

Converting Colors

$Y_{xy}(31.8381, 0.2338, 0.3616)$

Have a look what the booklet for
Yxy(31.8381, 0.2338, 0.3616)
contains.

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Color

Yxy(31.8381, 0.2338, 0.3616)

Conversions

Conversions Part 1

Format	Color
Hex	00AC9A
RGB	0, 172, 154
RGB Percent	0%, 67%, 60%
CMY	0.9992, 0.3255, 0.3961
CMYK	1.00, 0.00, 0.10, 0.33
HSL	174°, 100%, 34%
HSV	174°, 100%, 67%
XYZ	20.5856, 31.8381, 35.6242
YIQ	118.5200, -96.7340, -42.0620

Conversions

Conversions Part 2

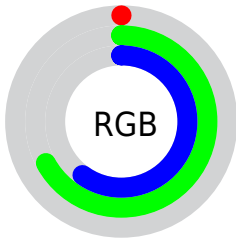
Format	Color
RYB	0, 91, 172
Decimal	44186
CIELab	63.21, -41.15, -1.25
CIELCh	63, 41.167, 181.735
Yxy	31.8381, 0.2338, 0.3616
Android (android.graphics.Color)	4278234266 (0xFF00AC9A)
YUV	118.5200, 17.4916, -103.9420
Hunter-Lab	56.4253, -33.6222, 2.0649

Details

The Yxy color **31.8381, 0.2338, 0.3616** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **8.8194, 0.6267, 0.3227**, and the grayscale version is **18.2740, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.4738, 0.2495, 0.3555**, and **14.1729, 0.2361, 0.3700** is the 20% darker color. If you saturate the color by 10%, you get **31.8374, 0.2338, 0.3616**, and if you desaturate by 10%, it is **32.0215, 0.2345, 0.3581**.

Distribution



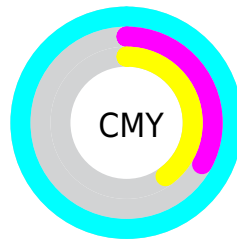
- Red (0%)
- Green (67%)
- Blue (60%)



- Red (0%)
- Yellow (36%)
- Blue (67%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (33%)





- Cyan (100%)
- Magenta (33%)
- Yellow (40%)


Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8381, 0.2338, 0.3616 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 31.8381, 0.2338, 0.3616 by changing the saturation by 10% instead.


 31.8381, 0.2338,
0.3616


 31.8381, 0.2338,
0.3616

 310.3811, 0.2752,
0.3447

 21.2379, 0.2229,
0.3660


 62.5572, 0.2493,
0.3553


 13.2980, 0.2085,
0.3717


 83.4448, 0.2550,
0.3530


 7.6341, 0.1889,
0.3795


 108.5304, 0.2597,
0.3510


 3.8617, 0.1607,
0.3904

 138.1983, 0.2638,
0.3494

 1.5965, 0.1000,
0.4144

 172.8330, 0.2672,
0.3480

 0.3552, 0.0000,
0.4284

 212.8187, 0.2703,

 0.0000, 0.0000,

0.3467

0.0000

258.5399, 0.2729,
0.3456

■ 31.8381, 0.2338,
0.3616

■ 31.8381, 0.2338,
0.3616

■ 31.8374, 0.2338,
0.3616

■ 32.0215, 0.2345,
0.3581

■ 32.3104, 0.2366,
0.3545

■ 32.7471, 0.2406,
0.3509

■ 33.3508, 0.2464,
0.3474

■ 34.1377, 0.2541,
0.3439

■ 35.1221, 0.2634,
0.3405

■ 36.3170, 0.2742,
0.3373

■ 37.7340, 0.2862,
0.3343

■ 39.3842, 0.2992,
0.3315

Harmonies

Analogous

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



31.8381, 0.2870, 0.4229



31.8381, 0.2338, 0.3616



31.8381, 0.2032, 0.2958

Triad

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



31.8381, 0.2338, 0.3616



31.8381, 0.2657, 0.2324



31.8381, 0.4396, 0.3915

Complementary

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



31.8381, 0.2338, 0.3616



8.8194, 0.6267, 0.3227

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.



