

Converting Colors

$Y_{xy}(24.4033, 0.0917, 0.2170)$

Have a look what the booklet for
Yxy(24.4033, 0.0917, 0.2170)
contains.

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Color

Yxy(33.6067, 0.2000, 0.2400)

Conversions

Conversions Part 1

Format	Color
Hex	00A8E4
RGB	0, 168, 228
RGB Percent	0%, 66%, 89%
CMY	1.0000, 0.3412, 0.1058
CMYK	1.00, 0.26, 0.00, 0.11
HSL	196°, 100%, 45%
HSV	196°, 100%, 89%
XYZ	28.0056, 33.6067, 78.4156
YIQ	124.6080, -119.3880, -16.9560

Conversions

Conversions Part 2

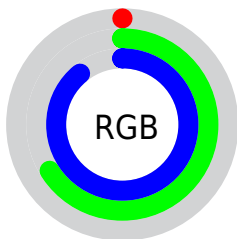
Format	Color
RYB	0, 97, 228
Decimal	43236
CIELab	64.65, -14.91, -40.22
CIELCh	65, 42.896, 249.659
Yxy	33.6067, 0.2000, 0.2400
Android (android.graphics.Color)	4278233316 (0xFF00A8E4)
YUV	124.6080, 50.9723, -109.2812
Hunter-Lab	57.9713, -15.2175, -39.6195

Details

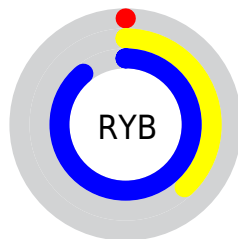
The Yxy color **33.6067, 0.2000, 0.2400** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle washed azure. A complement of this color would be **19.7279, 0.6070, 0.3562**, and the grayscale version is **20.2269, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.0595, 0.2316, 0.2898**, and **15.4693, 0.1943, 0.2196** is the 20% darker color. If you saturate the color by 10%, you get **33.6085, 0.2000, 0.2400**, and if you desaturate by 10%, it is **36.0555, 0.2043, 0.2498**.

Distribution



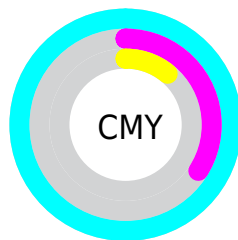
- Red (0%)
- Green (66%)
- Blue (89%)



- Red (0%)
- Yellow (38%)
- Blue (89%)



- Cyan (100%)
- Magenta (26%)
- Yellow (0%)
- Black (11%)



- Cyan (100%)
- Magenta (34%)
- Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.6067, 0.2000, 0.2400 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 33.6067, 0.2000, 0.2400 by changing the saturation by 10% instead.


 33.6067, 0.2000,
0.2400


 33.6067, 0.2000,
0.2400


318.3748, 0.2559,
0.2863

 22.5916, 0.1866,
0.2283


 65.3216, 0.2200,
0.2570


 14.2923, 0.1700,
0.2133


 86.7902, 0.2276,
0.2634

 8.3242, 0.1489,
0.1937

 112.5121, 0.2341,
0.2687

 4.3031, 0.1219,
0.1674

 142.8717, 0.2396,
0.2733

 1.8445, 0.0872,
0.1314

 178.2533, 0.2445,
0.2772

 0.5147, 0.0190,
0.0783

219.0415, 0.2488,

 0.0000, 0.0000,

0.2806

0.0000

265.6205, 0.2525,
0.2836

■ 33.6067, 0.2000,
0.2400

■ 33.6067, 0.2000,
0.2400

■ 33.6085, 0.2000,
0.2400

■ 36.0555, 0.2043,
0.2498

■ 38.8180, 0.2103,
0.2597

■ 41.9655, 0.2183,
0.2696

■ 45.5383, 0.2282,
0.2794

■ 49.5708, 0.2399,
0.2890

■ 54.0930, 0.2529,
0.2982

■ 59.1320, 0.2671,
0.3068

■ 64.7127, 0.2820,
0.3149

■ 70.8580, 0.2973,
0.3223

Harmonies

Analogous

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



33.6067, 0.1973, 0.2800



33.6067, 0.2000, 0.2400



33.6067, 0.2284, 0.2260

Triad

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



33.6067, 0.2000, 0.2400



33.6067, 0.4102, 0.3058



33.6067, 0.3339, 0.4493

Complementary

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



33.6067, 0.2000, 0.2400



19.7279, 0.6070, 0.3562

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.



