

# Converting Colors

$Y_{xy}(71.7423, 0.2526, 0.3431)$

Have a look what the booklet for  
Yxy(71.7423, 0.2526, 0.3431)  
contains.

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# Color

**Yxy(71.9147, 0.2528, 0.3436)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78F0E4
RGB	120, 240, 228
RGB Percent	47%, 94%, 89%
CMY	0.5292, 0.0588, 0.1060
CMYK	0.50, 0.00, 0.05, 0.06
HSL	174°, 80%, 71%
HSV	174°, 50%, 94%
XYZ	52.9105, 71.9147, 84.4726
YIQ	202.7520, -67.6680, -29.1720

# Conversions

## Conversions Part 2

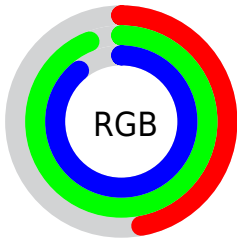
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 183, 240
Decimal	7925988
CIE <sub>Lab</sub>	87.93, -36.65, -4.59
CIE <sub>LCh</sub>	88, 36.938, 187.135
Yxy	71.9147, 0.2528, 0.3436
Android (android.graphics.Color)	4286116068 (0xFF78F0E4)
YUV	202.7520, 12.4473, -72.5735
Hunter-Lab	84.8025, -37.0337, 0.3025

# Details

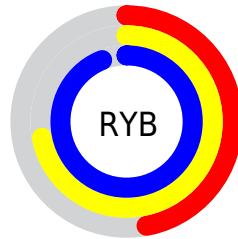
The Yxy color **71.9147, 0.2528, 0.3436** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **33.6366, 0.4403, 0.3163**, and the grayscale version is **59.5165, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.4433, 0.2701, 0.3289**, and **37.6963, 0.2386, 0.3452** is the 20% darker color. If you saturate the color by 10%, you get **70.2778, 0.2452, 0.3470**, and if you desaturate by 10%, it is **73.9891, 0.2622, 0.3403**.

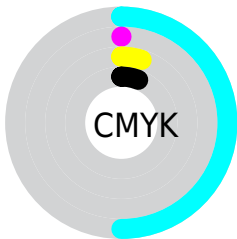
# Distribution



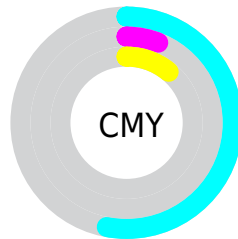
- Red (47%)
- Green (94%)
- Blue (89%)



- Red (47%)
- Yellow (72%)
- Blue (94%)



- Cyan (50%)
- Magenta (0%)
- Yellow (5%)
- Black (6%)




- Cyan (53%)
- Magenta (6%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.9147, 0.2528, 0.3436 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 71.9147, 0.2528, 0.3436 by changing the saturation by 10% instead.




 71.9147, 0.2528,  
0.3436


 71.9147, 0.2528,  
0.3436


467.2446, 0.2802,  
0.3373


 53.0890, 0.2466,  
0.3449


 121.9352, 0.2622,  
0.3415

 37.8738, 0.2391,  
0.3466

 153.8989, 0.2659,  
0.3406

 25.8848, 0.2296,  
0.3485

 191.0106, 0.2691,  
0.3399

 16.7375, 0.2173,  
0.3509

233.6549, 0.2719,  
0.3392

 10.0475, 0.2010,  
0.3538

282.2160, 0.2743,  
0.3387

 5.4305, 0.1782,  
0.3575

337.0784, 0.2765,

 2.5020, 0.1446,

0.3381

398.6265, 0.2785,  
0.3377

0.3616

0.8776, 0.0000,  
0.4010

0.0000, 0.0000,  
0.0000

71.9147, 0.2528,  
0.3436

71.9147, 0.2528,  
0.3436

70.2778, 0.2452,  
0.3470

73.9891, 0.2622,  
0.3403

69.0372, 0.2395,  
0.3505


76.5219, 0.2732,  
0.3372

68.1583, 0.2358,  
0.3540


79.5428, 0.2854,  
0.3342


67.5964, 0.2339,  
0.3574


83.0764, 0.2987,  
0.3315


 67.2767, 0.2336,  
0.3608

 87.1458, 0.3127,  
0.3290

 67.2762, 0.2336,  
0.3608

 90.0169, 0.3211,  
0.3267

 90.1627, 0.3196,  
0.3244

 90.3105, 0.3182,  
0.3220

 90.4602, 0.3167,  
0.3197

# Harmonies

## Analogous

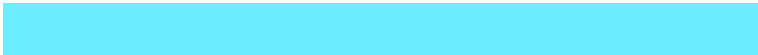
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



