

Converting Colors

$Y_{xy}(31.9555, 0.2254, 0.3278)$

Have a look what the booklet for
Yxy(31.9555, 0.2254, 0.3278)
contains.

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Color

Yxy(31.7679, 0.2252, 0.3270)

Conversions

Conversions Part 1

Format	Color
Hex	0CAAAB
RGB	12, 170, 171
RGB Percent	5%, 67%, 67%
CMY	0.9523, 0.3333, 0.3294
CMYK	0.93, 0.01, 0.00, 0.33
HSL	180°, 87%, 36%
HSV	180°, 93%, 67%
XYZ	21.8781, 31.7679, 43.5036
YIQ	122.8720, -94.4890, -33.1850

Conversions

Conversions Part 2

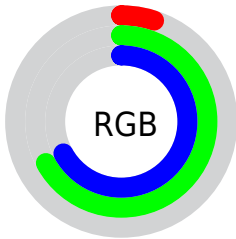
Format	Color
RYB	12, 91, 171
Decimal	830123
CIELab	63.15, -34.74, -10.84
CIElCh	63, 36.391, 197.328
Yxy	31.7679, 0.2252, 0.3270
Android (android.graphics.Color)	4279020203 (0xFF0CAAAB)
YUV	122.8720, 23.7271, -97.2347
Hunter-Lab	56.3630, -29.3481, -6.3086

Details

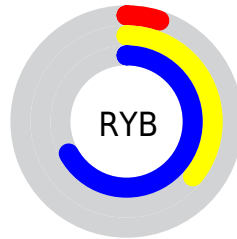
The Yxy color **31.7679, 0.2252, 0.3270** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **8.9765, 0.6259, 0.3303**, and the grayscale version is **19.7245, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.5363, 0.2422, 0.3288**, and **14.0545, 0.2233, 0.3238** is the 20% darker color. If you saturate the color by 10%, you get **31.6611, 0.2241, 0.3269**, and if you desaturate by 10%, it is **31.9950, 0.2276, 0.3272**.

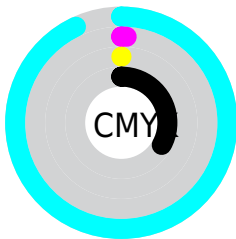
Distribution



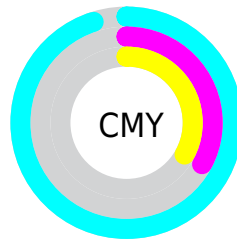
- Red (5%)
- Green (67%)
- Blue (67%)



- Red (5%)
- Yellow (36%)
- Blue (67%)



- Cyan (93%)
- Magenta (1%)
- Yellow (0%)
- Black (33%)





- Cyan (95%)
- Magenta (33%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 31.7679, 0.2252, 0.3270 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 31.7679, 0.2252, 0.3270 by changing the saturation by 10% instead.


 31.7679, 0.2252,
0.3270


 31.7679, 0.2252,
0.3270


 310.0606, 0.2704,
0.3294


 21.1843, 0.2135,
0.3258


 62.4471, 0.2419,
0.3283


 13.2588, 0.1984,
0.3240


 83.3114, 0.2481,
0.3286


 7.6070, 0.1781,
0.3207


 108.3714, 0.2533,
0.3289

 3.8445, 0.1498,
0.3147

 138.0115, 0.2578,
0.3290

 1.5870, 0.1025,
0.3036

 172.6161, 0.2616,
0.3292

 0.3488, 0.0000,
0.2330

 212.5695, 0.2649,

 0.0000, 0.0000,

0.3293

0.0000

258.2562, 0.2678,
0.3294

■ 31.7679, 0.2252,
0.3270

■ 31.7679, 0.2252,
0.3270

■ 31.6611, 0.2241,
0.3269

■ 31.9950, 0.2276,
0.3272

■ 32.3596, 0.2318,
0.3274

■ 32.8826, 0.2378,
0.3276

■ 33.5810, 0.2457,
0.3279

■ 34.4692, 0.2553,
0.3281

■ 35.5605, 0.2667,
0.3283

■ 36.8666, 0.2795,
0.3285

■ 38.3986, 0.2934,
0.3287

■ 40.1668, 0.3083,
0.3289

Harmonies

Analogous

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



31.7679, 0.2637, 0.3858



31.7679, 0.2252, 0.3270



31.7679, 0.2095, 0.2761

Triad

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



31.7679, 0.2252, 0.3270



31.7679, 0.2992, 0.2510



31.7679, 0.4142, 0.4066

Complementary

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



31.7679, 0.2252, 0.3270



8.9765, 0.6259, 0.3303

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.



