

Converting Colors

$Y_{xy}(23.8786, 0.2221, 0.2816)$

Have a look what the booklet for
Yxy(23.8786, 0.2221, 0.2816)
contains.

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Color

Yxy(23.8949, 0.2220, 0.2815)

Conversions

Conversions Part 1

Format	Color
Hex	3391AB
RGB	51, 145, 171
RGB Percent	20%, 57%, 67%
CMY	0.7996, 0.4314, 0.3294
CMYK	0.70, 0.15, 0.00, 0.33
HSL	193°, 54%, 44%
HSV	193°, 70%, 67%
XYZ	18.8443, 23.8949, 42.1450
YIQ	119.8580, -64.3700, -11.8420

Conversions

Conversions Part 2

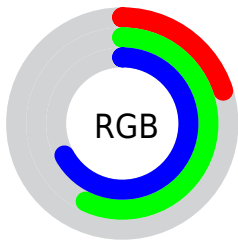
Format	Color
RYB	51, 104, 171
Decimal	3379627
CIELab	55.98, -18.72, -21.65
CIElCh	56, 28.617, 229.154
Yxy	23.8949, 0.2220, 0.2815
Android (android.graphics.Color)	4281569707 (0xFF3391AB)
YUV	119.8580, 25.2130, -60.3885
Hunter-Lab	48.8824, -16.7320, -16.9004

Details

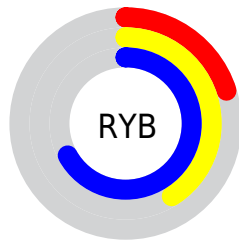
The Yxy color **23.8949, 0.2220, 0.2815** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **14.2187, 0.5129, 0.3636**, and the grayscale version is **18.6764, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.8485, 0.2406, 0.2928**, and **9.3373, 0.2063, 0.2627** is the 20% darker color. If you saturate the color by 10%, you get **22.4147, 0.2146, 0.2736**, and if you desaturate by 10%, it is **25.5773, 0.2313, 0.2893**.

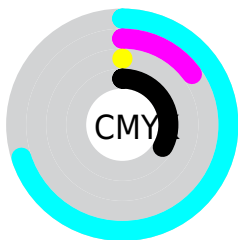
Distribution



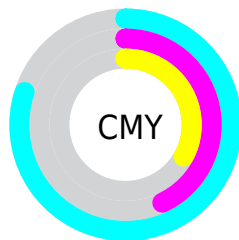
- Red (20%)
- Green (57%)
- Blue (67%)



- Red (20%)
- Yellow (41%)
- Blue (67%)



- Cyan (70%)
- Magenta (15%)
- Yellow (0%)
- Black (33%)



- Cyan (80%)
- Magenta (43%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 23.8949, 0.2220, 0.2815 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 23.8949, 0.2220, 0.2815 by changing the saturation by 10% instead.

■ 23.8949, 0.2220,
0.2815

■ 23.8949, 0.2220,
0.2815

272.2887, 0.2705,
0.3088

■ 15.2557, 0.2090,
0.2734

■ 49.8586, 0.2404,
0.2924

■ 8.9990, 0.1918,
0.2621

■ 67.9519, 0.2470,
0.2961

■ 4.7405, 0.1682,
0.2456

■ 89.9654, 0.2526,
0.2992

■ 2.0958, 0.1347,
0.2196

■ 116.2834, 0.2573,
0.3018

■ 0.6623, 0.0465,
0.1786

■ 147.2903, 0.2613,
0.3040

■ 0.0000, 0.0000,
0.0000

183.3706, 0.2648,

0.3058

224.9086, 0.2679,
0.3074

■ 23.8949, 0.2220,
0.2815

■ 23.8949, 0.2220,
0.2815

■ 22.4147, 0.2146,
0.2736

■ 25.5773, 0.2313,
0.2893

■ 21.1147, 0.2090,
0.2658

■ 27.4756, 0.2423,
0.2969

■ 19.9669, 0.2050,
0.2581

■ 29.6052, 0.2546,
0.3042

■ 31.9791, 0.2682,
0.3111

■ 34.6094, 0.2825,
0.3176

■ 37.5071, 0.2974,
0.3235

■ 40.6827, 0.3125,
0.3289

■ 44.1459, 0.3276,
0.3338

■ 47.9059, 0.3425,
0.3382

Harmonies

Analogous

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



23.8949, 0.2349, 0.3249



23.8949, 0.2220, 0.2815



23.8949, 0.2306, 0.2557

Triad

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



23.8949, 0.2220, 0.2815



23.8949, 0.3553, 0.2882



23.8949, 0.3630, 0.4188

Complementary

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



23.8949, 0.2220, 0.2815



14.2187, 0.5129, 0.3636

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.



