

# Converting Colors

$Y_{xy}(54.8962, 0.2201, 0.2982)$

Have a look what the booklet for  
Yxy(54.8962, 0.2201, 0.2982)  
contains.

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# Color

**Yxy(54.7884, 0.2201, 0.2981)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2ED6ED
RGB	46, 214, 237
RGB Percent	18%, 84%, 93%
CMY	0.8201, 0.1607, 0.0706
CMYK	0.81, 0.10, 0.00, 0.07
HSL	187°, 84%, 55%
HSV	187°, 81%, 93%
XYZ	40.4526, 54.7884, 88.5510
YIQ	166.3900, -107.5110, -28.4630

# Conversions

## Conversions Part 2

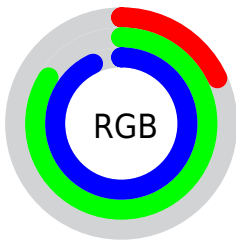
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	46, 135, 237
Decimal	3069677
CIE <sub>Lab</sub>	78.92, -33.03, -23.03
CIE <sub>LCh</sub>	79, 40.268, 214.885
Yxy	54.7884, 0.2201, 0.2981
Android (android.graphics.Color)	4281259757 (0xFF2ED6ED)
YUV	166.3900, 34.8107, -105.5820
Hunter-Lab	74.0192, -31.9806, -19.1167

# Details

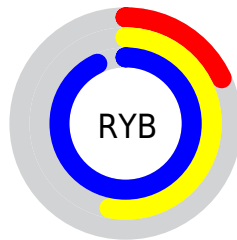
The Yxy color **54.7884, 0.2201, 0.2981** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **22.4358, 0.5784, 0.3458**, and the grayscale version is **38.1823, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1000, 0.2464, 0.3288**, and **28.1325, 0.2140, 0.2903** is the 20% darker color. If you saturate the color by 10%, you get **52.9555, 0.2162, 0.2939**, and if you desaturate by 10%, it is **56.9535, 0.2259, 0.3024**.

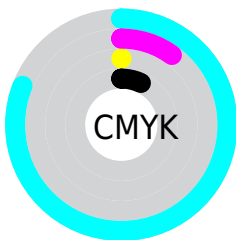
# Distribution



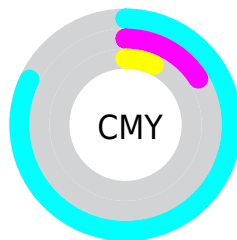
- Red (18%)
- Green (84%)
- Blue (93%)



- Red (18%)
- Yellow (53%)
- Blue (93%)



- Cyan (81%)
- Magenta (10%)
- Yellow (0%)
- Black (7%)



- Cyan (82%)
- Magenta (16%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.7884, 0.2201, 0.2981 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 54.7884, 0.2201, 0.2981 by changing the saturation by 10% instead.





