

# Converting Colors

$Y_{xy}(19.8556, 0.2328, 0.3457)$

Have a look what the booklet for  
Yxy(19.8556, 0.2328, 0.3457)  
contains.

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# Color

**Yxy(19.9481, 0.2330, 0.3461)**

# Conversions

## Conversions Part 1

Format	Color
Hex	158A82
RGB	21, 138, 130
RGB Percent	8%, 54%, 51%
CMY	0.9169, 0.4588, 0.4902
CMYK	0.85, 0.00, 0.06, 0.46
HSL	176°, 73%, 31%
HSV	176°, 85%, 54%
XYZ	13.4294, 19.9481, 24.2593
YIQ	102.1050, -67.1640, -27.2920

# Conversions

## Conversions Part 2

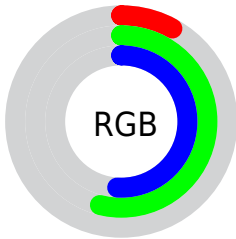
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	21, 82, 138
Decimal	1411714
CIE <sub>Lab</sub>	51.78, -31.73, -4.39
CIE <sub>LCh</sub>	52, 32.030, 187.873
Yxy	19.9481, 0.2330, 0.3461
Android (android.graphics.Color)	4279601794 (0xFF158A82)
YUV	102.1050, 13.7522, -71.1291
Hunter-Lab	44.6633, -24.4893, -0.9397

# Details

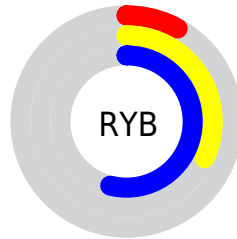
The Yxy color **19.9481, 0.2330, 0.3461** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **6.0356, 0.5847, 0.3215**, and the grayscale version is **13.3066, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.3423, 0.2506, 0.3425**, and **7.4105, 0.2302, 0.3485** is the 20% darker color. If you saturate the color by 10%, you get **19.8098, 0.2311, 0.3483**, and if you desaturate by 10%, it is **20.1699, 0.2365, 0.3439**.

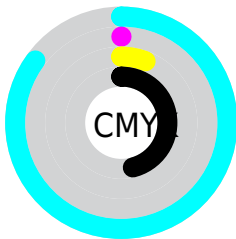
# Distribution



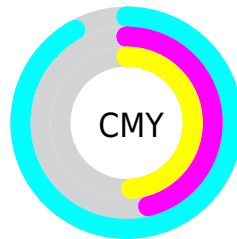
- Red (8%)
- Green (54%)
- Blue (51%)



- Red (8%)
- Yellow (32%)
- Blue (54%)



- Cyan (85%)
- Magenta (0%)
- Yellow (6%)
- Black (46%)



- Cyan (92%)
- Magenta (46%)
- Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9481, 0.2330, 0.3461 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 19.9481, 0.2330, 0.3461 by changing the saturation by 10% instead.





