

Converting Colors

$Y_{xy}(36.7882, 0.2020, 0.2473)$

Have a look what the booklet for
Yxy(36.7882, 0.2020, 0.2473)
contains.

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Color

Yxy(36.8769, 0.2022, 0.2478)

Conversions

Conversions Part 1

Format	Color
Hex	00B0E8
RGB	0, 176, 232
RGB Percent	0%, 69%, 91%
CMY	0.9981, 0.3098, 0.0903
CMYK	1.00, 0.24, 0.00, 0.09
HSL	195°, 100%, 46%
HSV	195°, 100%, 91%
XYZ	30.0908, 36.8769, 81.8495
YIQ	129.7600, -122.8720, -19.8960

Conversions

Conversions Part 2

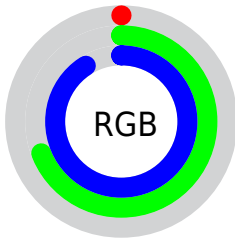
Format	Color
RYB	0, 100, 232
Decimal	45288
CIELab	67.18, -17.78, -38.43
CIELCh	67, 42.342, 245.173
Yxy	36.8769, 0.2022, 0.2478
Android (android.graphics.Color)	4278235368 (0xFF00B0E8)
YUV	129.7600, 50.4043, -113.7995
Hunter-Lab	60.7264, -17.8216, -37.4050

Details

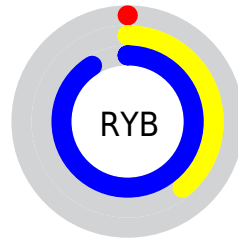
The Yxy color **36.8769, 0.2022, 0.2478** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle washed azure. A complement of this color would be **20.0244, 0.6112, 0.3527**, and the grayscale version is **22.1391, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.1214, 0.2347, 0.3012**, and **17.3005, 0.1967, 0.2281** is the 20% darker color. If you saturate the color by 10%, you get **36.8279, 0.2021, 0.2476**, and if you desaturate by 10%, it is **39.3105, 0.2062, 0.2567**.

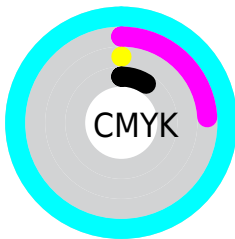
Distribution



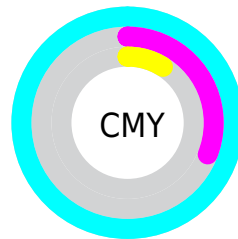
- Red (0%)
- Green (69%)
- Blue (91%)



- Red (0%)
- Yellow (39%)
- Blue (91%)



- Cyan (100%)
- Magenta (24%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (31%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8769, 0.2022, 0.2478 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 36.8769, 0.2022, 0.2478 by changing the saturation by 10% instead.

■ 36.8769, 0.2022,
0.2478

■ 36.8769, 0.2022,
0.2478

■ 332.7773, 0.2563,
0.2899

■ 25.1122, 0.1894,
0.2372

■ 70.3834, 0.2214,
0.2632

■ 16.1607, 0.1736,
0.2236

■ 92.8940, 0.2287,
0.2690

■ 9.6379, 0.1536,
0.2059

■ 119.7554, 0.2350,
0.2739

■ 5.1596, 0.1279,
0.1819

■ 151.3519, 0.2404,
0.2780

■ 2.3412, 0.0949,
0.1487

■ 188.0679, 0.2452,
0.2816

■ 0.7954, 0.0419,
0.1036

230.2879, 0.2493,

■ 0.0000, 0.0000,

0.2847

0.0000

278.3962, 0.2530,
0.2874

■ 36.8769, 0.2022,
0.2478

■ 36.8769, 0.2022,
0.2478

■ 36.8279, 0.2021,
0.2476

■ 39.3105, 0.2062,
0.2567

■ 42.0588, 0.2119,
0.2657

■ 45.1924, 0.2197,
0.2748

■ 48.7531, 0.2293,
0.2838

■ 52.7762, 0.2407,
0.2925

■ 57.2927, 0.2536,
0.3009

■ 62.3305, 0.2676,
0.3088

■ 67.9153, 0.2824,
0.3162

■ 74.0706, 0.2976,
0.3230

Harmonies

Analogous

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



36.8769, 0.2035, 0.2903



36.8769, 0.2022, 0.2478



36.8769, 0.2260, 0.2304

Triad

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



36.8769, 0.2022, 0.2478



36.8769, 0.3983, 0.3002



36.8769, 0.3427, 0.4455

Complementary

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



36.8769, 0.2022, 0.2478



20.0244, 0.6112, 0.3527

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.