31.7679, 0.4281, 0.3653



31.7679, 0.2252, 0.3270



31.7679, 0.3583, 0.2801

Square

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



31.7679, 0.2252, 0.3270



31.7679, 0.2489, 0.2384



31.7679, 0.4074, 0.3204



31.7679, 0.3729, 0.4322

Rectangle

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



31.7679, 0.2252, 0.3270



31.7679, 0.2124, 0.2535



31.7679, 0.4074, 0.3204



31.7679, 0.4224, 0.3938

Sweetspot

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



31.7691, 0.2252, 0.3270



64.6686, 0.2721, 0.3284



29.2302, 0.3003, 0.5937



14.2120, 0.2669, 0.3283



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.



31.7691, 0.2252, 0.3270



56.6946, 0.2241, 0.3268



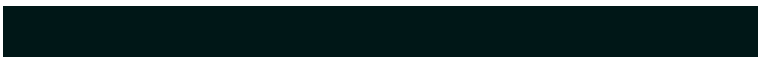
10.6020, 0.1826, 0.1713



9.0634, 0.2987, 0.3288



23.8725, 0.2241, 0.3269



0.6668, 0.2243, 0.3275

Inverse Universe

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



11.8268, 0.3222, 0.1576



20.6977, 0.3225, 0.1550



16.2668, 0.5252, 0.4137



8.1472, 0.3139, 0.3068



8.7130, 0.3225, 0.1550



0.2427, 0.3220, 0.1547

Previews

White Background



This preview shows how the Yxy color 31.7679, 0.2252, 0.3270 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 31.7679, 0.2252, 0.3270 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

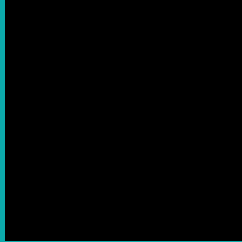
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.7679, 0.2252, 0.3270

Background



This preview shows how black text looks on a background with the Yxy color 31.7679, 0.2252, 0.3270.

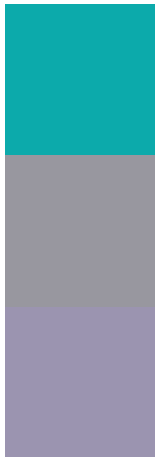


This preview shows how white text looks on a background with the Yxy color 31.7679, 0.2252, 0.3270.

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

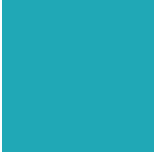
31.7679, 0.2252, 0.3270

Protanopia

31.3118, 0.3063, 0.3168

Deuteranopia

31.2830, 0.2940, 0.2879



Tritanopia

31.6897, 0.2218, 0.3050

Trichromacy



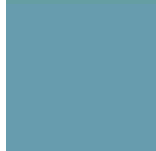
Original Color

31.7679, 0.2252, 0.3270



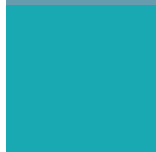
Protanomaly

29.8648, 0.2597, 0.3204



Deuteranomaly

29.7165, 0.2530, 0.2993



Tritanomaly

31.7970, 0.2229, 0.3133

Monochromacy



Original Color

31.7679, 0.2252, 0.3270



Achromatopsia

19.8069, 0.3127, 0.3290



Achromatomaly

22.4886, 0.2585, 0.3288

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.7679, 0.2252, 0.3270 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(12, 170, 171)` looks like.

```
.text, #text, p{  
  color:rgb(12, 170, 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(12, 170, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 170, 171) }
```

Border

The CSS property to change the border of an element to Yxy 31.7679, 0.2252, 0.3270 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(12, 170, 171) }
```

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

```
.border{ border-color:rgb(12, 170, 171) }
```

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

Here you see how a box with a 4 pixel rgb(12, 170, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 170, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 170, 171);  
box-shadow:4px 4px 4px 4px rgb(12, 170,  
171) }
```


Background

The CSS property to change the background color of an element to Yxy 31.7679, 0.2252, 0.3270 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 170, 171) }
```

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

```
.background{ background-color: rgb(12, 170,  
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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