71.9147, 0.2887, 0.3850



71.9147, 0.2528, 0.3436



71.9147, 0.2332, 0.3009

# Triad

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



71.9147, 0.2528, 0.3436



71.9147, 0.2880, 0.2619



71.9147, 0.3982, 0.3812

# Complementary

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



71.9147, 0.2528, 0.3436



33.6366, 0.4403, 0.3163

# 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.



71.9147, 0.3993, 0.3471



71.9147, 0.2528, 0.3436



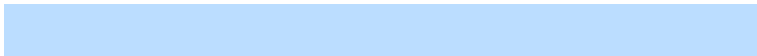
71.9147, 0.3330, 0.2812

# Square

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



71.9147, 0.2528, 0.3436



71.9147, 0.2524, 0.2575



71.9147, 0.3748, 0.3115



71.9147, 0.3732, 0.4049

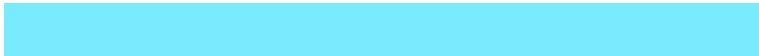


# Rectangle

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



71.9147, 0.2528, 0.3436



71.9147, 0.2310, 0.2788



71.9147, 0.3748, 0.3115



71.9147, 0.4015, 0.3705

# Sweetspot

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



71.9175, 0.2528, 0.3436



93.2089, 0.2919, 0.3328



68.7498, 0.3129, 0.4847



19.7701, 0.2891, 0.3334



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.



71.9175, 0.2528, 0.3436



80.6160, 0.2450, 0.3471



48.8788, 0.2360, 0.2696



17.9001, 0.2994, 0.3314



36.8387, 0.2334, 0.3603



3.0725, 0.2322, 0.3557



# Inverse Universe

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



33.6366, 0.4403, 0.3163



32.0551, 0.4835, 0.3149



47.1649, 0.4264, 0.3797



15.7846, 0.3278, 0.3267



10.1860, 0.6284, 0.3235

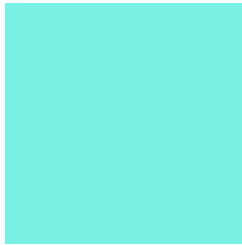


0.8560, 0.6036, 0.3099



# Previews

## White Background



This preview shows how the Yxy color 71.9147, 0.2528, 0.3436 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

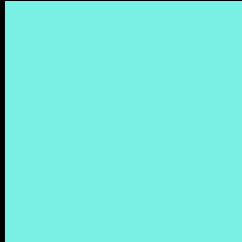
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.9147, 0.2528, 0.3436 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

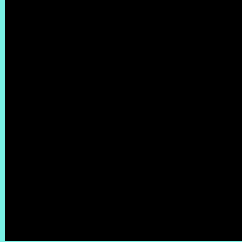
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.9147, 0.2528, 0.3436**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.9147, 0.2528, 0.3436.

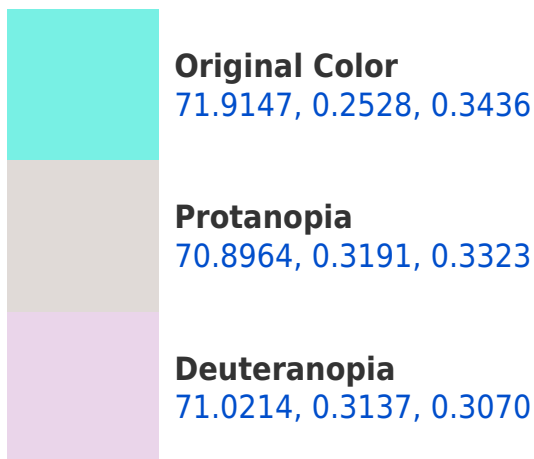


This preview shows how white text looks on a background with the Yxy color 71.9147, 0.2528, 0.3436.

# 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

71.8780, 0.2435, 0.3066

# Trichromacy



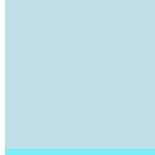
## Original Color

71.9147, 0.2528, 0.3436



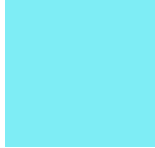
## Protanomaly

69.9991, 0.2897, 0.3359



## Deuteranomaly

69.9390, 0.2869, 0.3188



## Tritanomaly

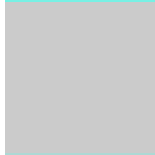
71.5966, 0.2469, 0.3193

# Monochromacy



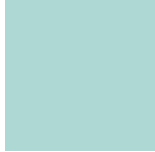
## Original Color

71.9147, 0.2528, 0.3436



## Achromatopsia

59.7202, 0.3127, 0.3290



## Achromatomaly

62.7494, 0.2855, 0.3338

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.9147, 0.2528, 0.3436 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(120, 240, 228)` looks like.

```
.text, #text, p{  
    color:rgb(120, 240, 228)  
}
```

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(120, 240, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 240, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 71.9147, 0.2528, 0.3436 is called "border". The border property can be set on classes, ids or directly on the HTML element.

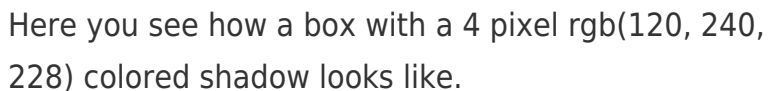
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(120, 240, 228) }
```

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

```
.border{ border-color:rgb(120, 240, 228) }
```

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



Here you see how a box with a 4 pixel `rgb(120, 240, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 240, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 240, 228);  
box-shadow:4px 4px 4px 4px rgb(120, 240,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.9147, 0.2528, 0.3436 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 240, 228) }
```

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

```
.background{ background-color: rgb(120,  
240, 228) }
```

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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