

# Converting Colors

$Y_{xy}(47.7480, 0.2129, 0.2780)$

Have a look what the booklet for  
Yxy(47.7480, 0.2129, 0.2780)  
contains.

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# Color

**Yxy(47.7463, 0.2129, 0.2780)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21C8ED
RGB	33, 200, 237
RGB Percent	13%, 78%, 93%
CMY	0.8715, 0.2157, 0.0704
CMYK	0.86, 0.16, 0.00, 0.07
HSL	191°, 85%, 53%
HSV	191°, 86%, 93%
XYZ	36.5654, 47.7463, 87.4376
YIQ	154.2850, -111.4090, -23.8970

# Conversions

## Conversions Part 2

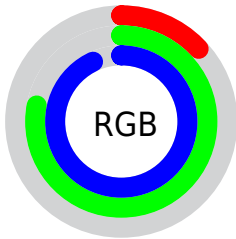
<b>Format</b>	<b>Color</b>
<b>RYB</b>	33, 125, 237
Decimal	2214125
CIELab	74.66, -27.15, -29.58
CIElCh	75, 40.150, 227.455
Yxy	47.7463, 0.2129, 0.2780
Android (android.graphics.Color)	4280404205 (0xFF21C8ED)
YUV	154.2850, 40.7785, -106.3669
Hunter-Lab	69.0987, -26.4647, -26.6565

# Details

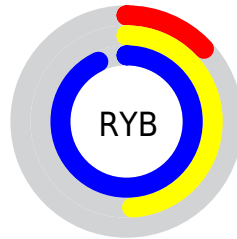
The Yxy color **47.7463, 0.2129, 0.2780** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **22.4730, 0.5874, 0.3531**, and the grayscale version is **32.2706, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **23.8940, 0.2072, 0.2659** is the 20% darker color. If you saturate the color by 10%, you get **45.5245, 0.2092, 0.2715**, and if you desaturate by 10%, it is **50.3012, 0.2185, 0.2846**.

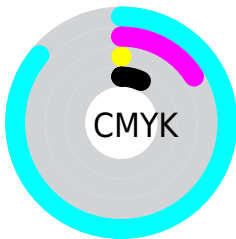
# Distribution



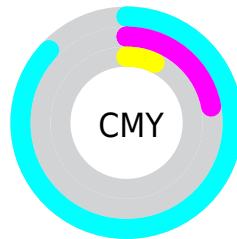
- Red (13%)
- Green (78%)
- Blue (93%)



- Red (13%)
- Yellow (49%)
- Blue (93%)



- Cyan (86%)
- Magenta (16%)
- Yellow (0%)
- Black (7%)




- Cyan (87%)
- Magenta (22%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.7463, 0.2129, 0.2780 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 47.7463, 0.2129, 0.2780 by changing the saturation by 10% instead.




