

# Converting Colors

$Y_{xy}(55.5095, 0.2210, 0.3111)$

Have a look what the booklet for  
Yxy(55.5095, 0.2210, 0.3111)  
contains.

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# Color

**$Y_{xy}(55.5210, 0.2210, 0.3111)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	17D9E6
RGB	23, 217, 230
RGB Percent	9%, 85%, 90%
CMY	0.9117, 0.1490, 0.0980
CMYK	0.90, 0.06, 0.00, 0.10
HSL	184°, 82%, 50%
HSV	184°, 90%, 90%
XYZ	39.4411, 55.5210, 83.5046
YIQ	160.4760, -119.7970, -37.0850

# Conversions

## Conversions Part 2

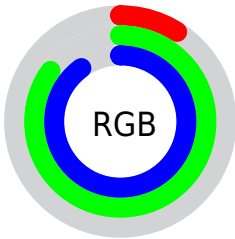
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	23, 123, 230
Decimal	1563110
CIE <sub>Lab</sub>	79.34, -38.01, -18.69
CIE <sub>LCh</sub>	79, 42.355, 206.183
Yxy	55.5210, 0.2210, 0.3111
Android (android.graphics.Color)	4279753190 (0xFF17D9E6)
YUV	160.4760, 34.2753, -120.5665
Hunter-Lab	74.5124, -35.9125, -14.2864

# Details

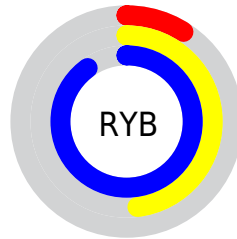
The Yxy color **55.5210, 0.2210, 0.3111** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **18.1169, 0.6181, 0.3352**, and the grayscale version is **35.2002, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **28.5849, 0.2178, 0.3039** is the 20% darker color. If you saturate the color by 10%, you get **54.6223, 0.2192, 0.3091**, and if you desaturate by 10%, it is **56.6622, 0.2243, 0.3132**.

# Distribution



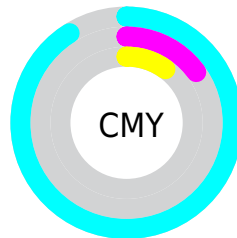
- Red (9%)
- Green (85%)
- Blue (90%)



- Red (9%)
- Yellow (48%)
- Blue (90%)



- Cyan (90%)
- Magenta (6%)
- Yellow (0%)
- Black (10%)




- Cyan (91%)
- Magenta (15%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.5210, 0.2210, 0.3111 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 55.5210, 0.2210, 0.3111 by changing the saturation by 10% instead.





