

# Converting Colors

$Y_{xy}(26.1783, 0.1987, 0.3258)$

Have a look what the booklet for  
Yxy(26.1783, 0.1987, 0.3258)  
contains.

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# Color

**Yxy(27.7502, 0.2236, 0.3250)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A0A2
RGB	0, 160, 162
RGB Percent	0%, 63%, 64%
CMY	1.0000, 0.3725, 0.3646
CMYK	1.00, 0.01, 0.00, 0.36
HSL	181°, 100%, 32%
HSV	181°, 100%, 64%
XYZ	19.0921, 27.7502, 38.5429
YIQ	112.3880, -96.0020, -33.2980

# Conversions

## Conversions Part 2

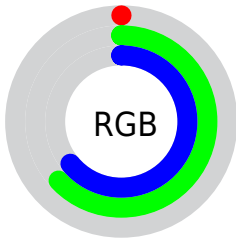
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 80, 162
Decimal	41122
CIELab	59.66, -33.31, -11.03
CIELCh	60, 35.083, 198.318
Yxy	27.7502, 0.2236, 0.3250
Android (android.graphics.Color)	4278231202 (0xFF00A0A2)
YUV	112.3880, 24.4587, -98.5643
Hunter-Lab	52.6785, -27.4939, -6.5054

# Details

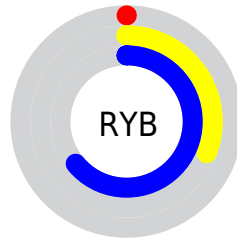
The Yxy color **27.7502, 0.2236, 0.3250** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **7.7277, 0.6390, 0.3308**, and the grayscale version is **16.2724, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.9378, 0.2410, 0.3261**, and **11.8509, 0.2232, 0.3235** is the 20% darker color. If you saturate the color by 10%, you get **27.7523, 0.2236, 0.3250**, and if you desaturate by 10%, it is **27.9344, 0.2254, 0.3254**.

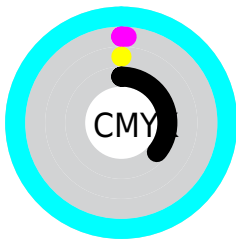
# Distribution



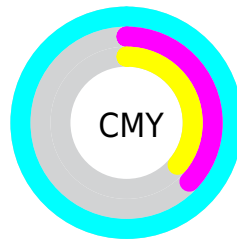
- Red (0%)
- Green (63%)
- Blue (64%)



- Red (0%)
- Yellow (31%)
- Blue (64%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (36%)




- Cyan (100%)
- Magenta (37%)
- Yellow (36%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 27.7502, 0.2236, 0.3250 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 27.7502, 0.2236, 0.3250 by changing the saturation by 10% instead.





