

# Converting Colors

$Y_{xy}(47.6603, 0.2225, 0.2840)$

Have a look what the booklet for  
Yxy(47.6603, 0.2225, 0.2840)  
contains.

<b>Yxy(47.5354, 0.2224, 0.2836)</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(47.5354, 0.2224, 0.2836)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48C6E7
RGB	72, 198, 231
RGB Percent	28%, 78%, 91%
CMY	0.7184, 0.2234, 0.0942
CMYK	0.69, 0.14, 0.00, 0.09
HSL	192°, 77%, 59%
HSV	192°, 69%, 91%
XYZ	37.2774, 47.5354, 82.8014
YIQ	164.0880, -85.6890, -16.4490

# Conversions

## Conversions Part 2

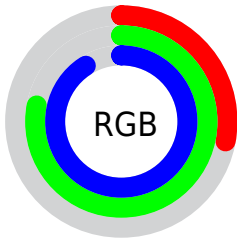
<b>Format</b>	<b>Color</b>
<b>RYB</b>	72, 142, 231
Decimal	4769511
CIELab	74.53, -24.23, -26.47
CIElCh	75, 35.880, 227.528
Yxy	47.5354, 0.2224, 0.2836
Android (android.graphics.Color)	4282959591 (0xFF48C6E7)
YUV	164.0880, 32.9876, -80.7612
Hunter-Lab	68.9459, -24.1447, -22.9429

# Details

The Yxy color **47.5354, 0.2224, 0.2836** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **27.5084, 0.5151, 0.3620**, and the grayscale version is **37.0151, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1433, 0.2512, 0.3288**, and **23.0417, 0.2088, 0.2716** is the 20% darker color. If you saturate the color by 10%, you get **44.6598, 0.2150, 0.2760**, and if you desaturate by 10%, it is **50.8165, 0.2317, 0.2912**.

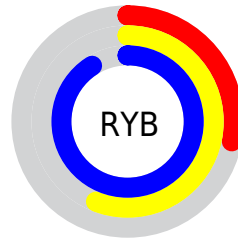
# Distribution



Red (28%)

Green (78%)

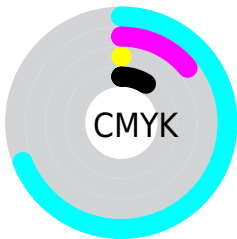
Blue (91%)



Red (28%)

Yellow (56%)

Blue (91%)

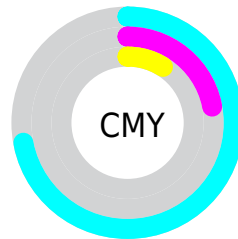


Cyan (69%)

Magenta (14%)

Yellow (0%)

Black (9%)



Cyan (72%)

Magenta (22%)


Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5354, 0.2224, 0.2836 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 47.5354, 0.2224, 0.2836 by changing the saturation by 10% instead.





