

# Converting Colors

$Y_{xy}(42.5396, 0.2143, 0.2748)$

Have a look what the booklet for  
Yxy(42.5396, 0.2143, 0.2748)  
contains.

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# Color

**Yxy(42.5221, 0.2143, 0.2746)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EBDE3
RGB	46, 189, 227
RGB Percent	18%, 74%, 89%
CMY	0.8203, 0.2588, 0.1097
CMYK	0.80, 0.17, 0.00, 0.11
HSL	193°, 76%, 53%
HSV	193°, 80%, 89%
XYZ	33.1846, 42.5221, 79.1444
YIQ	150.5750, -97.4260, -18.4980

# Conversions

## Conversions Part 2

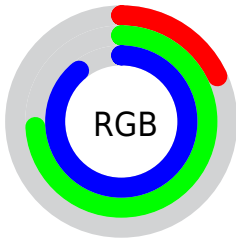
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">46, 126, 227</a>
Decimal	<a href="#">3063267</a>
CIELab	<a href="#">71.23, -23.91, -29.43</a>
CIELCh	<a href="#">71, 37.920, 230.904</a>
Yxy	<a href="#">42.5221, 0.2143, 0.2746</a>
Android (android.graphics.Color)	<a href="#">4281253347 (0xFF2EBDE3)</a>
YUV	<a href="#">150.5750, 37.6775, -91.7123</a>
Hunter-Lab	<a href="#">65.2090, -23.2778, -26.3142</a>

# Details

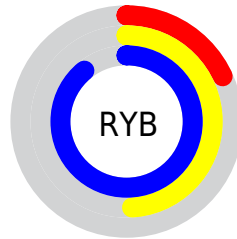
The Yxy color **42.5221, 0.2143, 0.2746** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **22.8424, 0.5583, 0.3609**, and the grayscale version is **30.6025, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.5898, 0.2426, 0.3172**, and **20.2682, 0.2056, 0.2603** is the 20% darker color. If you saturate the color by 10%, you get **40.1153, 0.2090, 0.2669**, and if you desaturate by 10%, it is **45.2772, 0.2216, 0.2823**.

# Distribution



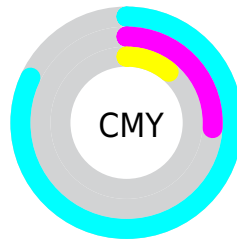
- Red (18%)
- Green (74%)
- Blue (89%)



- Red (18%)
- Yellow (49%)
- Blue (89%)



- Cyan (80%)
- Magenta (17%)
- Yellow (0%)
- Black (11%)




- Cyan (82%)
- Magenta (26%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.5221, 0.2143, 0.2746 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 42.5221, 0.2143, 0.2746 by changing the saturation by 10% instead.