23.8949, 0.3996, 0.3992



23.8949, 0.2220, 0.2815



23.8949, 0.3963, 0.3246

Square

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



23.8949, 0.2220, 0.2815



23.8949, 0.3044, 0.2616



23.8949, 0.4127, 0.3642



23.8949, 0.3146, 0.4112

Rectangle

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



23.8949, 0.2220, 0.2815



23.8949, 0.2478, 0.2495



23.8949, 0.4127, 0.3642



23.8949, 0.3771, 0.4148

Sweetspot

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



23.8958, 0.2220, 0.2815



61.3707, 0.2807, 0.3168



30.3677, 0.2897, 0.5093



13.3983, 0.2768, 0.3151



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



23.8958, 0.2220, 0.2815



38.8581, 0.2114, 0.2694



10.1540, 0.1932, 0.1638



8.7729, 0.2986, 0.3240



15.1320, 0.2052, 0.2588



0.4934, 0.2118, 0.2824

Inverse Universe

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



13.0777, 0.3593, 0.2035



20.0916, 0.3724, 0.1915



26.7957, 0.4386, 0.4461



8.1179, 0.3169, 0.3114



7.8306, 0.3835, 0.1887



0.2252, 0.3612, 0.1764

Previews

White Background



This preview shows how the Yxy color 23.8949, 0.2220, 0.2815 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 23.8949, 0.2220, 0.2815 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

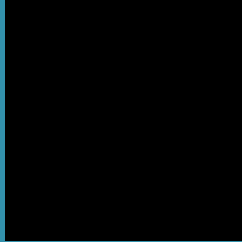
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 23.8949, 0.2220, 0.2815

Background



This preview shows how black text looks on a background with the Yxy color 23.8949, 0.2220, 0.2815.

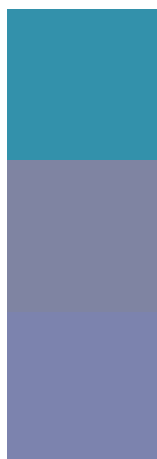


This preview shows how white text looks on a background with the Yxy color 23.8949, 0.2220, 0.2815.

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

23.8949, 0.2220, 0.2815

Protanopia

23.6232, 0.2779, 0.2791

Deuteranopia

23.5737, 0.2646, 0.2591



Tritanopia

23.8842, 0.2266, 0.3060

Trichromacy



Original Color

23.8949, 0.2220, 0.2815

Protanomaly

23.2606, 0.2512, 0.2798

Deuteranomaly

23.1668, 0.2436, 0.2653

Tritanomaly

23.7830, 0.2250, 0.2970

Monochromacy



Original Color

23.8949, 0.2220, 0.2815

Achromatopsia

18.7821, 0.3127, 0.3290

Achromatomaly

19.9975, 0.2667, 0.3095

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.8949, 0.2220, 0.2815 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(51, 145, 171)` looks like.

```
.text, #text, p{  
    color:rgb(51, 145, 171)  
}
```

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(51, 145, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 145, 171) }
```

Border

The CSS property to change the border of an element to Yxy 23.8949, 0.2220, 0.2815 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(51, 145, 171) }
```

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

```
.border{ border-color:rgb(51, 145, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 145, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 145, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 145, 171);  
box-shadow:4px 4px 4px 4px rgb(51, 145,  
171) }
```


Background

The CSS property to change the background color of an element to Yxy 23.8949, 0.2220, 0.2815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 145, 171) }
```

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

```
.background{ background-color: rgb(51, 145,  
171) }
```

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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