

Converting Colors

$Y_{xy}(22.7370, 0.1137, 0.2980)$

Have a look what the booklet for
Yxy(22.7370, 0.1137, 0.2980)
contains.

Yxy(28.9753, 0.2178, 0.3040)	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(28.9753, 0.2178, 0.3040)

Conversions

Conversions Part 1

Format	Color
Hex	00A2B0
RGB	0, 162, 176
RGB Percent	0%, 64%, 69%
CMY	0.9992, 0.3647, 0.3098
CMYK	1.00, 0.08, 0.00, 0.31
HSL	185°, 100%, 35%
HSV	185°, 100%, 69%
XYZ	20.7593, 28.9753, 45.5789
YIQ	115.1580, -101.0460, -29.9900

Conversions

Conversions Part 2

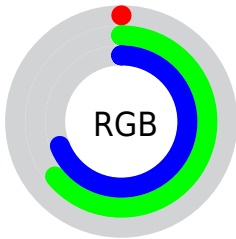
Format	Color
RYB	0, 84, 176
Decimal	41648
CIELab	60.76, -29.75, -17.27
CIELCh	61, 34.397, 210.131
Yxy	28.9753, 0.2178, 0.3040
Android (android.graphics.Color)	4278231728 (0xFF00A2B0)
YUV	115.1580, 29.9951, -100.9936
Hunter-Lab	53.8287, -25.3609, -12.5231

Details

The Yxy color **28.9753, 0.2178, 0.3040** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.5519, 0.6336, 0.3349**, and the grayscale version is **17.1441, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.9387, 0.2359, 0.3093**, and **12.5819, 0.2157, 0.2966** is the 20% darker color. If you saturate the color by 10%, you get **28.9695, 0.2178, 0.3040**, and if you desaturate by 10%, it is **29.5988, 0.2202, 0.3066**.

Distribution



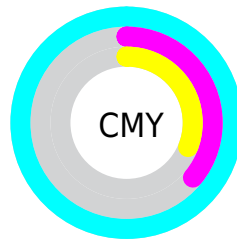
- Red (0%)
- Green (64%)
- Blue (69%)



- Red (0%)
- Yellow (33%)
- Blue (69%)



- Cyan (100%)
- Magenta (8%)
- Yellow (0%)
- Black (31%)





- Cyan (100%)
- Magenta (36%)
- Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 28.9753, 0.2178, 0.3040 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 28.9753, 0.2178, 0.3040 by changing the saturation by 10% instead.


 28.9753, 0.2178,
0.3040


 28.9753, 0.2178,
0.3040


 297.0984, 0.2671,
0.3191


 19.0621, 0.2051,
0.2993


 58.0378, 0.2361,
0.3101

 11.7152, 0.1885,
0.2927

 77.9560, 0.2429,
0.3122


 6.5501, 0.1664,
0.2827


 101.9780, 0.2485,
0.3139

 3.1823, 0.1357,
0.2665

 130.4881, 0.2534,
0.3153

 1.2277, 0.0796,
0.2406

 163.8708, 0.2575,
0.3165

 0.0841, 0.0000,
0.0591

 202.5105, 0.2611,

 0.0000, 0.0000,

0.3175

0.0000

246.7916, 0.2643,
0.3183

■ 28.9753, 0.2178,
0.3040

■ 28.9753, 0.2178,
0.3040

■ 28.9695, 0.2178,
0.3040

■ 29.5988, 0.2202,
0.3066

■ 30.3391, 0.2239,
0.3093

■ 31.2399, 0.2295,
0.3120

■ 32.3213, 0.2370,
0.3147

■ 33.6007, 0.2463,
0.3174

■ 35.0932, 0.2572,
0.3200

■ 36.8125, 0.2696,
0.3225

■ 38.7711, 0.2833,
0.3248

■ 40.9805, 0.2978,
0.3270

Harmonies

Analogous

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



28.9753, 0.2464, 0.3604



28.9753, 0.2178, 0.3040



28.9753, 0.2125, 0.2622

Triad

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



28.9753, 0.2178, 0.3040



28.9753, 0.3240, 0.2631



28.9753, 0.3972, 0.4182

Complementary

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



28.9753, 0.2178, 0.3040



9.5519, 0.6336, 0.3349

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.