36.8769, 0.3996, 0.4341



36.8769, 0.2022, 0.2478



36.8769, 0.4358, 0.3478

Square

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



36.8769, 0.2022, 0.2478



36.8769, 0.3363, 0.2607



36.8769, 0.4350, 0.3959



36.8769, 0.2809, 0.4152

Rectangle

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



36.8769, 0.2022, 0.2478



36.8769, 0.2551, 0.2317



36.8769, 0.4350, 0.3959



36.8769, 0.3631, 0.4459

Sweetspot

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



36.8781, 0.2022, 0.2478



77.0256, 0.2670, 0.3085



57.9681, 0.2933, 0.5757



15.9050, 0.2610, 0.3052



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.



36.8781, 0.2022, 0.2478



45.5128, 0.2020, 0.2472



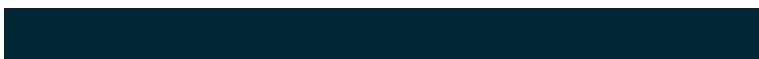
9.2968, 0.1585, 0.0904



15.7149, 0.2981, 0.3232



20.6579, 0.2025, 0.2491



1.6684, 0.2061, 0.2621

Inverse Universe

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



20.2954, 0.3944, 0.1947



25.1257, 0.3951, 0.1950



45.9907, 0.4766, 0.4596



14.5525, 0.3175, 0.3114



11.2831, 0.3932, 0.1939



0.8481, 0.3804, 0.1869

Previews

White Background



This preview shows how the Yxy color 36.8769, 0.2022, 0.2478 looks on a white background.

Color Contrast Check

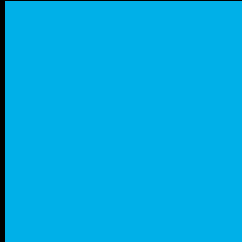
Large Text (above 18pt) WCAG AA × Fail

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 36.8769, 0.2022, 0.2478 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

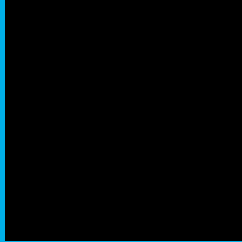
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

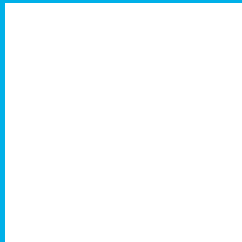
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 36.8769, 0.2022, 0.2478

Background



This preview shows how black text looks on a background with the Yxy color 36.8769, 0.2022, 0.2478.



This preview shows how white text looks on a background with the Yxy color 36.8769, 0.2022, 0.2478.

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

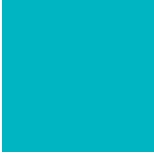
36.8769, 0.2022, 0.2478

Protanopia

36.3287, 0.2541, 0.2484

Deuteranopia

36.4744, 0.2375, 0.2315



Tritanopia

36.9428, 0.2189, 0.3079

Trichromacy



Original Color

36.8769, 0.2022, 0.2478



Protanomaly

34.9296, 0.2218, 0.2459



Deuteranomaly

35.1442, 0.2145, 0.2338



Tritanomaly

36.7943, 0.2122, 0.2838

Monochromacy



Original Color

36.8769, 0.2022, 0.2478



Achromatopsia

22.3228, 0.3127, 0.3290



Achromatomaly

25.4965, 0.2415, 0.2936

CSS Examples

Text

The CSS property to change the color of the text to Yxy 36.8769, 0.2022, 0.2478 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, 176, 232)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 232)  
}
```

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, 176, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 232) }
```

Border

The CSS property to change the border of an element to Yxy 36.8769, 0.2022, 0.2478 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, 176, 232) }
```

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

```
.border{ border-color:rgb(0, 176, 232) }
```

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

Here you see how a box with a 4 pixel rgb(0, 176, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 232);  
box-shadow:4px 4px 4px 4px rgb(0, 176,  
232) }
```


Background

The CSS property to change the background color of an element to Yxy 36.8769, 0.2022, 0.2478 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 232) }
```

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

```
.background{ background-color: rgb(0, 176,  
232) }
```

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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