

# Converting Colors

$Y_{xy}(84.3990, 0.2525, 0.3717)$

Have a look what the booklet for  
Yxy(84.3990, 0.2525, 0.3717)  
contains.

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# Color

**Yxy(79.8946, 0.2510, 0.3641)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67FFE2
RGB	103, 255, 226
RGB Percent	40%, 100%, 89%
CMY	0.5962, 0.0000, 0.1138
CMYK	0.60, 0.00, 0.11, 0.00
HSL	169°, 100%, 70%
HSV	169°, 60%, 100%
XYZ	55.0770, 79.8946, 84.4588
YIQ	206.2460, -81.2830, -41.2430

# Conversions

## Conversions Part 2

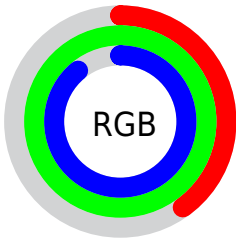
<b>Format</b>	<b>Color</b>
<b>RYB</b>	103, 187, 255
Decimal	6815714
CIELab	91.64, -47.10, 1.82
CIElCh	92, 47.139, 177.789
Yxy	79.8946, 0.2510, 0.3641
Android (android.graphics.Color)	4285005794 (0xFF67FFE2)
YUV	206.2460, 9.7387, -90.5467
Hunter-Lab	89.3838, -46.4324, 6.5455

# Details

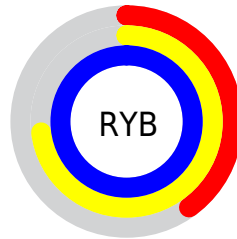
The Yxy color **79.8946, 0.2510, 0.3641** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **32.6221, 0.4638, 0.3011**, and the grayscale version is **61.8569, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.8470, 0.2633, 0.3289**, and **42.9179, 0.2369, 0.3710** is the 20% darker color. If you saturate the color by 10%, you get **78.3446, 0.2459, 0.3710**, and if you desaturate by 10%, it is **81.9077, 0.2580, 0.3573**.

# Distribution



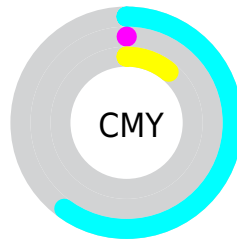
- Red (40%)
- Green (100%)
- Blue (89%)



- Red (40%)
- Yellow (73%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 79.8946, 0.2510, 0.3641 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 79.8946, 0.2510, 0.3641 by changing the saturation by 10% instead.




