

# Converting Colors

$Y_{xy}(51.8080, 0.2175, 0.2935)$

Have a look what the booklet for  
Yxy(51.8080, 0.2175, 0.2935)  
contains.

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# Color

**Yxy(51.9742, 0.2175, 0.2935)**

# Conversions

## Conversions Part 1

Format	Color
Hex	24D1EB
RGB	36, 209, 235
RGB Percent	14%, 82%, 92%
CMY	0.8598, 0.1803, 0.0785
CMYK	0.85, 0.11, 0.00, 0.08
HSL	188°, 83%, 53%
HSV	188°, 85%, 92%
XYZ	38.5158, 51.9742, 86.5942
YIQ	160.2370, -111.4540, -28.5900

# Conversions

## Conversions Part 2

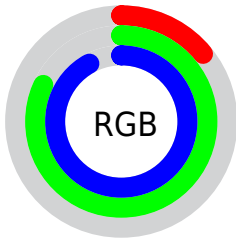
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	36, 129, 235
Decimal	2413035
CIE <sub>Lab</sub>	77.27, -32.00, -24.50
CIE <sub>LCh</sub>	77, 40.303, 217.431
Yxy	51.9742, 0.2175, 0.2935
Android (android.graphics.Color)	4280603115 (0xFF24D1EB)
YUV	160.2370, 36.8582, -108.9558
Hunter-Lab	72.0931, -30.7992, -20.7506

# Details

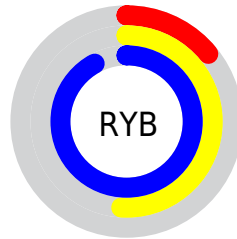
The Yxy color **51.9742, 0.2175, 0.2935** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **21.2040, 0.5917, 0.3458**, and the grayscale version is **35.1022, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **26.3659, 0.2123, 0.2842** is the 20% darker color. If you saturate the color by 10%, you get **50.1960, 0.2142, 0.2889**, and if you desaturate by 10%, it is **54.0614, 0.2227, 0.2981**.

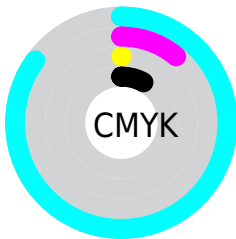
# Distribution



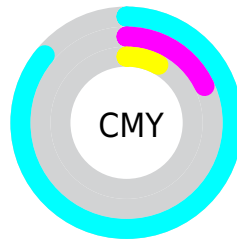
- Red (14%)
- Green (82%)
- Blue (92%)



- Red (14%)
- Yellow (51%)
- Blue (92%)



- Cyan (85%)
- Magenta (11%)
- Yellow (0%)
- Black (8%)



- Cyan (86%)
- Magenta (18%)
- Yellow (8%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 51.9742, 0.2175, 0.2935 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 51.9742, 0.2175, 0.2935 by changing the saturation by 10% instead.





 51.9742, 0.2175,  
0.2935


 51.9742, 0.2175,  
0.2935

 394.3370, 0.2622,  
0.3123

 36.9845, 0.2073,  
0.2886


 93.0932, 0.2331,  
0.3005

 25.1955, 0.1947,  
0.2823


 119.9913, 0.2391,  
0.3031

 16.2228, 0.1789,  
0.2737


 151.6276, 0.2443,  
0.3053


 9.6819, 0.1586,  
0.2618

 188.3866, 0.2488,  
0.3071

 5.1886, 0.1320,  
0.2443

 230.6527, 0.2528,  
0.3087

 2.3583, 0.0966,  
0.2169

 278.8101, 0.2563,

 0.8043, 0.0000,

0.3101

0.1797

333.2435, 0.2594,  
0.3113

■ 0.0000, 0.0000,  
0.0000

■ 51.9742, 0.2175,  
0.2935

■ 51.9742, 0.2175,  
0.2935

■ 50.1960, 0.2142,  
0.2889

■ 54.0614, 0.2227,  
0.2981

■ 49.3504, 0.2129,  
0.2866

■ 56.4991, 0.2298,  
0.3028

■ 59.3277, 0.2388,  
0.3073

■ 62.5805, 0.2496,  
0.3118

■ 66.2867, 0.2619,  
0.3161

■ 70.4732, 0.2755,  
0.3202

■ 75.1645, 0.2901,  
0.3239

■ 80.3833, 0.3053,  
0.3274

■ 86.1509, 0.3209,  
0.3306

# Harmonies

## Analogous

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



51.9742, 0.2400, 0.3457



51.9742, 0.2175, 0.2935



51.9742, 0.2179, 0.2578

# Triad

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



51.9742, 0.2175, 0.2935



51.9742, 0.3374, 0.2722



51.9742, 0.3847, 0.4209

# Complementary

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



51.9742, 0.2175, 0.2935



21.2040, 0.5917, 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.