 54.7884, 0.2201,  
0.2981


 54.7884, 0.2201,  
0.2981


405.1093, 0.2633,  
0.3145

 39.2323, 0.2103,  
0.2938


 97.2309, 0.2351,  
0.3042


 26.9405, 0.1982,  
0.2883


 124.8860, 0.2409,  
0.3065

 17.5286, 0.1831,  
0.2808


 157.3431, 0.2459,  
0.3084

 10.6121, 0.1638,  
0.2704

 194.9863, 0.2503,  
0.3100

 5.8066, 0.1383,  
0.2551

238.2001, 0.2542,  
0.3114

 2.7278, 0.1044,  
0.2310

287.3690, 0.2576,

 0.9914, 0.0262,

0.3126

0.1969

342.8773, 0.2606,  
0.3136

■ 0.0000, 0.0000,  
0.0000

■ 54.7884, 0.2201,  
0.2981

■ 54.7884, 0.2201,  
0.2981

■ 52.9555, 0.2162,  
0.2939

■ 56.9535, 0.2259,  
0.3024

■ 51.4679, 0.2139,  
0.2900

■ 59.4887, 0.2337,  
0.3066

■ 62.4327, 0.2433,  
0.3108

■ 65.8178, 0.2547,  
0.3148

■ 69.6726, 0.2675,  
0.3187

 74.0234, 0.2815,  
0.3223

 78.8944, 0.2963,  
0.3257

 84.3082, 0.3117,  
0.3288

 89.4881, 0.3246,  
0.3316

# Harmonies

## Analogous

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



54.7884, 0.2442, 0.3501



54.7884, 0.2201, 0.2981



54.7884, 0.2185, 0.2613

# Triad

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



54.7884, 0.2201, 0.2981



54.7884, 0.3323, 0.2707



54.7884, 0.3870, 0.4175

# Complementary

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



54.7884, 0.2201, 0.2981



22.4358, 0.5784, 0.3458

# 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.



54.7884, 0.4156, 0.3867



54.7884, 0.2201, 0.2981



54.7884, 0.3836, 0.3049

# Square

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



54.7884, 0.2201, 0.2981



54.7884, 0.2793, 0.2494



54.7884, 0.4151, 0.3460



54.7884, 0.3396, 0.4251

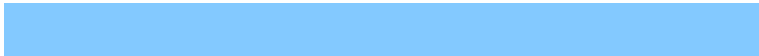


# Rectangle

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



54.7884, 0.2201, 0.2981



54.7884, 0.2299, 0.2483



54.7884, 0.4151, 0.3460



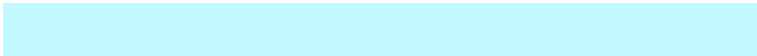
54.7884, 0.3992, 0.4091

# Sweetspot

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



54.7904, 0.2201, 0.2981



85.5785, 0.2765, 0.3211



61.5568, 0.2959, 0.5613



17.9251, 0.2715, 0.3198



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

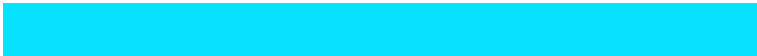


# Same Dimension

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



54.7904, 0.2201, 0.2981



61.2638, 0.2145, 0.2911



19.9170, 0.1832, 0.1585



16.7947, 0.2981, 0.3261



28.2330, 0.2141, 0.2907



2.3042, 0.2157, 0.2965



# Inverse Universe

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



24.8018, 0.3463, 0.1788



26.8769, 0.3533, 0.1728



44.6511, 0.4772, 0.4381



15.2808, 0.3156, 0.3085



12.3430, 0.3537, 0.1722

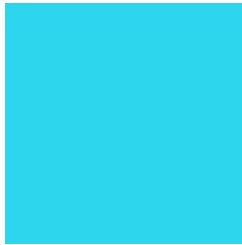


0.9780, 0.3485, 0.1694



# Previews

## White Background



This preview shows how the Yxy color 54.7884, 0.2201, 0.2981 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

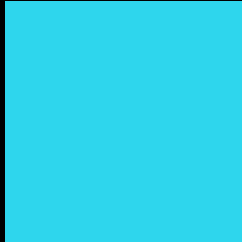
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 54.7884, 0.2201, 0.2981 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

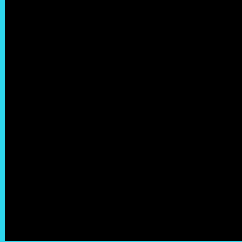
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 54.7884, 0.2201, 0.2981**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.7884, 0.2201, 0.2981.



This preview shows how white text looks on a background with the Yxy color 54.7884, 0.2201, 0.2981.

# 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

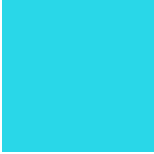
54.7884, 0.2201, 0.2981

### Protanopia

53.7920, 0.2889, 0.2931

### Deuteranopia

53.9291, 0.2751, 0.2688



## Tritanopia

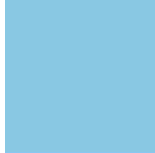
54.8985, 0.2216, 0.3058

# Trichromacy



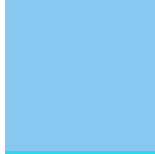
## Original Color

54.7884, 0.2201, 0.2981



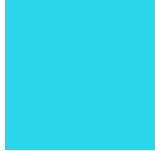
## Protanomaly

52.1730, 0.2528, 0.2941



## Deuteranomaly

52.3724, 0.2453, 0.2774



## Tritanomaly

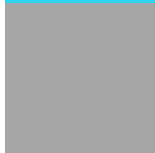
55.0550, 0.2211, 0.3032

# Monochromacy



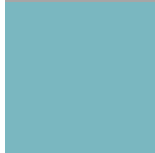
## Original Color

54.7884, 0.2201, 0.2981



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

41.8103, 0.2604, 0.3158

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.7884, 0.2201, 0.2981 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(46, 214, 237)` looks like.

```
.text, #text, p{  
    color:rgb(46, 214, 237)  
}
```

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(46, 214, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 214, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 54.7884, 0.2201, 0.2981 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(46, 214, 237) }
```

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

```
.border{ border-color:rgb(46, 214, 237) }
```

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

Here you see how a box with a 4 pixel rgb(46, 214, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 214, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 214, 237);  
box-shadow:4px 4px 4px 4px rgb(46, 214,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.7884, 0.2201, 0.2981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 214, 237) }
```

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

```
.background{ background-color: rgb(46, 214,  
237) }
```

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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