 27.7502, 0.2236,  
0.3250


 27.7502, 0.2236,  
0.3250


 291.2713, 0.2706,  
0.3286

 18.1374, 0.2112,  
0.3234


 56.0854, 0.2412,  
0.3268

 11.0487, 0.1948,  
0.3209


 75.5766, 0.2477,  
0.3273

 6.0996, 0.1726,  
0.3166

 99.1294, 0.2531,  
0.3277

 2.9057, 0.1409,  
0.3084

 127.1282, 0.2577,  
0.3279

 1.0827, 0.0568,  
0.3021

 159.9574, 0.2616,  
0.3282

 0.0000, 0.0000,  
0.0000

 198.0014, 0.2650,

0.3283

241.6446, 0.2680,  
0.3285

■ 27.7502, 0.2236,  
0.3250

■ 27.7502, 0.2236,  
0.3250

■ 27.7523, 0.2236,  
0.3250

■ 27.9344, 0.2254,  
0.3254

■ 28.2062, 0.2284,  
0.3258

■ 28.6062, 0.2332,  
0.3262

■ 29.1507, 0.2398,  
0.3266

■ 29.8538, 0.2483,  
0.3271

■ 30.7278, 0.2585,  
0.3275

■ 31.7838, 0.2703,  
0.3279

■ 33.0320, 0.2835,  
0.3283

■ 34.4819, 0.2977,  
0.3287

# Harmonies

## Analogous

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



27.7502, 0.2617, 0.3845



27.7502, 0.2236, 0.3250



27.7502, 0.2086, 0.2743

# Triad

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



27.7502, 0.2236, 0.3250



27.7502, 0.3010, 0.2511



27.7502, 0.4140, 0.4083

# Complementary

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



27.7502, 0.2236, 0.3250



7.7277, 0.6390, 0.3308

# 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.



27.7502, 0.4291, 0.3670



27.7502, 0.2236, 0.3250



27.7502, 0.3605, 0.2809

# Square

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



27.7502, 0.2236, 0.3250



27.7502, 0.2498, 0.2379



27.7502, 0.4094, 0.3218



27.7502, 0.3716, 0.4335



# Rectangle

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



27.7502, 0.2236, 0.3250



27.7502, 0.2121, 0.2520



27.7502, 0.4094, 0.3218



27.7502, 0.4226, 0.3956

# Sweetspot

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



27.7523, 0.2236, 0.3250



57.5644, 0.2696, 0.3279



25.8489, 0.3000, 0.6000



12.7484, 0.2647, 0.3277



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

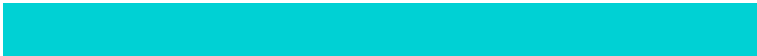


# Same Dimension

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



27.7523, 0.2236, 0.3250



50.3424, 0.2236, 0.3249



8.4961, 0.1776, 0.1594



7.9960, 0.2988, 0.3287



21.8620, 0.2236, 0.3250



0.4638, 0.2240, 0.3265



# Inverse Universe

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



10.2220, 0.3240, 0.1559



18.5491, 0.3241, 0.1559



13.5704, 0.5393, 0.4100



7.2007, 0.3139, 0.3071



8.0511, 0.3240, 0.1558



0.1696, 0.3228, 0.1552



# Previews

## White Background



This preview shows how the Yxy color 27.7502, 0.2236, 0.3250 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

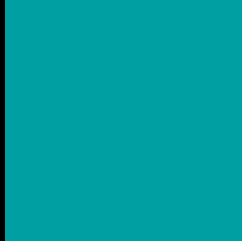
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.7502, 0.2236, 0.3250 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

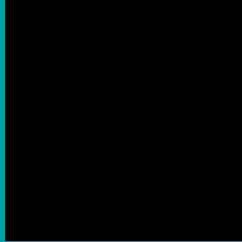
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.7502, 0.2236, 0.3250**

## Background



This preview shows how black text looks on a background with the Yxy color 27.7502, 0.2236, 0.3250.

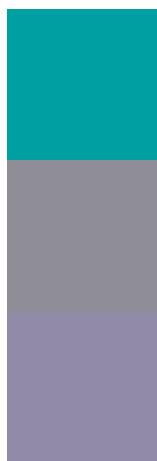


This preview shows how white text looks on a background with the Yxy color 27.7502, 0.2236, 0.3250.

# 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

27.7502, 0.2236, 0.3250

### Protanopia

27.4200, 0.3050, 0.3145

### Deuteranopia

27.2750, 0.2919, 0.2856



## Tritanopia

27.9696, 0.2219, 0.3072

# Trichromacy



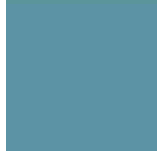
## Original Color

27.7502, 0.2236, 0.3250



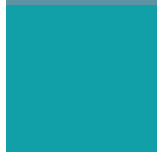
## Protanomaly

26.0856, 0.2558, 0.3181



## Deuteranomaly

25.8594, 0.2489, 0.2974



## Tritanomaly

27.7426, 0.2218, 0.3124

# Monochromacy



## Original Color

27.7502, 0.2236, 0.3250



## Achromatopsia

16.2029, 0.3127, 0.3290



## Achromatomaly

18.6518, 0.2536, 0.3267

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.7502, 0.2236, 0.3250 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, 160, 162)` looks like.

```
.text, #text, p{  
    color:rgb(0, 160, 162)  
}
```

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, 160, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 160, 162) }
```

## Border

The CSS property to change the border of an element to Yxy 27.7502, 0.2236, 0.3250 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, 160, 162) }
```

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

```
.border{ border-color:rgb(0, 160, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 160, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 160, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 160, 162);  
box-shadow:4px 4px 4px 4px rgb(0, 160,  
162) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.7502, 0.2236, 0.3250 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 160, 162) }
```

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

```
.background{ background-color: rgb(0, 160,  
162) }
```

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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