

Converting Colors

$Y_{xy}(46.7123, 0.2210, 0.3161)$

Have a look what the booklet for
Yxy(46.7123, 0.2210, 0.3161)
contains.

Yxy(46.8942, 0.2214, 0.3170)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(46.8942, 0.2214, 0.3170)

Conversions

Conversions Part 1

Format	Color
Hex	00CAD2
RGB	0, 202, 210
RGB Percent	0%, 79%, 82%
CMY	0.9996, 0.2078, 0.1765
CMYK	1.00, 0.04, 0.00, 0.18
HSL	182°, 100%, 41%
HSV	182°, 100%, 82%
XYZ	32.7520, 46.8942, 68.2851
YIQ	142.5140, -122.9600, -40.3360

Conversions

Conversions Part 2

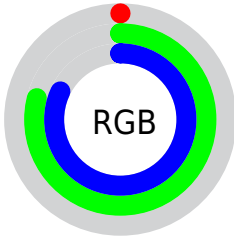
Format	Color
RYB	0, 103, 210
Decimal	51922
CIELab	74.12, -37.92, -15.81
CIELCh	74, 41.082, 202.634
Yxy	46.8942, 0.2214, 0.3170
Android (android.graphics.Color)	4278242002 (0xFF00CAD2)
YUV	142.5140, 33.2706, -124.9848
Hunter-Lab	68.4793, -34.4667, -11.1862

Details

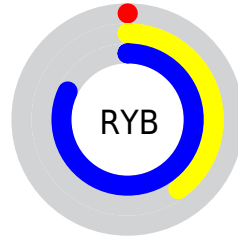
The Yxy color **46.8942, 0.2214, 0.3170** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.8747, 0.6376, 0.3318**, and the grayscale version is **27.1804, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8658, 0.2405, 0.3288**, and **23.2677, 0.2198, 0.3112** is the 20% darker color. If you saturate the color by 10%, you get **46.8932, 0.2214, 0.3170**, and if you desaturate by 10%, it is **47.4314, 0.2231, 0.3182**.

Distribution



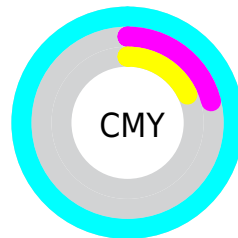
- Red (0%)
- Green (79%)
- Blue (82%)



- Red (0%)
- Yellow (40%)
- Blue (82%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (18%)





- Cyan (100%)
- Magenta (21%)
- Yellow (18%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 46.8942, 0.2214, 0.3170 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 46.8942, 0.2214, 0.3170 by changing the saturation by 10% instead.


 46.8942, 0.2214,
0.3170

 46.8942, 0.2214,
0.3170


 374.3921, 0.2654,
0.3245

 32.9520, 0.2110,
0.3147


 85.5557, 0.2370,
0.3201


 22.0897, 0.1981,
0.3115


 111.0438, 0.2429,
0.3211

 13.9228, 0.1815,
0.3069


 141.1493, 0.2480,
0.3220

 8.0670, 0.1597,
0.2998

 176.2566, 0.2525,
0.3226

 4.1379, 0.1303,
0.2881

 216.7502, 0.2563,
0.3232

 1.7510, 0.0856,
0.2676

263.0143, 0.2597,

 0.4563, 0.0000,

0.3237

0.2065

315.4335, 0.2627,
0.3241

■ 0.0000, 0.0000,
0.0000

■ 46.8942, 0.2214,
0.3170

■ 46.8942, 0.2214,
0.3170

■ 46.8932, 0.2214,
0.3170

■ 47.4314, 0.2231,
0.3182

■ 48.1427, 0.2262,
0.3195

■ 49.0879, 0.2312,
0.3208

■ 50.2986, 0.2380,
0.3220

■ 51.8018, 0.2468,
0.3233

■ 53.6208, 0.2573,
0.3246

■ 55.7769, 0.2695,
0.3258

■ 58.2894, 0.2830,
0.3269

■ 61.1760, 0.2975,
0.3280

Harmonies

Analogous

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



46.8942, 0.2559, 0.3754



46.8942, 0.2214, 0.3170



46.8942, 0.2100, 0.2697

Triad

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



46.8942, 0.2214, 0.3170



46.8942, 0.3095, 0.2556



46.8942, 0.4078, 0.4120

Complementary

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



46.8942, 0.2214, 0.3170



13.8747, 0.6376, 0.3318

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.



