

Converting Colors

$Yxy(20.9773, 0.2330, 0.3589)$

Have a look what the booklet for
Yxy(20.9773, 0.2330, 0.3589)
contains.

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Color

$\text{Yxy}(20.9045, 0.2331, 0.3591)$

Conversions

Conversions Part 1

Format	Color
Hex	008E80
RGB	0, 142, 128
RGB Percent	0%, 56%, 50%
CMY	0.9997, 0.4431, 0.4981
CMYK	1.00, 0.00, 0.10, 0.44
HSL	174°, 100%, 28%
HSV	174°, 100%, 56%
XYZ	13.5696, 20.9045, 23.7395
YIQ	97.9460, -80.1380, -34.4580

Conversions

Conversions Part 2

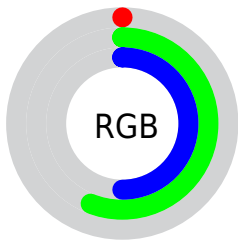
Format	Color
RYB	0, 75, 142
Decimal	36480
CIELab	52.84, -35.42, -1.68
CIElCh	53, 35.460, 182.710
Yxy	20.9045, 0.2331, 0.3591
Android (android.graphics.Color)	4278226560 (0xFF008E80)
YUV	97.9460, 14.8166, -85.8986
Hunter-Lab	45.7214, -27.0358, 1.2204

Details

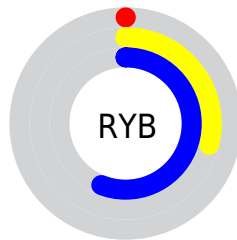
The Yxy color **20.9045, 0.2331, 0.3591** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **5.7848, 0.6255, 0.3220**, and the grayscale version is **12.1842, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.7473, 0.2501, 0.3516**, and **8.0467, 0.2355, 0.3678** is the 20% darker color. If you saturate the color by 10%, you get **20.9045, 0.2331, 0.3591**, and if you desaturate by 10%, it is **21.0376, 0.2342, 0.3558**.

Distribution



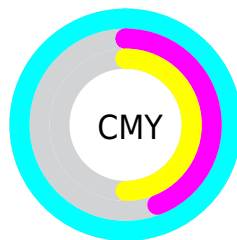
- Red (0%)
- Green (56%)
- Blue (50%)



- Red (0%)
- Yellow (29%)
- Blue (56%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (44%)




- Cyan (100%)
- Magenta (44%)
- Yellow (50%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.9045, 0.2331, 0.3591 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 20.9045, 0.2331, 0.3591 by changing the saturation by 10% instead.


 20.9045, 0.2331,
0.3591


 20.9045, 0.2331,
0.3591


256.7705, 0.2776,
0.3425


 13.0542, 0.2202,
0.3638


 44.9285, 0.2505,
0.3527

 7.4659, 0.2024,
0.3701

 61.8711, 0.2567,
0.3504


 3.7551, 0.1766,
0.3790

 82.6132, 0.2617,
0.3485

 1.5376, 0.1257,
0.3969

 107.5392, 0.2660,
0.3469

 0.3149, 0.0000,
0.4063

 137.0335, 0.2695,
0.3456

 0.0000, 0.0000,
0.0000

 171.4806, 0.2726,

0.3444

211.2648, 0.2753,
0.3434

■ 20.9045, 0.2331,
0.3591

■ 21.0376, 0.2342,
0.3558

■ 21.2334, 0.2366,
0.3525

■ 21.5247, 0.2407,
0.3492

■ 21.9231, 0.2466,
0.3460

■ 22.4387, 0.2544,
0.3428

■ 23.0803, 0.2637,
0.3397

■ 23.8560, 0.2745,
0.3367

■ 24.7731, 0.2864,
0.3339

■ 25.8385, 0.2993,
0.3313

Harmonies

Analogous

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



20.9045, 0.2853, 0.4204



20.9045, 0.2331, 0.3591



20.9045, 0.2036, 0.2943

Triad

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



20.9045, 0.2331, 0.3591



20.9045, 0.2679, 0.2336



20.9045, 0.4380, 0.3926

Complementary

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



20.9045, 0.2331, 0.3591



5.7848, 0.6255, 0.3220

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.