33.6067, 0.3951, 0.4426



33.6067, 0.2000, 0.2400



33.6067, 0.4438, 0.3556

Square

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



33.6067, 0.2000, 0.2400



33.6067, 0.3476, 0.2633



33.6067, 0.4366, 0.4050



33.6067, 0.2703, 0.4112

Rectangle

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



33.6067, 0.2000, 0.2400



33.6067, 0.2607, 0.2296



33.6067, 0.4366, 0.4050



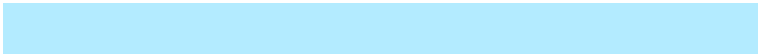
33.6067, 0.3554, 0.4517

Sweetspot

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



33.6085, 0.2000, 0.2400



76.0849, 0.2668, 0.3067



55.7874, 0.2924, 0.5727



15.6789, 0.2607, 0.3031



0.0000, 0.0000, 0.0000



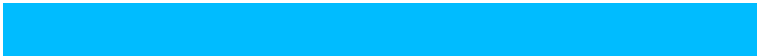
21.4041, 0.3127, 0.3290

Same Dimension

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



33.6085, 0.2000, 0.2400



43.1399, 0.1998, 0.2394



8.5284, 0.1575, 0.0868



15.6608, 0.2981, 0.3227



19.6081, 0.2004, 0.2415



1.5984, 0.2044, 0.2558

Inverse Universe

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



19.3228, 0.4023, 0.1990



24.8861, 0.4029, 0.1993



45.6240, 0.4725, 0.4630



14.5471, 0.3178, 0.3118



11.1772, 0.4008, 0.1981



0.8410, 0.3865, 0.1903

Previews

White Background



This preview shows how the Yxy color 33.6067, 0.2000, 0.2400 looks on a white background.

Color Contrast Check

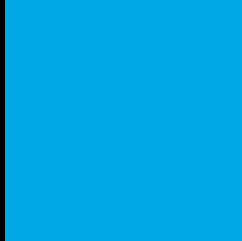
Large Text (above 18pt) WCAG AA × Fail

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 33.6067, 0.2000, 0.2400 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

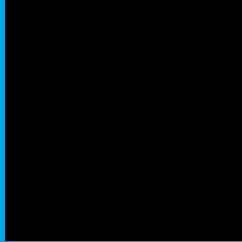
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 33.6067, 0.2000, 0.2400

Background



This preview shows how black text looks on a background with the Yxy color 33.6067, 0.2000, 0.2400.



This preview shows how white text looks on a background with the Yxy color 33.6067, 0.2000, 0.2400.

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

33.6067, 0.2000, 0.2400

Protanopia

33.3874, 0.2497, 0.2432

Deuteranopia

33.4232, 0.2319, 0.2259



Tritanopia

33.4323, 0.2186, 0.3070

Trichromacy



Original Color

33.6067, 0.2000, 0.2400



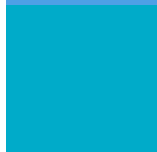
Protanomaly

31.9898, 0.2189, 0.2395



Deuteranomaly

32.4745, 0.2112, 0.2287



Tritanomaly

33.3429, 0.2113, 0.2806

Monochromacy



Original Color

33.6067, 0.2000, 0.2400



Achromatopsia

20.5079, 0.3127, 0.3290



Achromatomaly

23.3639, 0.2408, 0.2906

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.6067, 0.2000, 0.2400 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, 168, 228)` looks like.

```
.text, #text, p{  
    color:rgb(0, 168, 228)  
}
```

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, 168, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 168, 228) }
```

Border

The CSS property to change the border of an element to Yxy 33.6067, 0.2000, 0.2400 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, 168, 228) }
```

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

```
.border{ border-color:rgb(0, 168, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 168, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 168, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 168, 228); box-shadow:4px 4px 4px 4px rgb(0, 168, 228) }
```


Background

The CSS property to change the background color of an element to Yxy 33.6067, 0.2000, 0.2400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 168, 228) }
```

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

```
.background{ background-color: rgb(0, 168,  
228) }
```

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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