

# Converting Colors

$Y_{xy}(56.8740, 0.2375, 0.3697)$

Have a look what the booklet for  
Yxy(56.8740, 0.2375, 0.3697)  
contains.

<b>Yxy(56.8976, 0.2373, 0.3691)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(56.8976, 0.2373, 0.3691)**

# Conversions

## Conversions Part 1

Format	Color
Hex	16DFC3
RGB	22, 223, 195
RGB Percent	9%, 87%, 76%
CMY	0.9119, 0.1254, 0.2354
CMYK	0.90, 0.00, 0.13, 0.13
HSL	172°, 82%, 48%
HSV	172°, 90%, 87%
XYZ	36.5803, 56.8976, 60.6743
YIQ	159.7090, -110.8080, -51.3200

# Conversions

## Conversions Part 2

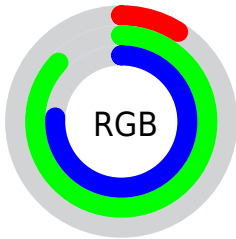
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	22, 130, 223
Decimal	1499075
CIE Lab	80.12, -50.62, 1.15
CIE LCh	80, 50.635, 178.702
Yxy	56.8976, 0.2373, 0.3691
Android (android.graphics.Color)	4279689155 (0xFF16DFC3)
YUV	159.7090, 17.3985, -120.7708
Hunter-Lab	75.4305, -45.4391, 5.1100

# Details

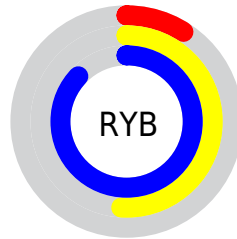
The Yxy color **56.8976, 0.2373, 0.3691** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle washed cyan. A complement of this color would be **16.5167, 0.5972, 0.3149**, and the grayscale version is **35.0398, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9957, 0.2439, 0.3334**, and **29.5605, 0.2385, 0.3784** is the 20% darker color. If you saturate the color by 10%, you get **56.5854, 0.2372, 0.3740**, and if you desaturate by 10%, it is **57.4189, 0.2389, 0.3642**.

# Distribution



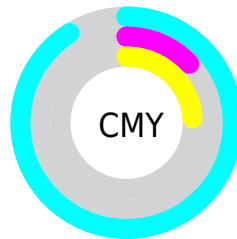
- Red (9%)
- Green (87%)
- Blue (76%)



- Red (9%)
- Yellow (51%)
- Blue (87%)



- Cyan (90%)
- Magenta (0%)
- Yellow (13%)
- Black (13%)




- Cyan (91%)
- Magenta (13%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.8976, 0.2373, 0.3691 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 56.8976, 0.2373, 0.3691 by changing the saturation by 10% instead.





 56.8976, 0.2373,  
0.3691


 56.8976, 0.2373,  
0.3691


413.0655, 0.2734,  
0.3498

 40.9230, 0.2288,  
0.3737

 100.3158, 0.2501,  
0.3623


 28.2589, 0.2182,  
0.3794


 128.5281, 0.2549,  
0.3596


 18.5210, 0.2045,  
0.3869


 161.5886, 0.2591,  
0.3574

 11.3246, 0.1864,  
0.3967

 199.8815, 0.2628,  
0.3555

 6.2856, 0.1616,  
0.4105

 243.7912, 0.2659,  
0.3538

 3.0195, 0.1258,  
0.4307

293.7022, 0.2687,

 1.1419, 0.0000,

0.3523

0.4981

349.9988, 0.2712,  
0.3510

■ 0.0135, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.8976, 0.2373,  
0.3691

