012, 0.2442



## Protanomaly

29.7456, 0.2204, 0.2423



## Deuteranomaly

30.1878, 0.2131, 0.2323



## Tritanomaly

31.1675, 0.2118, 0.2824

# Monochromacy



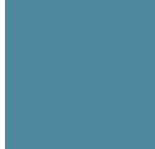
## Original Color

31.2563, 0.2012, 0.2442



## Achromatopsia

19.1202, 0.3127, 0.3290



## Achromatomaly

21.5864, 0.2410, 0.2912

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.2563, 0.2012, 0.2442 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, 163, 218)` looks like.

```
.text, #text, p{  
    color:rgb(0, 163, 218)  
}
```

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, 163, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 163, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2563, 0.2012, 0.2442 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, 163, 218) }
```

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

```
.border{ border-color:rgb(0, 163, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 163, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 163, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 163, 218);  
box-shadow:4px 4px 4px 4px rgb(0, 163,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.2563, 0.2012, 0.2442 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 163, 218) }
```

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

```
.background{ background-color: rgb(0, 163,  
218) }
```

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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