

# Converting Colors

$Y_{xy}(55.8945, 0.2260, 0.3296)$

Have a look what the booklet for  
Yxy(55.8945, 0.2260, 0.3296)  
contains.

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# Color

**$\text{Yxy}(55.8737, 0.2261, 0.3301)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	14DBDA
RGB	20, 219, 218
RGB Percent	8%, 86%, 85%
CMY	0.9235, 0.1411, 0.1450
CMYK	0.91, 0.00, 0.00, 0.14
HSL	180°, 84%, 47%
HSV	180°, 91%, 86%
XYZ	38.2704, 55.8737, 75.1189
YIQ	159.3850, -118.2830, -42.4990

# Conversions

## Conversions Part 2

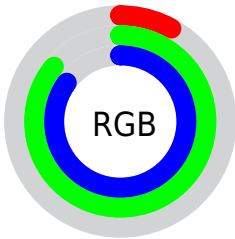
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 120, 219
Decimal	1367002
CIE <sub>Lab</sub>	79.54, -42.60, -12.00
CIE <sub>LCh</sub>	80, 44.261, 195.725
Yxy	55.8737, 0.2261, 0.3301
Android (android.graphics.Color)	4279557082 (0xFF14DBDA)
YUV	159.3850, 28.8972, -122.2406
Hunter-Lab	74.7487, -39.4206, -7.2595

# Details

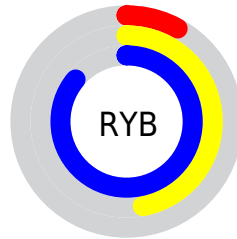
The Yxy color **55.8737, 0.2261, 0.3301** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **15.5971, 0.6253, 0.3296**, and the grayscale version is **34.6957, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **28.8387, 0.2247, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **55.7271, 0.2251, 0.3302**, and if you desaturate by 10%, it is **56.2177, 0.2285, 0.3300**.

# Distribution



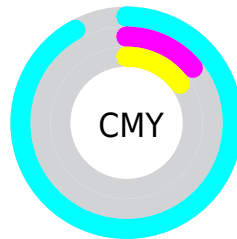
- Red (8%)
- Green (86%)
- Blue (85%)



- Red (8%)
- Yellow (47%)
- Blue (86%)



- Cyan (91%)
- Magenta (0%)
- Yellow (0%)
- Black (14%)




- Cyan (92%)
- Magenta (14%)
- Yellow (15%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 55.8737, 0.2261, 0.3301 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 55.8737, 0.2261, 0.3301 by changing the saturation by 10% instead.