 42.5221, 0.2143,  
0.2746


 42.5221, 0.2143,  
0.2746


356.6427, 0.2619,  
0.3032


 29.5103, 0.2031,  
0.2672


 78.9892, 0.2311,  
0.2852

 19.4672, 0.1892,  
0.2577


 103.2133, 0.2376,  
0.2891


 12.0084, 0.1715,  
0.2449


 131.9436, 0.2431,  
0.2924

 6.7494, 0.1485,  
0.2272

 165.5646, 0.2479,  
0.2952

 3.3059, 0.1180,  
0.2015

 204.4606, 0.2521,  
0.2976

 1.2934, 0.0751,  
0.1626

249.0160, 0.2558,

 0.1361, 0.0000,

0.2997

0.0461

299.6153, 0.2590,  
0.3015

0.0000, 0.0000,  
0.0000

42.5221, 0.2143,  
0.2746

42.5221, 0.2143,  
0.2746

40.1153, 0.2090,  
0.2669

45.2772, 0.2216,  
0.2823

37.9859, 0.2054,  
0.2593

48.4152, 0.2307,  
0.2900

37.9488, 0.2053,  
0.2591

51.9709, 0.2417,  
0.2975

55.9733, 0.2542,  
0.3047

60.4486, 0.2679,  
0.3115

■ 65.4208, 0.2824,  
0.3179

■ 70.9120, 0.2976,  
0.3238

■ 76.9428, 0.3130,  
0.3291

■ 83.5327, 0.3284,  
0.3339

# Harmonies

## Analogous

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



42.5221, 0.2267, 0.3209



42.5221, 0.2143, 0.2746



42.5221, 0.2249, 0.2483

# Triad

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



42.5221, 0.2143, 0.2746



42.5221, 0.3623, 0.2867



42.5221, 0.3642, 0.4277

# Complementary

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



42.5221, 0.2143, 0.2746



22.8424, 0.5583, 0.3609

# 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.



42.5221, 0.4055, 0.4068



42.5221, 0.2143, 0.2746



42.5221, 0.4062, 0.3262

# Square

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



42.5221, 0.2143, 0.2746



42.5221, 0.3066, 0.2573



42.5221, 0.4220, 0.3690



42.5221, 0.3112, 0.4181



# Rectangle

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



42.5221, 0.2143, 0.2746



42.5221, 0.2441, 0.2427



42.5221, 0.4220, 0.3690



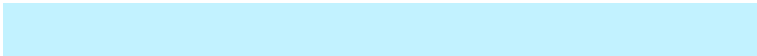
42.5221, 0.3800, 0.4236

# Sweetspot

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



42.5236, 0.2143, 0.2746



82.2645, 0.2760, 0.3152



56.1349, 0.2910, 0.5424



17.1171, 0.2708, 0.3129



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

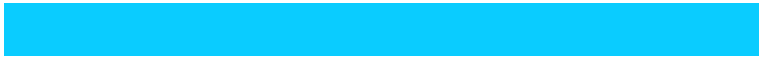


# Same Dimension

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



42.5236, 0.2143, 0.2746



50.3073, 0.2065, 0.2617



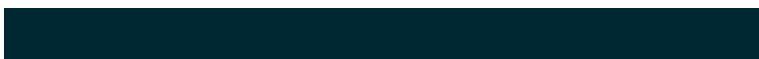
15.2713, 0.1787, 0.1395



15.7961, 0.2981, 0.3240



22.3020, 0.2056, 0.2603



1.7771, 0.2087, 0.2715



# Inverse Universe

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



21.9479, 0.3671, 0.1926



25.8245, 0.3806, 0.1883



46.2854, 0.4597, 0.4522



14.5607, 0.3170, 0.3106



11.4491, 0.3821, 0.1879

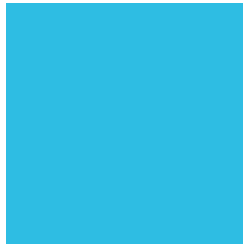


0.8591, 0.3714, 0.1820



# Previews

## White Background



This preview shows how the Yxy color 42.5221, 0.2143, 0.2746 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

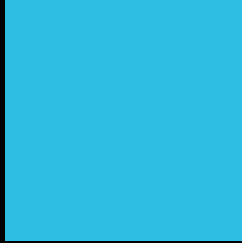
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.5221, 0.2143, 0.2746 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 42.5221, 0.2143, 0.2746**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.5221, 0.2143, 0.2746.



This preview shows how white text looks on a background with the Yxy color 42.5221, 0.2143, 0.2746.

# 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

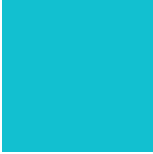
42.5221, 0.2143, 0.2746

### Protanopia

41.7674, 0.2731, 0.2729

### Deuteranopia

41.7881, 0.2583, 0.2516



## Tritanopia

42.3819, 0.2191, 0.3047

# Trichromacy



## Original Color

42.5221, 0.2143, 0.2746



## Protanomaly

40.9483, 0.2424, 0.2723



## Deuteranomaly

40.9394, 0.2347, 0.2574



## Tritanomaly

42.4148, 0.2170, 0.2933

# Monochromacy



## Original Color

42.5221, 0.2143, 0.2746



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

33.6757, 0.2588, 0.3069

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.5221, 0.2143, 0.2746 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, 189, 227)` looks like.

```
.text, #text, p{  
  color:rgb(46, 189, 227)  
}
```

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, 189, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 189, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 42.5221, 0.2143, 0.2746 is called "border". The border property can be set on classes, ids or directly on the HTML element.

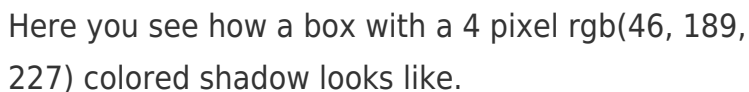
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(46, 189, 227) }
```

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

```
.border{ border-color:rgb(46, 189, 227) }
```

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



Here you see how a box with a 4 pixel `rgb(46, 189, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 189, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 189, 227);  
box-shadow:4px 4px 4px 4px rgb(46, 189,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.5221, 0.2143, 0.2746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 189, 227) }
```

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

```
.background{ background-color: rgb(46, 189,  
227) }
```

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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