 47.7463, 0.2129,  
0.2780


 47.7463, 0.2129,  
0.2780


377.7856, 0.2602,  
0.3045

 33.6260, 0.2020,  
0.2713


 86.8266, 0.2294,  
0.2878

 22.6064, 0.1886,  
0.2626


 112.5553, 0.2358,  
0.2914


 14.3032, 0.1718,  
0.2511


 142.9224, 0.2413,  
0.2945

 8.3318, 0.1502,  
0.2353

 178.3121, 0.2461,  
0.2971

 4.3080, 0.1220,  
0.2126

 219.1089, 0.2503,  
0.2993

 1.8473, 0.0851,  
0.1784

265.6971, 0.2540,

 0.5164, 0.0000,

0.3013

0.1204

318.4613, 0.2573,  
0.3030

■ 0.0000, 0.0000,  
0.0000

■ 47.7463, 0.2129,  
0.2780

■ 47.7463, 0.2129,  
0.2780

■ 45.5245, 0.2092,  
0.2715

■ 50.3012, 0.2185,  
0.2846

■ 44.7314, 0.2081,  
0.2690

■ 53.2346, 0.2260,  
0.2912

■ 56.5889, 0.2355,  
0.2977

■ 60.3987, 0.2467,  
0.3041

■ 64.6950, 0.2593,  
0.3102

■ 69.5057, 0.2732,  
0.3159

■ 74.8562, 0.2879,  
0.3213

■ 80.7705, 0.3031,  
0.3262

■ 87.2706, 0.3186,  
0.3307

# Harmonies

## Analogous

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



47.7463, 0.2281, 0.3270



47.7463, 0.2129, 0.2780



47.7463, 0.2210, 0.2488

# Triad

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



47.7463, 0.2129, 0.2780



47.7463, 0.3569, 0.2819



47.7463, 0.3708, 0.4285

# Complementary

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



47.7463, 0.2129, 0.2780



22.4730, 0.5874, 0.3531

# 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.



47.7463, 0.4106, 0.4043



47.7463, 0.2129, 0.2780



47.7463, 0.4040, 0.3211

# Square

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



47.7463, 0.2129, 0.2780



47.7463, 0.3000, 0.2536



47.7463, 0.4239, 0.3646



47.7463, 0.3174, 0.4228



# Rectangle

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



47.7463, 0.2129, 0.2780



47.7463, 0.2389, 0.2416



47.7463, 0.4239, 0.3646



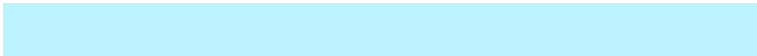
47.7463, 0.3862, 0.4231

# Sweetspot

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



47.7480, 0.2129, 0.2780



82.0908, 0.2733, 0.3160



61.3125, 0.2938, 0.5642



17.1326, 0.2684, 0.3140



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

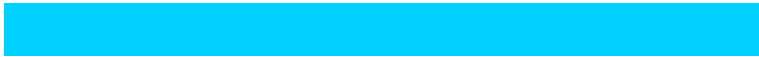


# Same Dimension

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



47.7480, 0.2129, 0.2780



52.7112, 0.2080, 0.2687



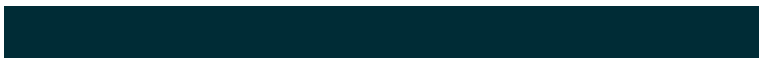
15.7141, 0.1736, 0.1328



16.6304, 0.2981, 0.3246



24.5906, 0.2084, 0.2701



2.0518, 0.2109, 0.2791



# Inverse Universe

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



23.2557, 0.3647, 0.1848



25.8524, 0.3740, 0.1834



46.4744, 0.4765, 0.4484



15.2642, 0.3166, 0.3099



11.9752, 0.3728, 0.1827

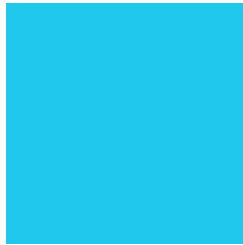


0.9525, 0.3643, 0.1780



# Previews

## White Background



This preview shows how the Yxy color 47.7463, 0.2129, 0.2780 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

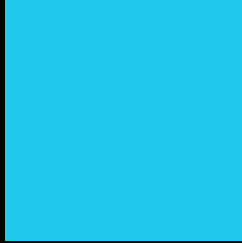
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.7463, 0.2129, 0.2780 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 47.7463, 0.2129, 0.2780**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.7463, 0.2129, 0.2780.



This preview shows how white text looks on a background with the Yxy color 47.7463, 0.2129, 0.2780.

# 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

47.7463, 0.2129, 0.2780

### Protanopia

46.7409, 0.2748, 0.2753

### Deuteranopia

46.8665, 0.2593, 0.2527



## Tritanopia

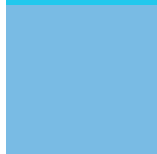
47.8263, 0.2183, 0.3058

# Trichromacy



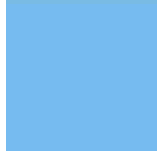
## Original Color

47.7463, 0.2129, 0.2780



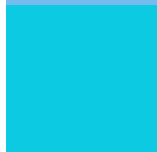
## Protanomaly

45.2070, 0.2405, 0.2741



## Deuteranomaly

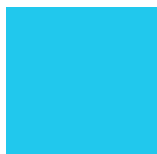
45.6835, 0.2331, 0.2599



## Tritanomaly

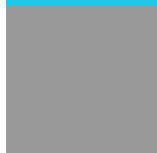
47.8102, 0.2159, 0.2949

# Monochromacy



## Original Color

47.7463, 0.2129, 0.2780



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

35.9015, 0.2550, 0.3088

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.7463, 0.2129, 0.2780 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(33, 200, 237)` looks like.

```
.text, #text, p{  
    color:rgb(33, 200, 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(33, 200, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 200, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 47.7463, 0.2129, 0.2780 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(33, 200, 237) }
```

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

```
.border{ border-color:rgb(33, 200, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 200, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 200, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 200, 237);  
box-shadow:4px 4px 4px 4px rgb(33, 200,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.7463, 0.2129, 0.2780 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 200, 237) }
```

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

```
.background{ background-color: rgb(33, 200,  
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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