46.8942, 0.4271, 0.3728



46.8942, 0.2214, 0.3170



46.8942, 0.3678, 0.2869

Square

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



46.8942, 0.2214, 0.3170



46.8942, 0.2571, 0.2399



46.8942, 0.4126, 0.3283



46.8942, 0.3633, 0.4330

Rectangle

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



46.8942, 0.2214, 0.3170



46.8942, 0.2157, 0.2499



46.8942, 0.4126, 0.3283



46.8942, 0.4176, 0.4003

Sweetspot

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



46.8959, 0.2214, 0.3170



86.4230, 0.2690, 0.3257



46.1003, 0.2995, 0.5982



18.1805, 0.2636, 0.3252



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.



46.8959, 0.2214, 0.3170



72.7109, 0.2214, 0.3169



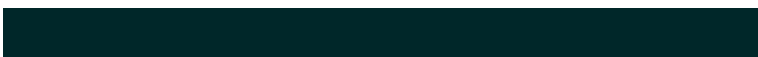
13.3977, 0.1738, 0.1455



13.3268, 0.2983, 0.3281



28.6448, 0.2214, 0.3172



1.6262, 0.2221, 0.3194

Inverse Universe

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



17.9658, 0.3307, 0.1596



27.8714, 0.3308, 0.1596



25.2967, 0.5320, 0.4157



12.0010, 0.3144, 0.3069



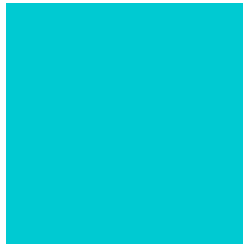
10.9630, 0.3306, 0.1595



0.6155, 0.3287, 0.1584

Previews

White Background



This preview shows how the Yxy color 46.8942, 0.2214, 0.3170 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 46.8942, 0.2214, 0.3170 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

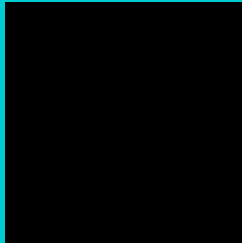
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

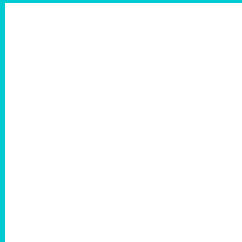
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 46.8942, 0.2214, 0.3170

Background



This preview shows how black text looks on a background with the Yxy color 46.8942, 0.2214, 0.3170.



This preview shows how white text looks on a background with the Yxy color 46.8942, 0.2214, 0.3170.

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

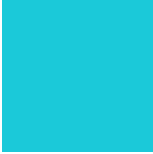
46.8942, 0.2214, 0.3170

Protanopia

46.3313, 0.3003, 0.3084

Deuteranopia

46.2259, 0.2862, 0.2805



Tritanopia

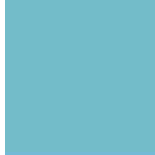
47.0161, 0.2202, 0.3057

Trichromacy



Original Color

46.8942, 0.2214, 0.3170



Protanomaly

43.8283, 0.2520, 0.3103



Deuteranomaly

43.6177, 0.2443, 0.2898



Tritanomaly

46.7475, 0.2204, 0.3098

Monochromacy



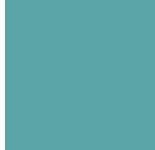
Original Color

46.8942, 0.2214, 0.3170



Achromatopsia

27.4677, 0.3127, 0.3290



Achromatomaly

31.5651, 0.2520, 0.3238

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.8942, 0.2214, 0.3170 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, 202, 210)` looks like.

```
.text, #text, p{  
    color:rgb(0, 202, 210)  
}
```

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, 202, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 202, 210) }
```

Border

The CSS property to change the border of an element to Yxy 46.8942, 0.2214, 0.3170 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, 202, 210) }
```

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

```
.border{ border-color:rgb(0, 202, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 202, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 202, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 202, 210);  
box-shadow:4px 4px 4px 4px rgb(0, 202,  
210) }
```


Background

The CSS property to change the background color of an element to Yxy 46.8942, 0.2214, 0.3170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 202, 210) }
```

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

```
.background{ background-color: rgb(0, 202,  
210) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor