

# Converting Colors

$Y_{xy}(41.8860, 0.2155, 0.2730)$

Have a look what the booklet for  
Yxy(41.8860, 0.2155, 0.2730)  
contains.

<b>Yxy(41.8159, 0.2156, 0.2731)</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(41.8159, 0.2156, 0.2731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	36BBE2
RGB	54, 187, 226
RGB Percent	21%, 73%, 89%
CMY	0.7890, 0.2666, 0.1137
CMYK	0.76, 0.17, 0.00, 0.11
HSL	194°, 75%, 55%
HSV	194°, 76%, 89%
XYZ	33.0117, 41.8159, 78.2881
YIQ	151.6790, -91.7870, -16.0670

# Conversions

## Conversions Part 2

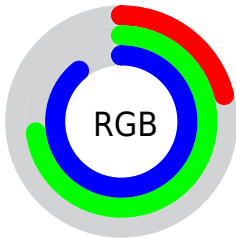
Format	Color
R <sub>YB</sub>	54, 129, 226
Decimal	3587042
CIE Lab	70.74, -22.43, -29.62
CIE LCh	71, 37.152, 232.858
Yxy	41.8159, 0.2156, 0.2731
Android (android.graphics.Color)	4281777122 (0xFF36BBE2)
YUV	151.6790, 36.6403, -85.6645
Hunter-Lab	64.6652, -22.0394, -26.5148

# Details

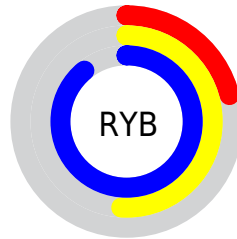
The Yxy color **41.8159, 0.2156, 0.2731** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **24.2286, 0.5410, 0.3649**, and the grayscale version is **31.1011, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.6812, 0.2436, 0.3149**, and **19.9905, 0.2051, 0.2582** is the 20% darker color. If you saturate the color by 10%, you get **39.1997, 0.2094, 0.2647**, and if you desaturate by 10%, it is **44.8023, 0.2238, 0.2815**.

# Distribution



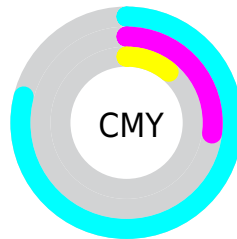
- Red (21%)
- Green (73%)
- Blue (89%)



- Red (21%)
- Yellow (51%)
- Blue (89%)



- Cyan (76%)
- Magenta (17%)
- Yellow (0%)
- Black (11%)



- Cyan (79%)
- Magenta (27%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.8159, 0.2156, 0.2731 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 41.8159, 0.2156, 0.2731 by changing the saturation by 10% instead.



41.8159, 0.2156,  
0.2731

41.8159, 0.2156,  
0.2731

353.7192, 0.2628,  
0.3024

28.9572, 0.2045,  
0.2656

77.9209, 0.2323,  
0.2840

19.0484, 0.1906,  
0.2558

101.9360, 0.2387,  
0.2880

11.7053, 0.1729,  
0.2428

130.4386, 0.2442,  
0.2913

6.5433, 0.1499,  
0.2247

163.8132, 0.2489,  
0.2942

3.1782, 0.1192,  
0.1983

202.4442, 0.2530,  
0.2967

1.2255, 0.0755,  
0.1588

246.7159, 0.2567,

0.0823, 0.0000,

0.2988

0.0294

297.0128, 0.2599,  
0.3007

0.0000, 0.0000,  
0.0000

41.8159, 0.2156,  
0.2731

41.8159, 0.2156,  
0.2731

39.1997, 0.2094,  
0.2647

44.8023, 0.2238,  
0.2815

36.9041, 0.2050,  
0.2564

48.1910, 0.2339,  
0.2898

36.0854, 0.2037,  
0.2532

52.0148, 0.2457,  
0.2978

56.3013, 0.2588,  
0.3055

61.0760, 0.2730,  
0.3127

■ 66.3617, 0.2879,  
0.3194

■ 72.1802, 0.3032,  
0.3255

■ 78.5514, 0.3186,  
0.3310

■ 85.0718, 0.3323,  
0.3361

# Harmonies

## Analogous

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



41.8159, 0.2264, 0.3177



41.8159, 0.2156, 0.2731



41.8159, 0.2275, 0.2485

# Triad

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



41.8159, 0.2156, 0.2731



41.8159, 0.3650, 0.2896



41.8159, 0.3604, 0.4267

# Complementary

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



41.8159, 0.2156, 0.2731



24.2286, 0.5410, 0.3649

# 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.



41.8159, 0.4022, 0.4078



41.8159, 0.2156, 0.2731



41.8159, 0.4067, 0.3290

# Square

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



41.8159, 0.2156, 0.2731



41.8159, 0.3103, 0.2597



41.8159, 0.4203, 0.3712



41.8159, 0.3078, 0.4148



# Rectangle

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



41.8159, 0.2156, 0.2731



41.8159, 0.2474, 0.2438



41.8159, 0.4203, 0.3712



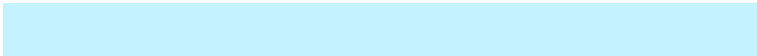
41.8159, 0.3762, 0.4233

# Sweetspot

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



41.8174, 0.2156, 0.2731



82.3399, 0.2774, 0.3148



55.9336, 0.2897, 0.5295



17.1033, 0.2721, 0.3123



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

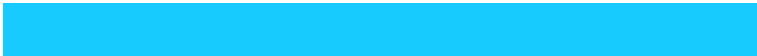


# Same Dimension

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



41.8174, 0.2156, 0.2731



49.8560, 0.2068, 0.2602



15.8912, 0.1824, 0.1446



15.0183, 0.2982, 0.3236



20.7712, 0.2040, 0.2545



1.5703, 0.2076, 0.2673



# Inverse Universe

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



22.3791, 0.3680, 0.1977



26.1566, 0.3818, 0.1911



47.9652, 0.4510, 0.4527



13.8797, 0.3172, 0.3110



11.0049, 0.3877, 0.1910

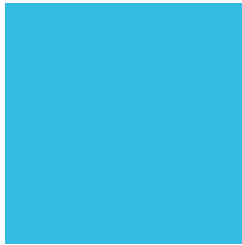


0.7760, 0.3753, 0.1841



# Previews

## White Background



This preview shows how the Yxy color 41.8159, 0.2156, 0.2731 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

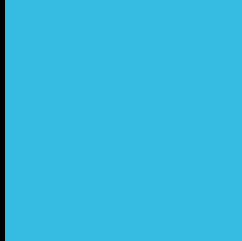
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.8159, 0.2156, 0.2731 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 41.8159, 0.2156, 0.2731**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.8159, 0.2156, 0.2731.



This preview shows how white text looks on a background with the Yxy color 41.8159, 0.2156, 0.2731.

# 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

41.8159, 0.2156, 0.2731

### Protanopia

41.1816, 0.2715, 0.2713

### Deuteranopia

41.1570, 0.2573, 0.2511



## Tritanopia

41.6232, 0.2211, 0.3046

# Trichromacy



**Original Color**

41.8159, 0.2156, 0.2731

**Protanomaly**

40.2502, 0.2436, 0.2708

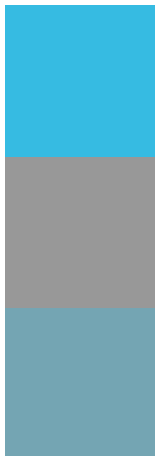
**Deuteranomaly**

40.6297, 0.2361, 0.2573

**Tritanomaly**

41.6707, 0.2189, 0.2932

# Monochromacy



**Original Color**

41.8159, 0.2156, 0.2731

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

33.8779, 0.2610, 0.3070

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.8159, 0.2156, 0.2731 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(54, 187, 226)` looks like.

```
.text, #text, p{  
    color:rgb(54, 187, 226)  
}
```

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(54, 187, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(54, 187, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 41.8159, 0.2156, 0.2731 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(54, 187, 226) }
```

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

```
.border{ border-color:rgb(54, 187, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(54, 187, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(54, 187, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(54, 187, 226);  
box-shadow:4px 4px 4px 4px rgb(54, 187,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.8159, 0.2156, 0.2731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(54, 187, 226) }
```

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

```
.background{ background-color: rgb(54, 187,  
226) }
```

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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