 55.5210, 0.2210,  
0.3111


 55.5210, 0.2210,  
0.3111


407.8838, 0.2638,  
0.3213


 39.8190, 0.2112,  
0.3083


 98.3039, 0.2359,  
0.3150


 27.3975, 0.1992,  
0.3045


 126.1536, 0.2417,  
0.3164

 17.8719, 0.1842,  
0.2993


 158.8213, 0.2466,  
0.3176

 10.8581, 0.1648,  
0.2918

 196.6914, 0.2510,  
0.3186

 5.9715, 0.1392,  
0.2803

 240.1483, 0.2548,  
0.3194

 2.8278, 0.1049,  
0.2610

289.5764, 0.2581,

 1.0425, 0.0125,

0.3201

0.2369

345.3601, 0.2611,  
0.3208

■ 0.0000, 0.0000,  
0.0000

■ 55.5210, 0.2210,  
0.3111

■ 55.5210, 0.2210,  
0.3111

■ 54.6223, 0.2192,  
0.3091

■ 56.6622, 0.2243,  
0.3132

■ 58.0926, 0.2295,  
0.3154

■ 59.8545, 0.2366,  
0.3175

■ 61.9818, 0.2456,  
0.3196

■ 64.5040, 0.2563,  
0.3217

■ 67.4476, 0.2687,  
0.3237

■ 70.8368, 0.2824,  
0.3256

■ 74.6940, 0.2970,  
0.3273

■ 79.0399, 0.3124,  
0.3290

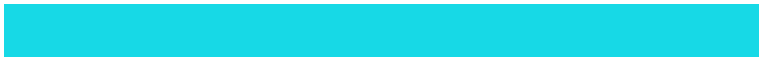
# Harmonies

## Analogous

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



55.5210, 0.2523, 0.3676



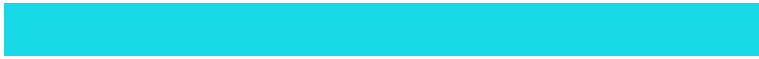
55.5210, 0.2210, 0.3111



55.5210, 0.2126, 0.2671

# Triad

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



55.5210, 0.2210, 0.3111



55.5210, 0.3164, 0.2602



55.5210, 0.4015, 0.4138

# Complementary

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



55.5210, 0.2210, 0.3111



18.1169, 0.6181, 0.3352

# 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.



55.5210, 0.4236, 0.3770



55.5210, 0.2210, 0.3111



55.5210, 0.3727, 0.2923

# Square

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



55.5210, 0.2210, 0.3111



55.5210, 0.2637, 0.2428



55.5210, 0.4135, 0.3336



55.5210, 0.3561, 0.4308

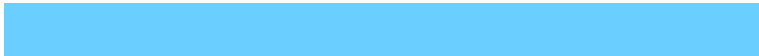


# Rectangle

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



55.5210, 0.2210, 0.3111



55.5210, 0.2200, 0.2494



55.5210, 0.4135, 0.3336



55.5210, 0.4120, 0.4030

# Sweetspot

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



55.5230, 0.2210, 0.3111



86.4778, 0.2727, 0.3243



56.8832, 0.2991, 0.5883



18.2105, 0.2682, 0.3236



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.



55.5230, 0.2210, 0.3111



68.9715, 0.2192, 0.3090



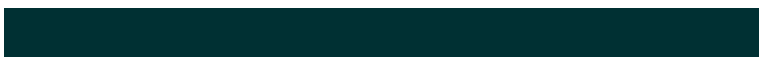
18.3561, 0.1790, 0.1575



16.1736, 0.2982, 0.3275



30.9901, 0.2193, 0.3094



2.3371, 0.2201, 0.3124



# Inverse Universe

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



22.4287, 0.3355, 0.1656



27.4939, 0.3376, 0.1633



34.6733, 0.5106, 0.4247



14.5988, 0.3147, 0.3073



12.3262, 0.3372, 0.1631

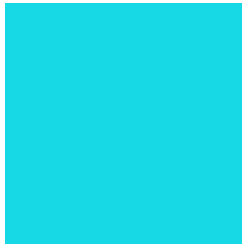


0.9156, 0.3346, 0.1617



# Previews

## White Background



This preview shows how the Yxy color 55.5210, 0.2210, 0.3111 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

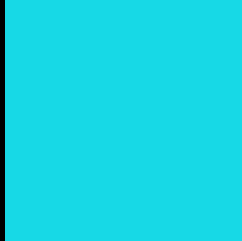
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.5210, 0.2210, 0.3111 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

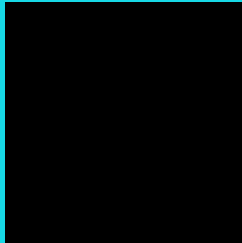
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.5210, 0.2210, 0.3111**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.5210, 0.2210, 0.3111.



This preview shows how white text looks on a background with the Yxy color 55.5210, 0.2210, 0.3111.

# 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

55.5210, 0.2210, 0.3111

### Protanopia

54.2527, 0.2960, 0.3026

### Deuteranopia

54.6552, 0.2825, 0.2769



## Tritanopia

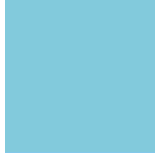
55.3283, 0.2198, 0.3045

# Trichromacy



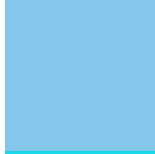
## Original Color

55.5210, 0.2210, 0.3111



## Protanomaly

52.1542, 0.2530, 0.3052



## Deuteranomaly

52.0744, 0.2459, 0.2854



## Tritanomaly

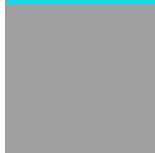
55.2279, 0.2199, 0.3058

# Monochromacy



## Original Color

55.5210, 0.2210, 0.3111



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

39.8655, 0.2568, 0.3228

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.5210, 0.2210, 0.3111 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(23, 217, 230)` looks like.

```
.text, #text, p{  
    color:rgb(23, 217, 230)  
}
```

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(23, 217, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 217, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 55.5210, 0.2210, 0.3111 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(23, 217, 230) }
```

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

```
.border{ border-color:rgb(23, 217, 230) }
```

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

Here you see how a box with a 4 pixel rgb(23, 217, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 217, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 217, 230);  
box-shadow:4px 4px 4px 4px rgb(23, 217,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.5210, 0.2210, 0.3111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 217, 230) }
```

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

```
.background{ background-color: rgb(23, 217,  
230) }
```

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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