

Converting Colors

$Y_{xy}(17.8772, 0.1068, 0.2568)$

Have a look what the booklet for
Yxy(17.8772, 0.1068, 0.2568)
contains.

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Color

Yxy(23.3854, 0.2089, 0.2720)

Conversions

Conversions Part 1

Format	Color
Hex	0091B0
RGB	0, 145, 176
RGB Percent	0%, 57%, 69%
CMY	0.9998, 0.4314, 0.3099
CMYK	1.00, 0.18, 0.00, 0.31
HSL	191°, 100%, 35%
HSV	191°, 100%, 69%
XYZ	17.9603, 23.3854, 44.6300
YIQ	105.1790, -96.3710, -21.0990

Conversions

Conversions Part 2

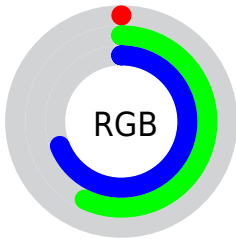
Format	Color
RYB	0, 80, 176
Decimal	37296
CIELab	55.47, -21.13, -25.35
CIELCh	55, 32.997, 230.188
Yxy	23.3854, 0.2089, 0.2720
Android (android.graphics.Color)	4278227376 (0xFF0091B0)
YUV	105.1790, 34.9148, -92.2420
Hunter-Lab	48.3585, -18.3324, -20.8678

Details

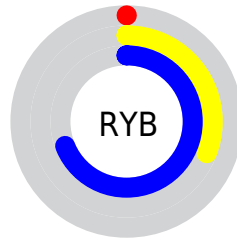
The Yxy color **23.3854, 0.2089, 0.2720** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **10.2093, 0.6212, 0.3449**, and the grayscale version is **14.1055, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.0002, 0.2294, 0.2845**, and **9.4355, 0.2038, 0.2538** is the 20% darker color. If you saturate the color by 10%, you get **23.3829, 0.2089, 0.2720**, and if you desaturate by 10%, it is **24.4711, 0.2124, 0.2782**.

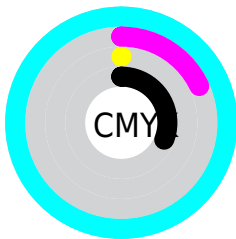
Distribution



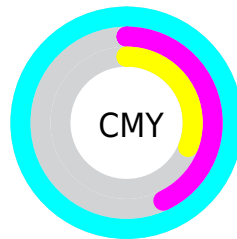
- Red (0%)
- Green (57%)
- Blue (69%)



- Red (0%)
- Yellow (31%)
- Blue (69%)



- Cyan (100%)
- Magenta (18%)
- Yellow (0%)
- Black (31%)



- Cyan (100%)
- Magenta (43%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 23.3854, 0.2089, 0.2720 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 23.3854, 0.2089, 0.2720 by changing the saturation by 10% instead.


 23.3854, 0.2089,
0.2720


 23.3854, 0.2089,
0.2720

 269.6984, 0.2641,
0.3048

 14.8783, 0.1943,
0.2623


 49.0254, 0.2296,
0.2850


 8.7340, 0.1752,
0.2489


 66.9271, 0.2372,
0.2896


 4.5681, 0.1496,
0.2295

 88.7292, 0.2436,
0.2933


 1.9962, 0.1141,
0.1996

 114.8159, 0.2490,
0.2964

 0.6052, 0.0150,
0.1526

 145.5719, 0.2536,
0.2990

 0.0000, 0.0000,
0.0000

 181.3813, 0.2576,

0.3012

222.6287, 0.2611,
0.3031

■ 23.3854, 0.2089,
0.2720

■ 23.3854, 0.2089,
0.2720

■ 23.3829, 0.2089,
0.2720

■ 24.4711, 0.2124,
0.2782

■ 25.6935, 0.2174,
0.2845

■ 27.0968, 0.2243,
0.2908

■ 28.7014, 0.2330,
0.2970

■ 30.5247, 0.2435,
0.3031

■ 32.5822, 0.2555,
0.3090

■ 34.8877, 0.2687,
0.3145

■ 37.4537, 0.2828,
0.3198

■ 40.2922, 0.2976,
0.3246

Harmonies

Analogous

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



23.3854, 0.2223, 0.3214



23.3854, 0.2089, 0.2720



23.3854, 0.2195, 0.2440

Triad

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



23.3854, 0.2089, 0.2720



23.3854, 0.3639, 0.2834



23.3854, 0.3682, 0.4337

Complementary

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



23.3854, 0.2089, 0.2720



10.2093, 0.6212, 0.3449

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.