51.9742, 0.4160, 0.3908



51.9742, 0.2175, 0.2935



51.9742, 0.3887, 0.3077

# Square

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



51.9742, 0.2175, 0.2935



51.9742, 0.2829, 0.2493



51.9742, 0.4183, 0.3497



51.9742, 0.3354, 0.4261

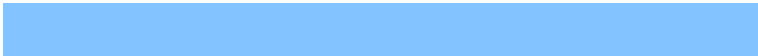


# Rectangle

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



51.9742, 0.2175, 0.2935



51.9742, 0.2306, 0.2459



51.9742, 0.4183, 0.3497



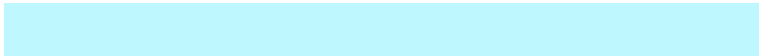
51.9742, 0.3977, 0.4129

# Sweetspot

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



51.9761, 0.2175, 0.2935



84.6589, 0.2751, 0.3200



60.1000, 0.2961, 0.5702



17.7268, 0.2701, 0.3186



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

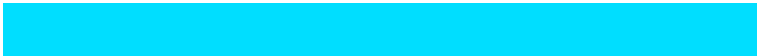


# Same Dimension

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



51.9761, 0.2175, 0.2935



59.3284, 0.2129, 0.2864



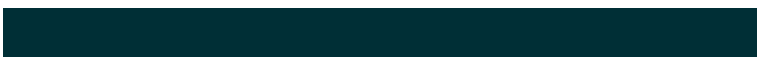
17.9860, 0.1787, 0.1493



16.7672, 0.2981, 0.3258



27.6015, 0.2131, 0.2873



2.2607, 0.2149, 0.2936



# Inverse Universe

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



23.5125, 0.3506, 0.1777



26.5204, 0.3576, 0.1744



42.4530, 0.4849, 0.4389



15.2780, 0.3158, 0.3088



12.2792, 0.3568, 0.1739

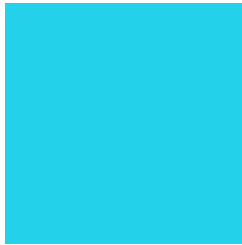


0.9736, 0.3511, 0.1708



# Previews

## White Background



This preview shows how the Yxy color 51.9742, 0.2175, 0.2935 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

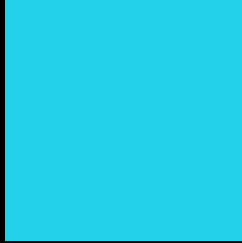
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.9742, 0.2175, 0.2935 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

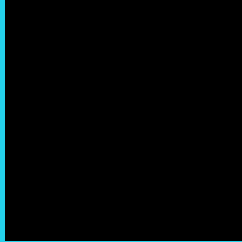
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.9742, 0.2175, 0.2935**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.9742, 0.2175, 0.2935.



This preview shows how white text looks on a background with the Yxy color 51.9742, 0.2175, 0.2935.

# 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

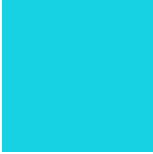
51.9742, 0.2175, 0.2935

### Protanopia

51.2010, 0.2856, 0.2900

### Deuteranopia

51.2328, 0.2710, 0.2653



## **Tritanopia**

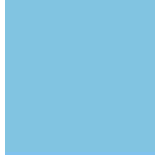
51.8098, 0.2194, 0.3052

# Trichromacy



## Original Color

51.9742, 0.2175, 0.2935



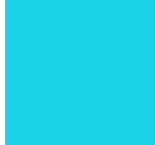
## Protanomaly

49.5832, 0.2485, 0.2907



## Deuteranomaly

49.3458, 0.2409, 0.2725



## Tritanomaly

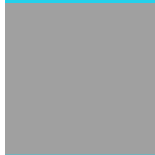
52.0394, 0.2187, 0.3013

# Monochromacy



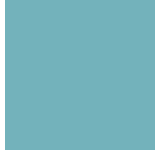
## Original Color

51.9742, 0.2175, 0.2935



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

39.0735, 0.2579, 0.3154

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.9742, 0.2175, 0.2935 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(36, 209, 235)` looks like.

```
.text, #text, p{  
    color:rgb(36, 209, 235)  
}
```

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(36, 209, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 209, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 51.9742, 0.2175, 0.2935 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(36, 209, 235) }
```

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

```
.border{ border-color:rgb(36, 209, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(36, 209, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 209, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 209, 235);  
box-shadow:4px 4px 4px 4px rgb(36, 209,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.9742, 0.2175, 0.2935 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 209, 235) }
```

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

```
.background{ background-color: rgb(36, 209,  
235) }
```

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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