■ 56.8976, 0.2373,  
0.3691

■ 56.5854, 0.2372,  
0.3740

■ 57.4189, 0.2389,  
0.3642

■ 56.5835, 0.2372,  
0.3740

■ 58.2073, 0.2424,  
0.3592

■ 59.3021, 0.2478,  
0.3543

■ 60.7345, 0.2552,  
0.3495

■ 62.5317, 0.2643,  
0.3448

■ 64.7183, 0.2748,  
0.3404

■ 67.3166, 0.2867,  
0.3363

■ 70.3474, 0.2994,  
0.3325

■ 73.8298, 0.3128,  
0.3290

# Harmonies

## Analogous

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



56.8976, 0.2929, 0.4290



56.8976, 0.2373, 0.3691



56.8976, 0.2038, 0.3014

# Triad

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



56.8976, 0.2373, 0.3691



56.8976, 0.2594, 0.2300



56.8976, 0.4427, 0.3872

# Complementary

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



56.8976, 0.2373, 0.3691



16.5167, 0.5972, 0.3149

# 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.



56.8976, 0.4349, 0.3371



56.8976, 0.2373, 0.3691



56.8976, 0.3222, 0.2516

# Square

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



56.8976, 0.2373, 0.3691



56.8976, 0.2159, 0.2291



56.8976, 0.3888, 0.2895



56.8976, 0.4125, 0.4304

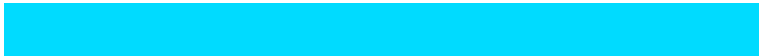


# Rectangle

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



56.8976, 0.2373, 0.3691



56.8976, 0.1963, 0.2658



56.8976, 0.3888, 0.2895



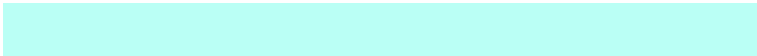
56.8976, 0.4447, 0.3707

# Sweetspot

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



56.8998, 0.2373, 0.3691



88.5935, 0.2780, 0.3393



53.5887, 0.3068, 0.5874



18.7202, 0.2740, 0.3407



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



56.8998, 0.2373, 0.3691



76.6534, 0.2373, 0.3744



28.2285, 0.1967, 0.2219



15.5377, 0.3000, 0.3323



33.2771, 0.2370, 0.3733



2.3158, 0.2349, 0.3657



# Inverse Universe

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



16.5167, 0.5972, 0.3149



21.3852, 0.6247, 0.3215



23.5184, 0.5605, 0.3825



13.7316, 0.3270, 0.3257



9.2927, 0.6209, 0.3194

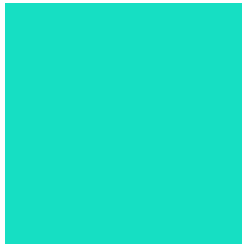


0.6542, 0.5846, 0.2994



# Previews

## White Background



This preview shows how the Yxy color 56.8976, 0.2373, 0.3691 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

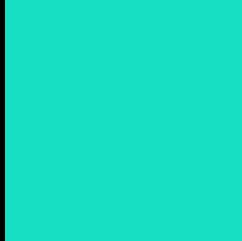
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.8976, 0.2373, 0.3691 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

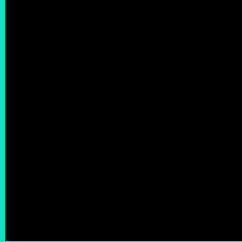
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

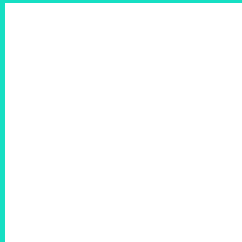
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.8976, 0.2373, 0.3691**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.8976, 0.2373, 0.3691.



This preview shows how white text looks on a background with the Yxy color 56.8976, 0.2373, 0.3691.

# 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

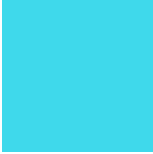
56.8861, 0.2372, 0.3691

### Protanopia

55.6125, 0.3313, 0.3484

### Deuteranopia

55.8220, 0.3231, 0.3163



## **Tritanopia**

56.6806, 0.2252, 0.3049

# Trichromacy



## Original Color

56.8861, 0.2372, 0.3691



## Protanomaly

53.0487, 0.2785, 0.3577



## Deuteranomaly

52.7647, 0.2734, 0.3342



## Tritanomaly

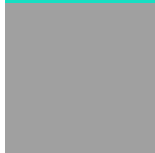
56.4587, 0.2289, 0.3274

# Monochromacy



## Original Color

56.8861, 0.2372, 0.3691



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

40.1991, 0.2647, 0.3443

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.8976, 0.2373, 0.3691 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(22, 223, 195)` looks like.

```
.text, #text, p{  
    color:rgb(22, 223, 195)  
}
```

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(22, 223, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 223, 195) }
```

## Border

The CSS property to change the border of an element to Yxy 56.8976, 0.2373, 0.3691 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(22, 223, 195) }
```

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

```
.border{ border-color:rgb(22, 223, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 223, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 223, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 223, 195);  
box-shadow:4px 4px 4px 4px rgb(22, 223,  
195) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.8976, 0.2373, 0.3691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 223, 195) }
```

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

```
.background{ background-color: rgb(22, 223,  
195) }
```

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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