

Converting Colors

$Y_{xy}(30.6900, 0.2014, 0.2795)$

Have a look what the booklet for
Yxy(30.6900, 0.2014, 0.2795)
contains.

| | |
|--|----|
| Yxy(31.6230, 0.2114, 0.2811) | 3 |
| <i>Conversions</i> | 4 |
| <i>Details</i> | 6 |
| <i>Harmonies</i> | 12 |
| <i>Previews</i> | 24 |
| <i>Color Blindness Simulation</i> | 27 |
| <i>CSS Examples</i> | 30 |

Color

Yxy(31.6230, 0.2114, 0.2811)

Conversions

Conversions Part 1

| Format | Color |
|-------------|-------------------------------|
| Hex | 00A7C4 |
| RGB | 0, 167, 196 |
| RGB Percent | 0%, 65%, 77% |
| CMY | 1.0000, 0.3451, 0.2313 |
| CMYK | 1.00, 0.15, 0.00, 0.23 |
| HSL | 189°, 100%, 38% |
| HSV | 189°, 100%, 77% |
| XYZ | 23.7819, 31.6230, 57.0924 |
| YIQ | 120.3730, -108.8410, -26.3850 |

Conversions

Conversions Part 2

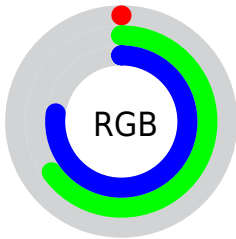
| Format | Color |
|-------------------------------------|--|
| RYB | 0, 90, 196 |
| Decimal | 42948 |
| CIELab | 63.03, -25.58, -25.02 |
| CIELCh | 63, 35.778, 224.366 |
| Yxy | 31.6230, 0.2114, 0.2811 |
| Android (android.graphics.Color) | 4278233028 (0xFF00A7C4) |
| YUV | 120.3730, 37.2841, -105.5671 |
| Hunter-Lab | 56.2343, -22.9210, -20.8307 |

Details

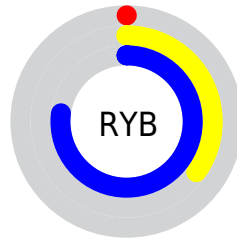
The Yxy color **31.6230, 0.2114, 0.2811** is a dark color, and the websafe version is hex **0099CC**. The color can be described as dark washed azure. A complement of this color would be **12.6198, 0.6266, 0.3407**, and the grayscale version is **18.8144, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.0437, 0.2300, 0.2906**, and **14.2145, 0.2079, 0.2683** is the 20% darker color. If you saturate the color by 10%, you get **31.6261, 0.2114, 0.2811**, and if you desaturate by 10%, it is **32.8462, 0.2144, 0.2863**.

Distribution



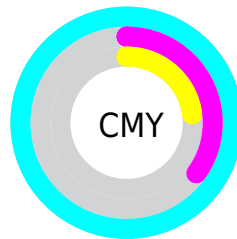
- Red (0%)
- Green (65%)
- Blue (77%)



- Red (0%)
- Yellow (35%)
- Blue (77%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (23%)




- Cyan (100%)
- Magenta (35%)
- Yellow (23%)


Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6230, 0.2114, 0.2811 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 31.6230, 0.2114, 0.2811 by changing the saturation by 10% instead.

 31.6230, 0.2114,
0.2811


 31.6230, 0.2114,
0.2811


 309.3983, 0.2629,
0.3079


 21.0737, 0.1985,
0.2735


 62.2196, 0.2302,
0.2915

 13.1779, 0.1822,
0.2634


 83.0357, 0.2372,
0.2952


 7.5512, 0.1607,
0.2490


 108.0429, 0.2432,
0.2983

 3.8091, 0.1320,
0.2278

 137.6255, 0.2483,
0.3008

 1.5674, 0.0925,
0.1942

 172.1679, 0.2527,
0.3030

 0.3354, 0.0000,
0.1130

212.0546, 0.2565,

 0.0000, 0.0000,

0.3049

0.0000

257.6699, 0.2599,
0.3065

■ 31.6230, 0.2114,
0.2811

■ 31.6230, 0.2114,
0.2811

■ 31.6261, 0.2114,
0.2811

■ 32.8462, 0.2144,
0.2863

■ 34.2366, 0.2190,
0.2915

■ 35.8489, 0.2254,
0.2968

■ 37.7102, 0.2337,
0.3020

■ 39.8430, 0.2438,
0.3071

■ 42.2676, 0.2555,
0.3120

■ 45.0017, 0.2686,
0.3167

■ 48.0619, 0.2827,
0.3212

■ 51.4633, 0.2975,
0.3253

Harmonies

Analogous

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



31.6230, 0.2293, 0.3328



31.6230, 0.2114, 0.2811



31.6230, 0.2173, 0.2492

Triad

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



31.6230, 0.2114, 0.2811



31.6230, 0.3519, 0.2773



31.6230, 0.3769, 0.4293

Complementary

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



31.6230, 0.2114, 0.2811



12.6198, 0.6266, 0.3407

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.



