

# Converting Colors

$Y_{xy}(29.3529, 0.1918, 0.2244)$

Have a look what the booklet for  
Yxy(29.3529, 0.1918, 0.2244)  
contains.

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# Color

**Yxy(29.6049, 0.1958, 0.2248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009DE2
RGB	0, 157, 226
RGB Percent	0%, 62%, 89%
CMY	0.9990, 0.3843, 0.1137
CMYK	1.00, 0.31, 0.00, 0.11
HSL	198°, 100%, 44%
HSV	198°, 100%, 89%
XYZ	25.7858, 29.6049, 76.3037
YIQ	117.9230, -115.7210, -11.8250

# Conversions

## Conversions Part 2

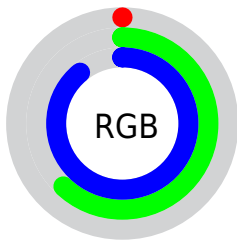
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 93, 226
Decimal	40418
CIE <sub>Lab</sub>	61.31, -9.56, -44.35
CIE <sub>LCh</sub>	61, 45.370, 257.836
Y <sub>xy</sub>	29.6049, 0.1958, 0.2248
Android (android.graphics.Color)	4278230498 (0xFF009DE2)
Y <sub>UV</sub>	117.9230, 53.2820, -103.4185
Hunter-Lab	54.4104, -10.6248, -45.0595

# Details

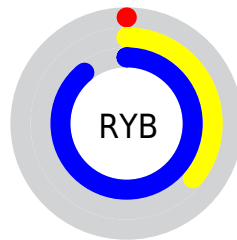
The Yxy color **29.6049, 0.1958, 0.2248** is a dark color, and the websafe version is hex **3399CC**. The color can be described as dark washed azure. A complement of this color would be **20.4559, 0.5967, 0.3643**, and the grayscale version is **17.9733, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.8118, 0.2278, 0.2744**, and **13.2103, 0.1893, 0.2015** is the 20% darker color. If you saturate the color by 10%, you get **29.5782, 0.1958, 0.2247**, and if you desaturate by 10%, it is **32.1885, 0.2006, 0.2363**.

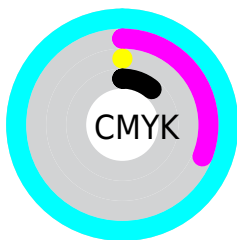
# Distribution



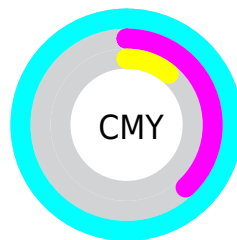
- Red (0%)
- Green (62%)
- Blue (89%)



- Red (0%)
- Yellow (36%)
- Blue (89%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)
- Black (11%)




- Cyan (100%)
- Magenta (38%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.6049, 0.1958, 0.2248 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 29.6049, 0.1958, 0.2248 by changing the saturation by 10% instead.





 29.6049, 0.1958,  
0.2248


 29.6049, 0.1958,  
0.2248


300.0584, 0.2547,  
0.2789


 19.5389, 0.1816,  
0.2112


 59.0368, 0.2170,  
0.2446

 12.0603, 0.1638,  
0.1940


 79.1715, 0.2250,  
0.2521


 6.7848, 0.1412,  
0.1716


 103.4311, 0.2319,  
0.2583

 3.3279, 0.1123,  
0.1420

 132.2002, 0.2377,  
0.2637

 1.3052, 0.0759,  
0.1030

 165.8631, 0.2428,  
0.2683

 0.1452, 0.0000,  
0.0255

204.8041, 0.2473,

 0.0000, 0.0000,

0.2723

0.0000

249.4078, 0.2512,  
0.2758

■ 29.6049, 0.1958,  
0.2248

■ 29.6049, 0.1958,  
0.2248

■ 29.5782, 0.1958,  
0.2247

■ 32.1885, 0.2006,  
0.2363

■ 35.1144, 0.2072,  
0.2479

■ 38.4515, 0.2159,  
0.2596

■ 42.2400, 0.2265,  
0.2712

■ 46.5140, 0.2387,  
0.2824

■ 51.3038, 0.2523,  
0.2932

■ 56.6364, 0.2669,  
0.3033

■ 62.5369, 0.2820,  
0.3127

■ 69.0284, 0.2975,  
0.3213

# Harmonies

## Analogous

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



29.6049, 0.1851, 0.2597



29.6049, 0.1958, 0.2248



29.6049, 0.2335, 0.2173

# Triad

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



29.6049, 0.1958, 0.2248



29.6049, 0.4346, 0.3172



29.6049, 0.3153, 0.4564

# Complementary

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



29.6049, 0.1958, 0.2248



20.4559, 0.5967, 0.3643

# 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.



29.6049, 0.3850, 0.4602



29.6049, 0.1958, 0.2248



29.6049, 0.4592, 0.3716

# Square

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



29.6049, 0.1958, 0.2248



29.6049, 0.3714, 0.2686



29.6049, 0.4388, 0.4241



29.6049, 0.2487, 0.4016



# Rectangle

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



29.6049, 0.1958, 0.2248



29.6049, 0.2727, 0.2256



29.6049, 0.4388, 0.4241



29.6049, 0.3392, 0.4635

# Sweetspot

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



29.6059, 0.1958, 0.2248



74.2426, 0.2664, 0.3030



54.8096, 0.2893, 0.5615



15.2369, 0.2601, 0.2988



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

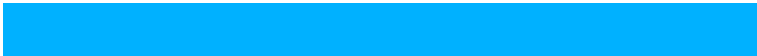


# Same Dimension

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



29.6059, 0.1958, 0.2248



38.6880, 0.1955, 0.2239



7.3999, 0.1551, 0.0782



14.8283, 0.2982, 0.3217



17.0938, 0.1963, 0.2265



1.3408, 0.2012, 0.2442



# Inverse Universe

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



18.6080, 0.4181, 0.2077



24.4367, 0.4190, 0.2082



49.1546, 0.4602, 0.4727



13.8605, 0.3184, 0.3129



10.6337, 0.4163, 0.2067



0.7528, 0.3981, 0.1967



# Previews

## White Background



This preview shows how the Yxy color 29.6049, 0.1958, 0.2248 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 29.6049, 0.1958, 0.2248 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

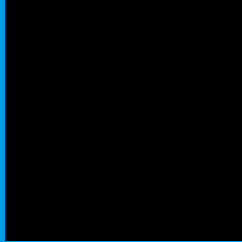
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.6049, 0.1958, 0.2248**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.6049, 0.1958, 0.2248.

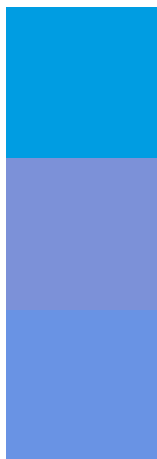


This preview shows how white text looks on a background with the Yxy color 29.6049, 0.1958, 0.2248.

# 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

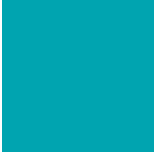
29.6049, 0.1958, 0.2248

### Protanopia

29.4938, 0.2383, 0.2280

### Deuteranopia

29.4721, 0.2205, 0.2148



## Tritanopia

29.6855, 0.2188, 0.3077

# Trichromacy



## Original Color

29.6049, 0.1958, 0.2248



## Protanomaly

28.3245, 0.2118, 0.2231



## Deuteranomaly

28.8726, 0.2050, 0.2172



## Tritanomaly

29.3848, 0.2093, 0.2736

# Monochromacy



## Original Color

29.6049, 0.1958, 0.2248



## Achromatopsia

18.1164, 0.3127, 0.3290



## Achromatomaly

20.4327, 0.2374, 0.2814

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.6049, 0.1958, 0.2248 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, 157, 226)` looks like.

```
.text, #text, p{  
    color:rgb(0, 157, 226)  
}
```

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, 157, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 157, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 29.6049, 0.1958, 0.2248 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, 157, 226) }
```

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

```
.border{ border-color:rgb(0, 157, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 157, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 157, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 157, 226);  
box-shadow:4px 4px 4px 4px rgb(0, 157,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.6049, 0.1958, 0.2248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 157, 226) }
```

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

```
.background{ background-color: rgb(0, 157,  
226) }
```

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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