

Converting Colors

$Y_{xy}(30.6040, 0.2241, 0.3536)$

Have a look what the booklet for
Yxy(30.6040, 0.2241, 0.3536)
contains.

Yxy(31.1498, 0.2318, 0.3543)	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(31.1498, 0.2318, 0.3543)

Conversions

Conversions Part 1

Format	Color
Hex	00AA9C
RGB	0, 170, 156
RGB Percent	0%, 67%, 61%
CMY	0.9981, 0.3334, 0.3882
CMYK	1.00, 0.00, 0.08, 0.33
HSL	175°, 99%, 33%
HSV	175°, 100%, 67%
XYZ	20.3797, 31.1498, 36.3898
YIQ	117.5740, -96.8260, -40.3940

Conversions

Conversions Part 2

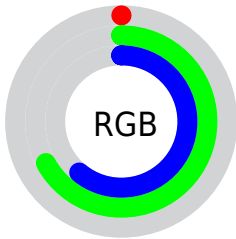
Format	Color
RYB	0, 89, 170
Decimal	43676
CIELab	62.63, -39.67, -3.22
CIELCh	63, 39.804, 184.637
Yxy	31.1498, 0.2318, 0.3543
Android (android.graphics.Color)	4278233756 (0xFF00AA9C)
YUV	117.5740, 18.9440, -103.1124
Hunter-Lab	55.8120, -32.4919, 0.4109

Details

The Yxy color **31.1498, 0.2318, 0.3543** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **8.5893, 0.6296, 0.3245**, and the grayscale version is **17.9866, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.4255, 0.2477, 0.3502**, and **13.7425, 0.2333, 0.3597** is the 20% darker color. If you saturate the color by 10%, you get **31.1464, 0.2318, 0.3544**, and if you desaturate by 10%, it is **31.3194, 0.2327, 0.3516**.

Distribution



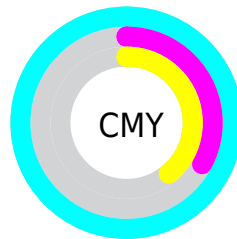
- Red (0%)
- Green (67%)
- Blue (61%)



- Red (0%)
- Yellow (35%)
- Blue (67%)



- Cyan (100%)
- Magenta (0%)
- Yellow (8%)
- Black (33%)




- Cyan (100%)
- Magenta (33%)
- Yellow (39%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.1498, 0.2318, 0.3543 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 31.1498, 0.2318, 0.3543 by changing the saturation by 10% instead.


 31.1498, 0.2318,
0.3543


 31.1498, 0.2318,
0.3543


 307.2279, 0.2743,
0.3415


 20.7129, 0.2206,
0.3575


 61.4758, 0.2477,
0.3496


 12.9143, 0.2059,
0.3616


 82.1338, 0.2535,
0.3479


 7.3696, 0.1858,
0.3669


 106.9676, 0.2584,
0.3464

 3.6943, 0.1571,
0.3739

 136.3616, 0.2625,
0.3451

 1.5041, 0.0939,
0.3913

 170.7003, 0.2661,
0.3440

 0.2916, 0.0000,
0.3496

 210.3679, 0.2692,

 0.0000, 0.0000,

0.3431

0.0000

255.7490, 0.2719,
0.3422

■ 31.1498, 0.2318,
0.3543

■ 31.1498, 0.2318,
0.3543

■ 31.1464, 0.2318,
0.3544

■ 31.3194, 0.2327,
0.3516

■ 31.5925, 0.2351,
0.3488

■ 32.0096, 0.2392,
0.3460

■ 32.5892, 0.2452,
0.3433

■ 33.3469, 0.2531,
0.3406

■ 34.2967, 0.2626,
0.3380

■ 35.4510, 0.2736,
0.3355

■ 36.8214, 0.2859,
0.3331

■ 38.4183, 0.2992,
0.3309

Harmonies

Analogous

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



31.1498, 0.2821, 0.4156



31.1498, 0.2318, 0.3543



31.1498, 0.2043, 0.2915

Triad

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



31.1498, 0.2318, 0.3543



31.1498, 0.2723, 0.2360



31.1498, 0.4347, 0.3948

Complementary

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



31.1498, 0.2318, 0.3543



8.5893, 0.6296, 0.3245

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.