 79.8946, 0.2510,  
0.3641

 79.8946, 0.2510,  
0.3641


494.5776, 0.2789,  
0.3481

 59.6316, 0.2448,  
0.3677


 133.2175, 0.2606,  
0.3586

 43.1218, 0.2372,  
0.3721


 167.0463, 0.2643,  
0.3564

 29.9807, 0.2277,  
0.3776


 206.1657, 0.2676,  
0.3546

 19.8239, 0.2156,  
0.3848

250.9603, 0.2704,  
0.3529

 12.2671, 0.1995,  
0.3943

301.8144, 0.2729,  
0.3515

 6.9259, 0.1773,  
0.4077


359.1124, 0.2752,


 3.4158, 0.1452,


0.3502


0.4274


423.2386, 0.2772,  
0.3491


 1.3525, 0.0273,  
0.4941


 0.1813, 0.0000,  
0.7208


 79.8946, 0.2510,  
0.3641


 79.8946, 0.2510,  
0.3641

 78.3446, 0.2459,  
0.3710


 81.9077, 0.2580,  
0.3573


 77.2205, 0.2429,  
0.3781

 84.4278, 0.2667,  
0.3508


 76.4685, 0.2417,  
0.3851

 87.4871, 0.2769,  
0.3447

 76.0078, 0.2423,  
0.3920

 91.1165, 0.2882,  
0.3389

 75.9924, 0.2423,  
0.3923

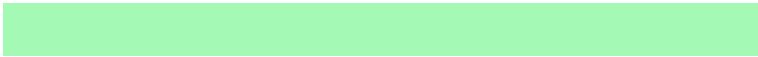
 95.3446, 0.3004,  
0.3336

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



79.8946, 0.2987, 0.4116



79.8946, 0.2510, 0.3641



79.8946, 0.2212, 0.3087

# Triad

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



79.8946, 0.2510, 0.3641



79.8946, 0.2669, 0.2444



79.8946, 0.4217, 0.3787

# Complementary

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



79.8946, 0.2510, 0.3641



32.6221, 0.4638, 0.3011

# 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.



79.8946, 0.4134, 0.3360



79.8946, 0.2510, 0.3641



79.8946, 0.3194, 0.2624

# Square

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



79.8946, 0.2510, 0.3641



79.8946, 0.2299, 0.2448



79.8946, 0.3746, 0.2949



79.8946, 0.3984, 0.4142



# Rectangle

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



79.8946, 0.2510, 0.3641



79.8946, 0.2139, 0.2782



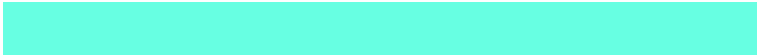
79.8946, 0.3746, 0.2949



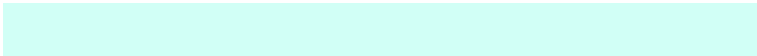
79.8946, 0.4227, 0.3648

# Sweetspot

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



79.8926, 0.2510, 0.3641



91.7585, 0.2901, 0.3380



77.5166, 0.3181, 0.5143



19.3951, 0.2867, 0.3396



0.0000, 0.0000, 0.0000

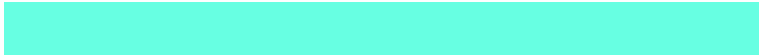


21.4041, 0.3127, 0.3290



# Same Dimension

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



79.8926, 0.2510, 0.3641



78.0399, 0.2450, 0.3727



55.8967, 0.2266, 0.2722



20.4185, 0.3006, 0.3336



39.7289, 0.2420, 0.3911



3.8829, 0.2398, 0.3832



# Inverse Universe

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



32.6221, 0.4638, 0.3011



26.8673, 0.5154, 0.3001



43.6027, 0.4673, 0.3748



18.0437, 0.3264, 0.3245



11.2393, 0.6103, 0.3136

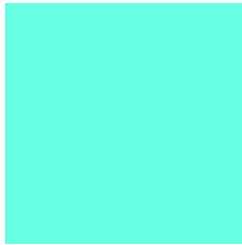


1.1086, 0.5810, 0.2974



# Previews

## White Background



This preview shows how the Yxy color 79.8946, 0.2510, 0.3641 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

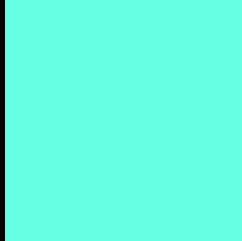
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 79.8946, 0.2510, 0.3641 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

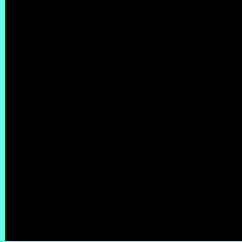
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

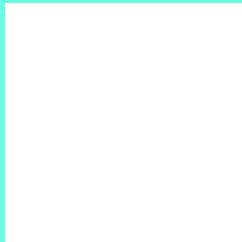
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 79.8946, 0.2510, 0.3641**

## **Background**



This preview shows how black text looks on a background with the Yxy color 79.8946, 0.2510, 0.3641.

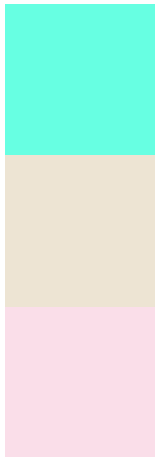


This preview shows how white text looks on a background with the Yxy color 79.8946, 0.2510, 0.3641.

# 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

79.8946, 0.2510, 0.3641

### Protanopia

78.1945, 0.3302, 0.3469

### Deuteranopia

78.4497, 0.3253, 0.3180



## Tritanopia

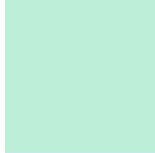
79.3822, 0.2639, 0.3145

# Trichromacy



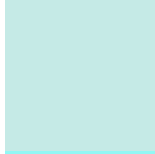
## Original Color

79.8946, 0.2510, 0.3641



## Protanomaly

76.7983, 0.2937, 0.3540



## Deuteranomaly

76.4291, 0.2911, 0.3334



## Tritanomaly

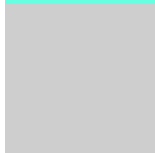
79.1642, 0.2579, 0.3323

# Monochromacy



## Original Color

79.8946, 0.2510, 0.3641



## Achromatopsia

61.7207, 0.3127, 0.3290



## Achromatomaly

66.5504, 0.2830, 0.3422

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 79.8946, 0.2510, 0.3641 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(103, 255, 226)` looks like.

```
.text, #text, p{  
    color:rgb(103, 255, 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(103, 255, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 255, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 79.8946, 0.2510, 0.3641 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(103, 255, 226) }
```

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

```
.border{ border-color:rgb(103, 255, 226) }
```

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

Here you see how a box with a 4 pixel rgb(103, 255, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 255, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 255, 226);  
box-shadow:4px 4px 4px 4px rgb(103, 255,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 79.8946, 0.2510, 0.3641 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 255, 226) }
```

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

```
.background{ background-color: rgb(103,  
255, 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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