28.9753, 0.4234, 0.3829



28.9753, 0.2178, 0.3040



28.9753, 0.3800, 0.2971

Square

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



28.9753, 0.2178, 0.3040



28.9753, 0.2695, 0.2434



28.9753, 0.4177, 0.3394



28.9753, 0.3494, 0.4317

Rectangle

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



28.9753, 0.2178, 0.3040



28.9753, 0.2219, 0.2464



28.9753, 0.4177, 0.3394



28.9753, 0.4090, 0.4081

Sweetspot

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



28.9764, 0.2178, 0.3040



66.5435, 0.2688, 0.3223



31.0832, 0.2988, 0.5954



14.1347, 0.2636, 0.3213



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



28.9764, 0.2178, 0.3040



52.3761, 0.2177, 0.3035



8.3584, 0.1715, 0.1371



9.5133, 0.2986, 0.3271



21.2919, 0.2179, 0.3043



0.7039, 0.2199, 0.3117

Inverse Universe

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



11.8445, 0.3419, 0.1658



21.4539, 0.3423, 0.1659



18.3131, 0.5206, 0.4247



8.6348, 0.3149, 0.3083



8.6896, 0.3417, 0.1656



0.2768, 0.3353, 0.1621

Previews

White Background



This preview shows how the Yxy color 28.9753, 0.2178, 0.3040 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 28.9753, 0.2178, 0.3040 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

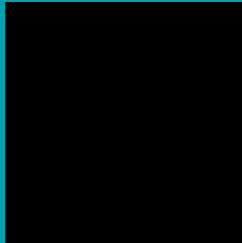
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

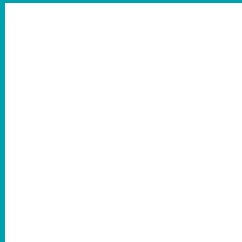
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 28.9753, 0.2178, 0.3040

Background



This preview shows how black text looks on a background with the Yxy color 28.9753, 0.2178, 0.3040.

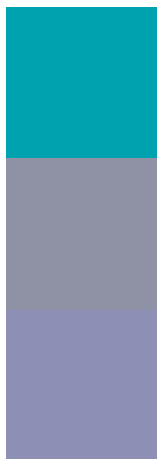


This preview shows how white text looks on a background with the Yxy color 28.9753, 0.2178, 0.3040.

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

28.9753, 0.2178, 0.3040

Protanopia

28.8071, 0.2920, 0.2978

Deuteranopia

28.6910, 0.2780, 0.2730



Tritanopia

28.9358, 0.2183, 0.3057

Trichromacy



Original Color

28.9753, 0.2178, 0.3040



Protanomaly

27.2219, 0.2467, 0.2979



Deuteranomaly

27.2410, 0.2393, 0.2803



Tritanomaly

28.9358, 0.2183, 0.3057

Monochromacy



Original Color

28.9753, 0.2178, 0.3040



Achromatopsia

17.1441, 0.3127, 0.3290



Achromatomaly

19.7251, 0.2507, 0.3187

CSS Examples

Text

The CSS property to change the color of the text to Yxy 28.9753, 0.2178, 0.3040 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, 162, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 162, 176)  
}
```

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, 162, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 162, 176) }
```

Border

The CSS property to change the border of an element to Yxy 28.9753, 0.2178, 0.3040 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, 162, 176) }
```

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

```
.border{ border-color:rgb(0, 162, 176) }
```

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

Here you see how a box with a 4 pixel rgb(0, 162, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 162, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 162, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 162,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 28.9753, 0.2178, 0.3040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 162, 176) }
```

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

```
.background{ background-color: rgb(0, 162,  
176) }
```

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