23.3854, 0.4116, 0.4102



23.3854, 0.2089, 0.2720



23.3854, 0.4112, 0.3246

Square

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



23.3854, 0.2089, 0.2720



23.3854, 0.3046, 0.2528



23.3854, 0.4287, 0.3696



23.3854, 0.3121, 0.4248

Rectangle

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



23.3854, 0.2089, 0.2720



23.3854, 0.2393, 0.2380



23.3854, 0.4287, 0.3696



23.3854, 0.3848, 0.4288

Sweetspot

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



23.3862, 0.2089, 0.2720



63.0465, 0.2679, 0.3142



31.1333, 0.2958, 0.5847



13.2808, 0.2624, 0.3120



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



23.3862, 0.2089, 0.2720



42.1201, 0.2086, 0.2709



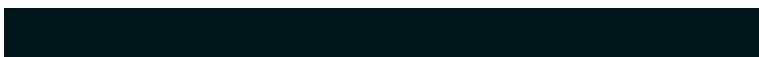
6.2309, 0.1635, 0.1086



9.3719, 0.2986, 0.3249



17.2374, 0.2091, 0.2726



0.6091, 0.2139, 0.2900

Inverse Universe

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



11.2733, 0.3709, 0.1817



20.4185, 0.3719, 0.1823



22.0292, 0.4929, 0.4468



8.6205, 0.3163, 0.3104



8.2803, 0.3703, 0.1814



0.2673, 0.3544, 0.1726

Previews

White Background



This preview shows how the Yxy color 23.3854, 0.2089, 0.2720 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 23.3854, 0.2089, 0.2720 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

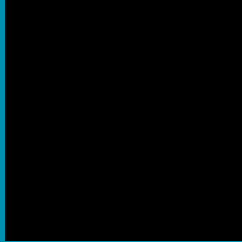
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 23.3854, 0.2089, 0.2720

Background



This preview shows how black text looks on a background with the Yxy color 23.3854, 0.2089, 0.2720.

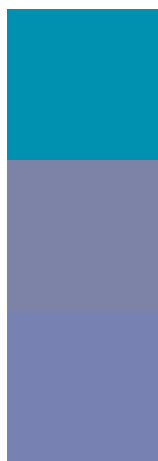


This preview shows how white text looks on a background with the Yxy color 23.3854, 0.2089, 0.2720.

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

23.3854, 0.2089, 0.2720

Protanopia

23.2709, 0.2713, 0.2708

Deuteranopia

23.1419, 0.2559, 0.2496



Tritanopia

23.3706, 0.2182, 0.3055

Trichromacy



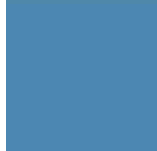
Original Color

23.3854, 0.2089, 0.2720



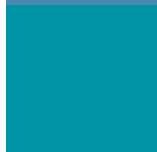
Protanomaly

22.1729, 0.2330, 0.2679



Deuteranomaly

22.0788, 0.2259, 0.2535



Tritanomaly

23.2744, 0.2146, 0.2926

Monochromacy



Original Color

23.3854, 0.2089, 0.2720



Achromatopsia

14.1263, 0.3127, 0.3290



Achromatomaly

16.2649, 0.2462, 0.3051

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.3854, 0.2089, 0.2720 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, 145, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 145, 176)  
}
```

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, 145, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 145, 176) }
```

Border

The CSS property to change the border of an element to Yxy 23.3854, 0.2089, 0.2720 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, 145, 176) }
```

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

```
.border{ border-color:rgb(0, 145, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 145, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 145, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 145, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 145,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 23.3854, 0.2089, 0.2720 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 145, 176) }
```

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

```
.background{ background-color: rgb(0, 145,  
176) }
```

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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