 47.5354, 0.2224,  
0.2836


 47.5354, 0.2224,  
0.2836


376.9476, 0.2655,  
0.3072

 33.4591, 0.2123,  
0.2776


 86.5123, 0.2376,  
0.2923


 22.4784, 0.1999,  
0.2698


 112.1816, 0.2434,  
0.2955

 14.2088, 0.1841,  
0.2594


 142.4841, 0.2484,  
0.2983

 8.2661, 0.1635,  
0.2451

 177.8042, 0.2528,  
0.3006

 4.2657, 0.1361,  
0.2242

218.5261, 0.2566,  
0.3026

 1.8233, 0.0991,  
0.1919

265.0344, 0.2599,

 0.5016, 0.0000,

0.3043

0.1347

317.7135, 0.2629,  
0.3058

0.0000, 0.0000,  
0.0000

47.5354, 0.2224,  
0.2836

47.5354, 0.2224,  
0.2836

44.6598, 0.2150,  
0.2760

50.8165, 0.2317,  
0.2912

42.1443, 0.2096,  
0.2683

54.5320, 0.2428,  
0.2985


39.9295, 0.2059,  
0.2608


58.7137, 0.2554,  
0.3056


39.6984, 0.2056,  
0.2600


63.3886, 0.2691,  
0.3123

68.5816, 0.2838,  
0.3186

 74.3155, 0.2990,  
0.3243

 80.6117, 0.3144,  
0.3295

 87.1869, 0.3287,  
0.3343

 89.9830, 0.3282,  
0.3389

# Harmonies

## Analogous

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



47.5354, 0.2364, 0.3276



47.5354, 0.2224, 0.2836



47.5354, 0.2298, 0.2568

# Triad

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



47.5354, 0.2224, 0.2836



47.5354, 0.3525, 0.2866



47.5354, 0.3653, 0.4181

# Complementary

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



47.5354, 0.2224, 0.2836



27.5084, 0.5151, 0.3620

# 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.



47.5354, 0.4007, 0.3974



47.5354, 0.2224, 0.2836



47.5354, 0.3944, 0.3225

# Square

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



47.5354, 0.2224, 0.2836



47.5354, 0.3017, 0.2607



47.5354, 0.4122, 0.3620



47.5354, 0.3173, 0.4121



# Rectangle

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



47.5354, 0.2224, 0.2836



47.5354, 0.2462, 0.2499



47.5354, 0.4122, 0.3620



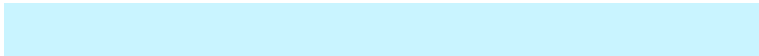
47.5354, 0.3791, 0.4136

# Sweetspot

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



47.5371, 0.2224, 0.2836



84.3474, 0.2805, 0.3172



59.5070, 0.2908, 0.5133



17.6621, 0.2764, 0.3155



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

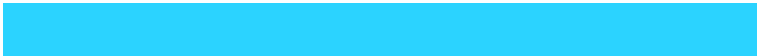


# Same Dimension

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



47.5371, 0.2224, 0.2836



54.4138, 0.2123, 0.2725



20.4661, 0.1938, 0.1671



15.8029, 0.2981, 0.3240



22.4422, 0.2059, 0.2612



1.7863, 0.2090, 0.2722



# Inverse Universe

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



25.6744, 0.3575, 0.2020



27.7250, 0.3695, 0.1901



51.4150, 0.4411, 0.4438



14.5614, 0.3169, 0.3106



11.4633, 0.3812, 0.1874

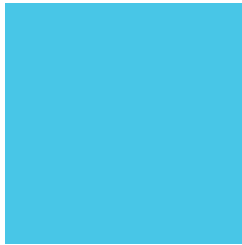


0.8600, 0.3707, 0.1816



# Previews

## White Background



This preview shows how the Yxy color 47.5354, 0.2224, 0.2836 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

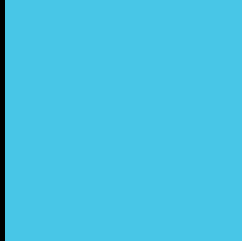
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.5354, 0.2224, 0.2836 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 47.5354, 0.2224, 0.2836**

## Background



This preview shows how black text looks on a background with the Yxy color 47.5354, 0.2224, 0.2836.

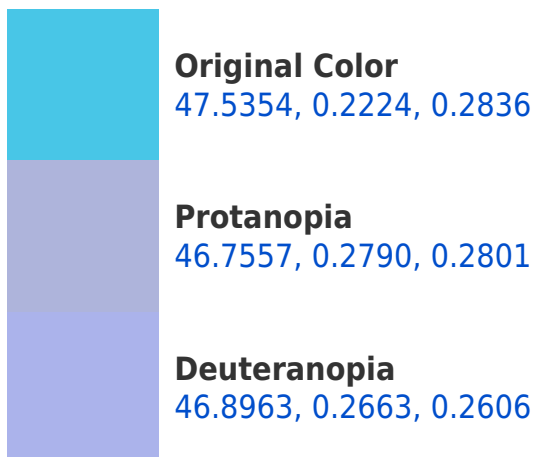


This preview shows how white text looks on a background with the Yxy color 47.5354, 0.2224, 0.2836.

# 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





## Tritanopia

47.3751, 0.2265, 0.3046

# Trichromacy



**Original Color**

47.5354, 0.2224, 0.2836

**Protanomaly**

46.1867, 0.2523, 0.2814

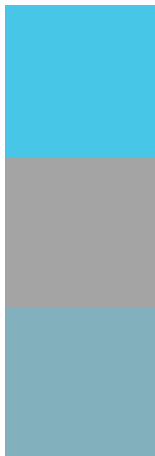
**Deuteranomaly**

46.2092, 0.2449, 0.2669

**Tritanomaly**

47.2790, 0.2248, 0.2965

# Monochromacy



**Original Color**

47.5354, 0.2224, 0.2836

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

39.4273, 0.2670, 0.3113

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.5354, 0.2224, 0.2836 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(72, 198, 231)` looks like.

```
.text, #text, p{  
    color:rgb(72, 198, 231)  
}
```

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(72, 198, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 198, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5354, 0.2224, 0.2836 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(72, 198, 231) }
```

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

```
.border{ border-color:rgb(72, 198, 231) }
```

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

Here you see how a box with a 4 pixel rgb(72, 198, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 198, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 198, 231);  
box-shadow:4px 4px 4px 4px rgb(72, 198,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5354, 0.2224, 0.2836 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 198, 231) }
```

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

```
.background{ background-color: rgb(72, 198,  
231) }
```

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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