

# Converting Colors

$Y_{xy}(69.9300, 0.2526, 0.3430)$

Have a look what the booklet for  
Yxy(69.9300, 0.2526, 0.3430)  
contains.

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# Color

**Yxy(69.9813, 0.2526, 0.3425)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77EDE2
RGB	119, 237, 226
RGB Percent	47%, 93%, 89%
CMY	0.5335, 0.0705, 0.1138
CMYK	0.50, 0.00, 0.05, 0.07
HSL	174°, 77%, 70%
HSV	174°, 50%, 93%
XYZ	51.6125, 69.9813, 82.7312
YIQ	200.4640, -66.7970, -28.4370

# Conversions

## Conversions Part 2

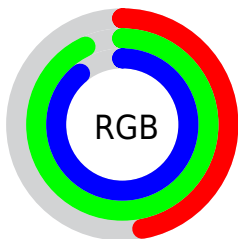
Format	Color
<a href="#">RYB</a>	<a href="#">119, 181, 237</a>
Decimal	<a href="#">7859682</a>
CIELab	<a href="#">86.99, -35.99, -4.94</a>
CIELCh	<a href="#">87, 36.329, 187.810</a>
Yxy	<a href="#">69.9813, 0.2526, 0.3425</a>
Android (android.graphics.Color)	<a href="#">4286049762</a> ( <a href="#">0xFF77EDE2</a> )
YUV	<a href="#">200.4640, 12.5892, -71.4439</a>
Hunter-Lab	<a href="#">83.6548, -36.2669, -0.0770</a>

# Details

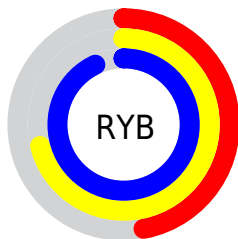
The Yxy color **69.9813, 0.2526, 0.3425** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **32.7989, 0.4406, 0.3173**, and the grayscale version is **58.0048, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.2050, 0.2691, 0.3289**, and **36.8002, 0.2389, 0.3454** is the 20% darker color. If you saturate the color by 10%, you get **68.3912, 0.2449, 0.3457**, and if you desaturate by 10%, it is **71.9964, 0.2621, 0.3395**.

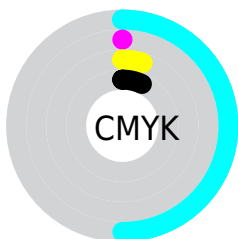
# Distribution



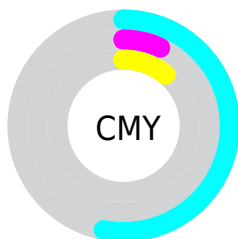
- Red (47%)
- Green (93%)
- Blue (89%)



- Red (47%)
- Yellow (71%)
- Blue (93%)



- Cyan (50%)
- Magenta (0%)
- Yellow (5%)
- Black (7%)




- Cyan (53%)
- Magenta (7%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.9813, 0.2526, 0.3425 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 69.9813, 0.2526, 0.3425 by changing the saturation by 10% instead.