31.8381, 0.4359, 0.3422



31.8381, 0.2338, 0.3616



31.8381, 0.3289, 0.2557

Square

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



31.8381, 0.2338, 0.3616



31.8381, 0.2204, 0.2293



31.8381, 0.3937, 0.2944



31.8381, 0.4067, 0.4326

Rectangle

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



31.8381, 0.2338, 0.3616



31.8381, 0.1975, 0.2623



31.8381, 0.3937, 0.2944



31.8381, 0.4428, 0.3754

Sweetspot

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



31.8393, 0.2338, 0.3616



65.7302, 0.2735, 0.3375



29.6572, 0.3031, 0.5974



14.0848, 0.2689, 0.3388



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.



31.8393, 0.2338, 0.3616



57.7373, 0.2340, 0.3623



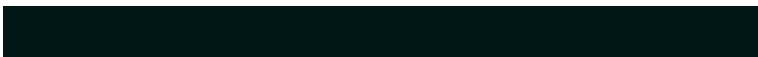
13.3173, 0.1887, 0.1991



9.0574, 0.3000, 0.3314



23.6966, 0.2337, 0.3613



0.6633, 0.2307, 0.3505

Inverse Universe

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



8.8194, 0.6267, 0.3227



15.9753, 0.6295, 0.3241



12.6740, 0.5731, 0.3830



8.0285, 0.3270, 0.3267



6.5636, 0.6254, 0.3219



0.1868, 0.5726, 0.2928

Previews

White Background



This preview shows how the Yxy color 31.8381, 0.2338, 0.3616 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 31.8381, 0.2338, 0.3616 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

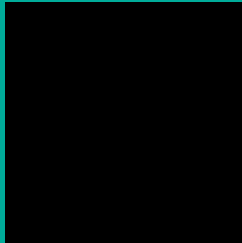
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.8381, 0.2338, 0.3616

Background



This preview shows how black text looks on a background with the Yxy color 31.8381, 0.2338, 0.3616.

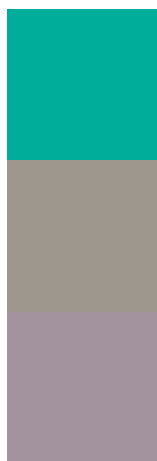


This preview shows how white text looks on a background with the Yxy color 31.8381, 0.2338, 0.3616.

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

31.8381, 0.2338, 0.3616

Protanopia

31.2543, 0.3275, 0.3429

Deuteranopia

31.1572, 0.3177, 0.3113



Tritanopia

31.9181, 0.2246, 0.3052

Trichromacy



Original Color

31.8381, 0.2338, 0.3616

Protanomaly

29.5809, 0.2715, 0.3516

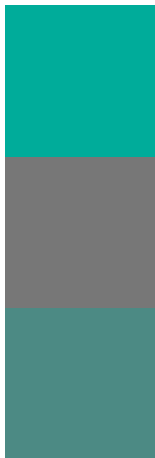
Deuteranomaly

29.1543, 0.2658, 0.3272

Tritanomaly

31.6014, 0.2264, 0.3235

Monochromacy



Original Color

31.8381, 0.2338, 0.3616

Achromatopsia

18.4475, 0.3127, 0.3290

Achromatomaly

21.3794, 0.2589, 0.3409

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.8381, 0.2338, 0.3616 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, 172, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 172, 154)  
}
```

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, 172, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 172, 154) }
```

Border

The CSS property to change the border of an element to Yxy 31.8381, 0.2338, 0.3616 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, 172, 154) }
```

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

```
.border{ border-color:rgb(0, 172, 154) }
```

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

Here you see how a box with a 4 pixel rgb(0, 172, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 172, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 172, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 172,  
154) }
```


Background

The CSS property to change the background color of an element to Yxy 31.8381, 0.2338, 0.3616 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 172, 154) }
```

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

```
.background{ background-color: rgb(0, 172,  
154) }
```

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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