 55.8737, 0.2261,  
0.3301


 55.8737, 0.2261,  
0.3301

 409.2154, 0.2668,  
0.3309


 40.1017, 0.2167,  
0.3296


 98.8199, 0.2403,  
0.3306


 27.6178, 0.2051,  
0.3287


 126.7628, 0.2458,  
0.3308


 18.0378, 0.1905,  
0.3273


 159.5315, 0.2506,  
0.3308

 10.9771, 0.1715,  
0.3247

 197.5104, 0.2547,  
0.3309

 6.0514, 0.1460,  
0.3201

 241.0838, 0.2583,  
0.3309

 2.8764, 0.1111,  
0.3106

 290.6362, 0.2615,

 1.0675, 0.0000,

0.3309

0.3084

346.5519, 0.2643,  
0.3309

■ 0.0000, 0.0000,  
0.0000

■ 55.8737, 0.2261,  
0.3301

■ 55.8737, 0.2261,  
0.3301

■ 55.7271, 0.2251,  
0.3302

■ 56.2177, 0.2285,  
0.3300

■ 56.8104, 0.2327,  
0.3298

■ 57.6903, 0.2389,  
0.3297

■ 58.8875, 0.2469,  
0.3295

■ 60.4286, 0.2569,  
0.3294

■ 62.3372, 0.2685,  
0.3293

■ 64.6349, 0.2816,  
0.3292

■ 67.3417, 0.2958,  
0.3291

■ 70.4762, 0.3110,  
0.3290

# Harmonies

## Analogous

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



55.8737, 0.2659, 0.3891



55.8737, 0.2261, 0.3301



55.8737, 0.2091, 0.2779

# Triad

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



55.8737, 0.2261, 0.3301



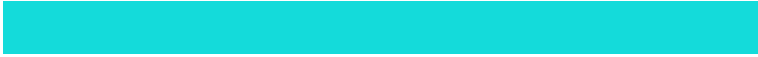
55.8737, 0.2960, 0.2493



55.8737, 0.4165, 0.4051

# Complementary

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



55.8737, 0.2261, 0.3301



15.5971, 0.6253, 0.3296

# 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.



55.8737, 0.4287, 0.3631



55.8737, 0.2261, 0.3301



55.8737, 0.3555, 0.2778

# Square

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



55.8737, 0.2261, 0.3301



55.8737, 0.2463, 0.2377



55.8737, 0.4061, 0.3180



55.8737, 0.3760, 0.4323



# Rectangle

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



55.8737, 0.2261, 0.3301



55.8737, 0.2111, 0.2544



55.8737, 0.4061, 0.3180



55.8737, 0.4242, 0.3920

# Sweetspot

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



55.8758, 0.2261, 0.3301



89.1762, 0.2734, 0.3292



50.8975, 0.3007, 0.5932



18.8602, 0.2690, 0.3293



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.



55.8758, 0.2261, 0.3301



78.6598, 0.2251, 0.3302



19.3218, 0.1842, 0.1771



14.8284, 0.2983, 0.3291



33.0405, 0.2251, 0.3302



2.1409, 0.2250, 0.3300



# Inverse Universe

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



15.5971, 0.6253, 0.3296



21.2627, 0.6397, 0.3298



27.5862, 0.5290, 0.4102



13.0526, 0.3291, 0.3289



8.9318, 0.6395, 0.3297

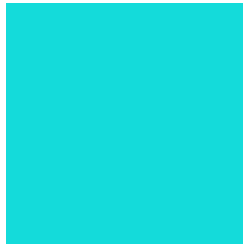


0.5790, 0.6378, 0.3287



# Previews

## White Background



This preview shows how the Yxy color 55.8737, 0.2261, 0.3301 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

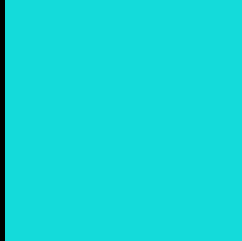
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.8737, 0.2261, 0.3301 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

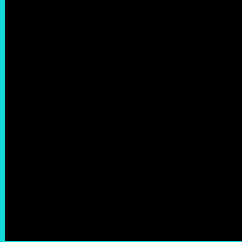
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

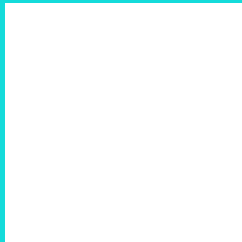
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 55.8737, 0.2261, 0.3301**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.8737, 0.2261, 0.3301.



This preview shows how white text looks on a background with the Yxy color 55.8737, 0.2261, 0.3301.

# 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

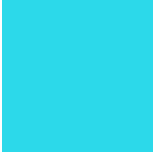
55.8737, 0.2261, 0.3301

### Protanopia

54.7657, 0.3085, 0.3182

### Deuteranopia

55.0609, 0.2965, 0.2907



## **Tritanopia**

56.1017, 0.2220, 0.3060

# Trichromacy



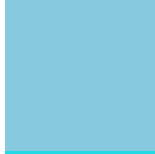
## Original Color

55.8737, 0.2261, 0.3301



## Protanomaly

52.1715, 0.2609, 0.3222



## Deuteranomaly

52.1981, 0.2545, 0.3015



## Tritanomaly

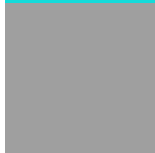
56.1016, 0.2234, 0.3152

# Monochromacy



## Original Color

55.8737, 0.2261, 0.3301



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

39.5312, 0.2586, 0.3304

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.8737, 0.2261, 0.3301 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(20, 219, 218)` looks like.

```
.text, #text, p{  
    color:rgb(20, 219, 218)  
}
```

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(20, 219, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 219, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 55.8737, 0.2261, 0.3301 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(20, 219, 218) }
```

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

```
.border{ border-color:rgb(20, 219, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 219, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 219, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 219, 218);  
box-shadow:4px 4px 4px 4px rgb(20, 219,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.8737, 0.2261, 0.3301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 219, 218) }
```

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

```
.background{ background-color: rgb(20, 219,  
218) }
```

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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