 19.9481, 0.2330,  
0.3461


 19.9481, 0.2330,  
0.3461


 251.6340, 0.2777,  
0.3372


 12.3573, 0.2200,  
0.3484


 43.3302, 0.2505,  
0.3428


 6.9875, 0.2021,  
0.3512


 59.8902, 0.2567,  
0.3416

 3.4543, 0.1759,  
0.3546

 80.2088, 0.2618,  
0.3405

 1.3733, 0.1229,  
0.3630

 104.6704, 0.2660,  
0.3397

 0.1969, 0.0000,  
0.2742

 133.6593, 0.2696,  
0.3389

 0.0000, 0.0000,  
0.0000

 167.5599, 0.2727,

0.3382

206.7567, 0.2753,  
0.3377

■ 19.9481, 0.2330,  
0.3461

■ 19.9481, 0.2330,  
0.3461

■ 19.8098, 0.2311,  
0.3483

■ 20.1699, 0.2365,  
0.3439

■ 19.7487, 0.2304,  
0.3495

■ 20.4862, 0.2418,  
0.3416

■ 20.9077, 0.2489,  
0.3394

■ 21.4430, 0.2577,  
0.3373

■ 22.1000, 0.2681,  
0.3352

■ 22.8858, 0.2798,  
0.3333

■ 23.8070, 0.2926,  
0.3314

■ 24.8697, 0.3062,  
0.3297

■ 26.0797, 0.3203,  
0.3282

# Harmonies

## Analogous

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



19.9481, 0.2786, 0.4041



19.9481, 0.2330, 0.3461



19.9481, 0.2093, 0.2890

# Triad

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



19.9481, 0.2330, 0.3461



19.9481, 0.2808, 0.2430



19.9481, 0.4249, 0.3960

# Complementary

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



19.9481, 0.2330, 0.3461



6.0356, 0.5847, 0.3215

# 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.



19.9481, 0.4284, 0.3514



19.9481, 0.2330, 0.3461



19.9481, 0.3404, 0.2679

# Square

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



19.9481, 0.2330, 0.3461



19.9481, 0.2349, 0.2363



19.9481, 0.3965, 0.3062



19.9481, 0.3899, 0.4293



# Rectangle

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



19.9481, 0.2330, 0.3461



19.9481, 0.2072, 0.2611



19.9481, 0.3965, 0.3062



19.9481, 0.4301, 0.3817

# Sweetspot

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



19.9489, 0.2330, 0.3461



40.2108, 0.2787, 0.3334



18.5207, 0.3050, 0.5772



8.9209, 0.2751, 0.3340



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290



# Same Dimension

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



19.9489, 0.2330, 0.3461



34.8033, 0.2306, 0.3500



9.1951, 0.1974, 0.2135



5.6828, 0.3000, 0.3305



18.1088, 0.2304, 0.3494



0.1211, 0.2273, 0.3383



# Inverse Universe

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



6.0356, 0.5847, 0.3215



9.5513, 0.6325, 0.3258



9.8200, 0.5212, 0.3999



5.0538, 0.3270, 0.3275



4.9740, 0.6295, 0.3241



0.0337, 0.5845, 0.2994



# Previews

## White Background



This preview shows how the Yxy color 19.9481, 0.2330, 0.3461 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 19.9481, 0.2330, 0.3461 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

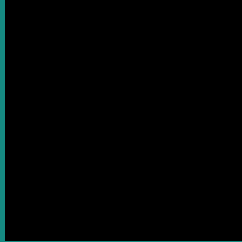
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.9481, 0.2330, 0.3461**

## Background



This preview shows how black text looks on a background with the Yxy color 19.9481, 0.2330, 0.3461.



This preview shows how white text looks on a background with the Yxy color 19.9481, 0.2330, 0.3461.

# 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

19.9481, 0.2330, 0.3461

### Protanopia

19.6595, 0.3176, 0.3309

### Deuteranopia

19.5820, 0.3078, 0.3021



## Tritanopia

20.1082, 0.2260, 0.3063

# Trichromacy



## Original Color

19.9481, 0.2330, 0.3461



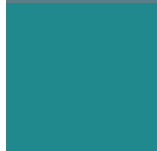
## Protanomaly

18.9198, 0.2724, 0.3371



## Deuteranomaly

18.7888, 0.2666, 0.3148



## Tritanomaly

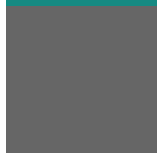
20.1057, 0.2282, 0.3204

# Monochromacy



## Original Color

19.9481, 0.2330, 0.3461



## Achromatopsia

13.2868, 0.3127, 0.3290



## Achromatomaly

14.8478, 0.2669, 0.3357

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.9481, 0.2330, 0.3461 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(21, 138, 130)` looks like.

```
.text, #text, p{  
    color:rgb(21, 138, 130)  
}
```

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(21, 138, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 138, 130) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9481, 0.2330, 0.3461 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(21, 138, 130) }
```

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

```
.border{ border-color:rgb(21, 138, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(21, 138, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 138, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 138, 130);  
box-shadow:4px 4px 4px 4px rgb(21, 138,  
130) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9481, 0.2330, 0.3461 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 138, 130) }
```

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

```
.background{ background-color: rgb(21, 138,  
130) }
```

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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