31.1498, 0.4348, 0.3468



31.1498, 0.2318, 0.3543



31.1498, 0.3350, 0.2604

Square

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



31.1498, 0.2318, 0.3543



31.1498, 0.2258, 0.2310



31.1498, 0.3969, 0.2996



31.1498, 0.4000, 0.4331

Rectangle

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



31.1498, 0.2318, 0.3543



31.1498, 0.2003, 0.2602



31.1498, 0.3969, 0.2996



31.1498, 0.4391, 0.3792

Sweetspot

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



31.1510, 0.2318, 0.3543



64.1369, 0.2727, 0.3357



28.8470, 0.3020, 0.5981



14.1041, 0.2680, 0.3367



86.8899, 0.3127, 0.3290



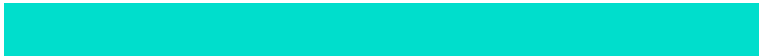
16.2647, 0.3127, 0.3290

Same Dimension

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



31.1510, 0.2318, 0.3543



56.5001, 0.2319, 0.3549



11.8991, 0.1856, 0.1878



8.5212, 0.2998, 0.3308



22.9172, 0.2317, 0.3541



0.5606, 0.2292, 0.3450

Inverse Universe

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



8.5893, 0.6296, 0.3245



15.5506, 0.6324, 0.3258



13.0682, 0.5632, 0.3907



7.5520, 0.3273, 0.3272



6.3136, 0.6287, 0.3237



0.1566, 0.5827, 0.2983

Previews

White Background



This preview shows how the Yxy color 31.1498, 0.2318, 0.3543 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 31.1498, 0.2318, 0.3543 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

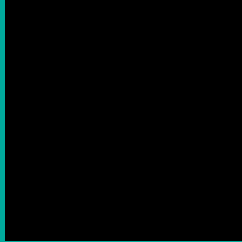
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.1498, 0.2318, 0.3543

Background



This preview shows how black text looks on a background with the Yxy color 31.1498, 0.2318, 0.3543.

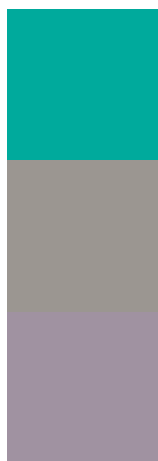


This preview shows how white text looks on a background with the Yxy color 31.1498, 0.2318, 0.3543.

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

31.1498, 0.2318, 0.3543

Protanopia

30.8256, 0.3226, 0.3367

Deuteranopia

30.6046, 0.3127, 0.3067



Tritanopia

31.0391, 0.2239, 0.3049

Trichromacy



Original Color

31.1498, 0.2318, 0.3543



Protanomaly

28.9365, 0.2681, 0.3429



Deuteranomaly

28.7707, 0.2626, 0.3220



Tritanomaly

30.7973, 0.2256, 0.3217

Monochromacy



Original Color

31.1498, 0.2318, 0.3543



Achromatopsia

18.1164, 0.3127, 0.3290



Achromatomaly

21.0531, 0.2578, 0.3389

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.1498, 0.2318, 0.3543 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, 170, 156)` looks like.

```
.text, #text, p{  
    color:rgb(0, 170, 156)  
}
```

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, 170, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 156) }
```

Border

The CSS property to change the border of an element to Yxy 31.1498, 0.2318, 0.3543 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, 170, 156) }
```

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

```
.border{ border-color:rgb(0, 170, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 170, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 156);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
156) }
```


Background

The CSS property to change the background color of an element to Yxy 31.1498, 0.2318, 0.3543 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 170, 156) }
```

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

```
.background{ background-color: rgb(0, 170,  
156) }
```

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