31.6230, 0.4155, 0.4020



31.6230, 0.2114, 0.2811



31.6230, 0.4022, 0.3164

Square

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



31.6230, 0.2114, 0.2811



31.6230, 0.2939, 0.2500



31.6230, 0.4258, 0.3606



31.6230, 0.3232, 0.4274

Rectangle

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



31.6230, 0.2114, 0.2811



31.6230, 0.2340, 0.2403



31.6230, 0.4258, 0.3606



31.6230, 0.3922, 0.4227

Sweetspot

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



31.6261, 0.2114, 0.2811



81.2490, 0.2679, 0.3165



39.5687, 0.2972, 0.5899



16.9242, 0.2622, 0.3145



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.



31.6261, 0.2114, 0.2811



56.9712, 0.2112, 0.2803



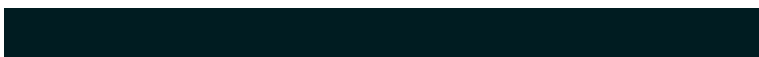
8.6058, 0.1656, 0.1161



11.1661, 0.2984, 0.3255



20.4133, 0.2116, 0.2818



0.9527, 0.2148, 0.2934

Inverse Universe

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



14.5300, 0.3624, 0.1770



26.2824, 0.3632, 0.1774



26.1934, 0.5028, 0.4390



10.2211, 0.3160, 0.3096



9.3430, 0.3618, 0.1767



0.4108, 0.3513, 0.1709

Previews

White Background



This preview shows how the Yxy color 31.6230, 0.2114, 0.2811 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 31.6230, 0.2114, 0.2811 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

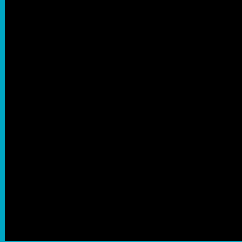
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.6230, 0.2114, 0.2811

Background



This preview shows how black text looks on a background with the Yxy color 31.6230, 0.2114, 0.2811.

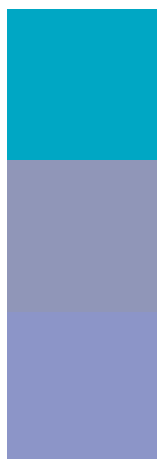


This preview shows how white text looks on a background with the Yxy color 31.6230, 0.2114, 0.2811.

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

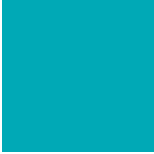
31.6230, 0.2114, 0.2811

Protanopia

31.2027, 0.2773, 0.2786

Deuteranopia

31.2405, 0.2617, 0.2556



Tritanopia

31.7533, 0.2185, 0.3066

Trichromacy



Original Color

31.6230, 0.2114, 0.2811



Protanomaly

29.6831, 0.2371, 0.2773



Deuteranomaly

30.0243, 0.2293, 0.2616



Tritanomaly

31.5931, 0.2158, 0.2967

Monochromacy



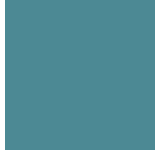
Original Color

31.6230, 0.2114, 0.2811



Achromatopsia

18.7821, 0.3127, 0.3290



Achromatomaly

21.5659, 0.2464, 0.3076

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.6230, 0.2114, 0.2811 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, 167, 196)` looks like.

```
.text, #text, p{  
    color:rgb(0, 167, 196)  
}
```

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, 167, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 167, 196) }
```

Border

The CSS property to change the border of an element to Yxy 31.6230, 0.2114, 0.2811 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, 167, 196) }
```

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

```
.border{ border-color:rgb(0, 167, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 167, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 167, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 167, 196);  
box-shadow:4px 4px 4px 4px rgb(0, 167,  
196) }
```


Background

The CSS property to change the background color of an element to Yxy 31.6230, 0.2114, 0.2811 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 167, 196) }
```

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

```
.background{ background-color: rgb(0, 167,  
196) }
```

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