20.9045, 0.4355, 0.3438



20.9045, 0.2331, 0.3591



20.9045, 0.3310, 0.2573

Square

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



20.9045, 0.2331, 0.3591



20.9045, 0.2222, 0.2299



20.9045, 0.3948, 0.2962



20.9045, 0.4044, 0.4328

Rectangle

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



20.9045, 0.2331, 0.3591



20.9045, 0.1984, 0.2616



20.9045, 0.3948, 0.2962



20.9045, 0.4416, 0.3767

Sweetspot

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



20.9053, 0.2331, 0.3591



41.9656, 0.2737, 0.3369



19.4422, 0.3030, 0.5975



9.2555, 0.2696, 0.3380



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290

Same Dimension

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



20.9053, 0.2331, 0.3591



36.8491, 0.2333, 0.3598



8.4879, 0.1876, 0.1954



6.1073, 0.3003, 0.3312



18.7703, 0.2331, 0.3590



0.1812, 0.2286, 0.3428

Inverse Universe

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



5.7848, 0.6255, 0.3220



10.1851, 0.6286, 0.3237



8.6629, 0.5659, 0.3887



5.4322, 0.3267, 0.3269



5.1933, 0.6249, 0.3216



0.0510, 0.5638, 0.2880

Previews

White Background



This preview shows how the Yxy color 20.9045, 0.2331, 0.3591 looks on a white background.

Color Contrast Check

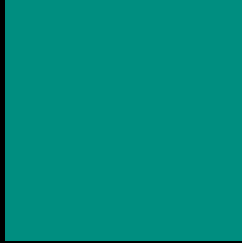
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.9045, 0.2331, 0.3591 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

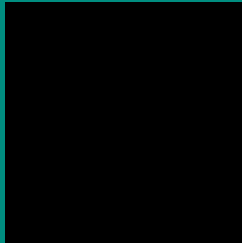
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.9045, 0.2331, 0.3591

Background



This preview shows how black text looks on a background with the Yxy color 20.9045, 0.2331, 0.3591.

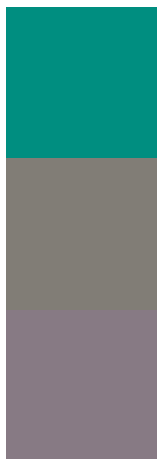


This preview shows how white text looks on a background with the Yxy color 20.9045, 0.2331, 0.3591.

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

20.9045, 0.2331, 0.3591

Protanopia

20.6424, 0.3255, 0.3418

Deuteranopia

20.7359, 0.3172, 0.3115



Tritanopia

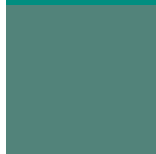
21.0423, 0.2254, 0.3067

Trichromacy



Original Color

20.9045, 0.2331, 0.3591



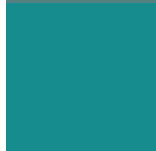
Protanomaly

19.4316, 0.2702, 0.3476



Deuteranomaly

19.3176, 0.2654, 0.3248



Tritanomaly

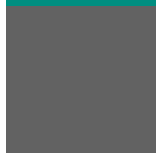
20.8913, 0.2271, 0.3246

Monochromacy



Original Color

20.9045, 0.2331, 0.3591



Achromatopsia

12.2139, 0.3127, 0.3290



Achromatomaly

14.1629, 0.2590, 0.3408

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.9045, 0.2331, 0.3591 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, 142, 128)` looks like.

```
.text, #text, p{  
    color:rgb(0, 142, 128)  
}
```

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, 142, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 142, 128) }
```

Border

The CSS property to change the border of an element to Yxy 20.9045, 0.2331, 0.3591 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, 142, 128) }
```

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

```
.border{ border-color:rgb(0, 142, 128) }
```

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

Here you see how a box with a 4 pixel rgb(0, 142, 128) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 142, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 142, 128);  
box-shadow:4px 4px 4px 4px rgb(0, 142,  
128) }
```


Background

The CSS property to change the background color of an element to Yxy 20.9045, 0.2331, 0.3591 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 142, 128) }
```

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

```
.background{ background-color: rgb(0, 142,  
128) }
```

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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