 69.9813, 0.2526,  
0.3425

 69.9813, 0.2526,  
0.3425


460.4843, 0.2802,  
0.3367

 51.5113, 0.2464,  
0.3437


 119.1821, 0.2621,  
0.3406

 36.6157, 0.2387,  
0.3452


 150.6817, 0.2659,  
0.3398

 24.9101, 0.2290,  
0.3470


 187.2932, 0.2691,  
0.3391

 16.0101, 0.2166,  
0.3491

229.4011, 0.2719,  
0.3385

 9.5313, 0.1998,  
0.3517

277.3898, 0.2743,  
0.3380

 5.0893, 0.1764,  
0.3548

331.6436, 0.2765,

 2.2998, 0.1417,

0.3375

392.5470, 0.2785,  
0.3370

0.3580

0.7736, 0.0000,  
0.3910

0.0000, 0.0000,  
0.0000

69.9813, 0.2526,  
0.3425

69.9813, 0.2526,  
0.3425

68.3912, 0.2449,  
0.3457

71.9964, 0.2621,  
0.3395

67.1863, 0.2391,  
0.3489


74.4568, 0.2731,  
0.3365

66.3330, 0.2353,  
0.3521

77.3911, 0.2855,  
0.3338

65.7883, 0.2334,  
0.3553


80.8233, 0.2989,  
0.3313

 65.4807, 0.2329,  
0.3585


 84.7756, 0.3130,  
0.3290

 65.4757, 0.2329,  
0.3585

 88.0830, 0.3234,  
0.3268

 88.2147, 0.3220,  
0.3247

 88.3481, 0.3206,  
0.3225

 88.4831, 0.3192,  
0.3204

# Harmonies

## Analogous

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



69.9813, 0.2880, 0.3838



69.9813, 0.2526, 0.3425



69.9813, 0.2336, 0.3003

# Triad

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



69.9813, 0.2526, 0.3425



69.9813, 0.2891, 0.2626



69.9813, 0.3973, 0.3815

# Complementary

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



69.9813, 0.2526, 0.3425



32.7989, 0.4406, 0.3173

# 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.



69.9813, 0.3989, 0.3478



69.9813, 0.2526, 0.3425



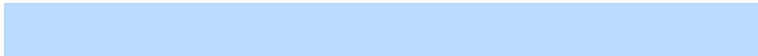
69.9813, 0.3338, 0.2821

# Square

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



69.9813, 0.2526, 0.3425



69.9813, 0.2534, 0.2579



69.9813, 0.3751, 0.3124



69.9813, 0.3720, 0.4047



# Rectangle

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



69.9813, 0.2526, 0.3425



69.9813, 0.2316, 0.2786



69.9813, 0.3751, 0.3124



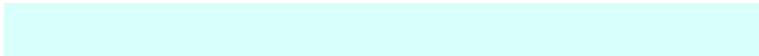
69.9813, 0.4007, 0.3709

# Sweetspot

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



69.9840, 0.2526, 0.3425



93.2256, 0.2918, 0.3326



66.7117, 0.3118, 0.4845



19.7741, 0.2889, 0.3331



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.



69.9840, 0.2526, 0.3425



80.6788, 0.2446, 0.3458



46.7679, 0.2357, 0.2672



17.0962, 0.2994, 0.3312



35.7538, 0.2328, 0.3580



2.8146, 0.2316, 0.3536



# Inverse Universe

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



32.7989, 0.4406, 0.3173



32.0303, 0.4849, 0.3159



46.6730, 0.4245, 0.3816



15.0769, 0.3278, 0.3268



9.8700, 0.6293, 0.3240

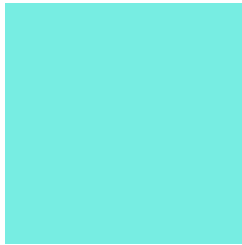


0.7828, 0.6046, 0.3104



# Previews

## White Background



This preview shows how the Yxy color 69.9813, 0.2526, 0.3425 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

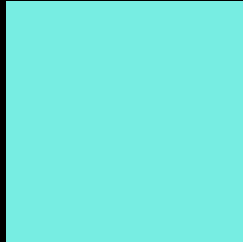
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.9813, 0.2526, 0.3425 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 69.9813, 0.2526, 0.3425**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.9813, 0.2526, 0.3425.



This preview shows how white text looks on a background with the Yxy color 69.9813, 0.2526, 0.3425.

# 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

69.9813, 0.2526, 0.3425

### Protanopia

68.7771, 0.3185, 0.3312

### Deuteranopia

68.9083, 0.3131, 0.3057



## Tritanopia

69.8181, 0.2433, 0.3063

# Trichromacy



## Original Color

69.9813, 0.2526, 0.3425



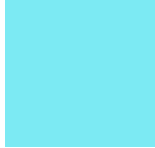
## Protanomaly

68.0277, 0.2894, 0.3348



## Deuteranomaly

67.8467, 0.2860, 0.3175



## Tritanomaly

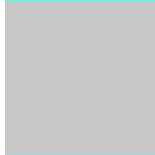
69.6018, 0.2463, 0.3180

# Monochromacy



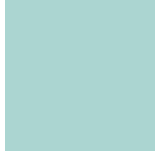
## Original Color

69.9813, 0.2526, 0.3425



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

60.8499, 0.2858, 0.3338

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.9813, 0.2526, 0.3425 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(119, 237, 226)` looks like.

```
.text, #text, p{  
    color:rgb(119, 237, 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(119, 237, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 237, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 69.9813, 0.2526, 0.3425 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(119, 237, 226) }
```

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

```
.border{ border-color:rgb(119, 237, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 237, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(119, 237, 226); -webkit-box-shadow:4px 4px 4px 4px rgb(119, 237, 226); box-shadow:4px 4px 4px 4px rgb(119, 237, 226) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.9813, 0.2526, 0.3425 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 237, 226) }
```

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

```
.background{ background-color: rgb(119,  
237, 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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