

# Converting Colors

$Y_{xy}(78.1398, 0.2278, 0.3115)$

Have a look what the booklet for  
Yxy(78.1398, 0.2278, 0.3115)  
contains.

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# Color

**Yxy(77.1690, 0.2313, 0.3228)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DFAFF
RGB	77, 250, 255
RGB Percent	30%, 98%, 100%
CMY	0.6982, 0.0196, 0.0000
CMYK	0.70, 0.02, 0.00, 0.00
HSL	182°, 100%, 65%
HSV	182°, 70%, 100%
XYZ	55.2949, 77.1690, 106.5975
YIQ	198.8430, -104.7130, -35.1210

# Conversions

## Conversions Part 2

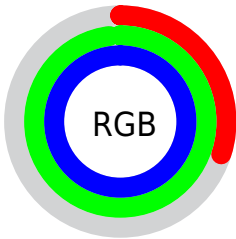
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">77, 165, 255</a>
Decimal	<a href="#">5110527</a>
CIELab	<a href="#">90.40, -41.22, -15.14</a>
CIELCh	<a href="#">90, 43.912, 200.173</a>
Yxy	<a href="#">77.1690, 0.2313, 0.3228</a>
Android (android.graphics.Color)	<a href="#">4283300607 (0xFF4DFAFF)</a>
YUV	<a href="#">198.8430, 27.6854, -106.8563</a>
Hunter-Lab	<a href="#">87.8459, -41.3729, -10.4539</a>

# Details

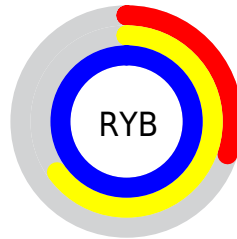
The Yxy color **77.1690, 0.2313, 0.3228** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **27.8242, 0.5467, 0.3336**, and the grayscale version is **56.8833, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1296, 0.2557, 0.3288**, and **42.2171, 0.2225, 0.3210** is the 20% darker color. If you saturate the color by 10%, you get **75.8669, 0.2266, 0.3219**, and if you desaturate by 10%, it is **78.8923, 0.2380, 0.3238**.

# Distribution



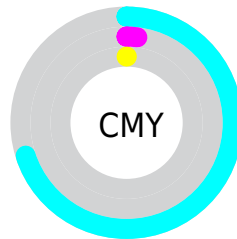
- Red (30%)
- Green (98%)
- Blue (100%)



- Red (30%)
- Yellow (65%)
- Blue (100%)



- Cyan (70%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (70%)
- Magenta (2%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.1690, 0.2313, 0.3228 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 77.1690, 0.2313, 0.3228 by changing the saturation by 10% instead.





 77.1690, 0.2313,  
0.3228

 77.1690, 0.2313,  
0.3228


485.3400, 0.2674,  
0.3268


 57.3916, 0.2235,  
0.3216


 129.3780, 0.2435,  
0.3244


 41.3197, 0.2140,  
0.3201


 162.5784, 0.2484,  
0.3250

 28.5690, 0.2023,  
0.3179


 201.0219, 0.2526,  
0.3254

 18.7550, 0.1877,  
0.3148

 245.0929, 0.2563,  
0.3258

 11.4934, 0.1688,  
0.3101

295.1759, 0.2595,  
0.3261

 6.3997, 0.1438,  
0.3024


351.6551, 0.2625,


 3.0896, 0.1100,


0.3264


0.2887

414.9150, 0.2651,  
0.3266


 1.1787, 0.0205,  
0.2738


 0.0442, 0.0000,  
0.0382


 77.1690, 0.2313,  
0.3228


 77.1690, 0.2313,  
0.3228

 75.8669, 0.2266,  
0.3219


 78.8923, 0.2380,  
0.3238

 74.9280, 0.2237,  
0.3209

 81.0739, 0.2467,  
0.3247

 74.2715, 0.2223,  
0.3200

 83.7540, 0.2572,  
0.3257

 74.2604, 0.2222,  
0.3200

 86.9664, 0.2693,  
0.3266

■ 90.7423, 0.2829,  
0.3274

■ 95.1103, 0.2975,  
0.3283

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.



77.1690, 0.2648, 0.3750



77.1690, 0.2313, 0.3228



77.1690, 0.2188, 0.2784

# Triad

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



77.1690, 0.2313, 0.3228



77.1690, 0.3057, 0.2600



77.1690, 0.4018, 0.4026

# Complementary

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



77.1690, 0.2313, 0.3228



27.8242, 0.5467, 0.3336

# 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.



77.1690, 0.4165, 0.3665



77.1690, 0.2313, 0.3228



77.1690, 0.3586, 0.2879

# Square

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



77.1690, 0.2313, 0.3228



77.1690, 0.2588, 0.2470



77.1690, 0.4006, 0.3256



77.1690, 0.3631, 0.4225



# Rectangle

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



77.1690, 0.2313, 0.3228



77.1690, 0.2228, 0.2588



77.1690, 0.4006, 0.3256



77.1690, 0.4098, 0.3918

# Sweetspot

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



77.1711, 0.2313, 0.3228



90.2652, 0.2812, 0.3273



73.6746, 0.3013, 0.5514



19.0890, 0.2774, 0.3271



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.



77.1711, 0.2313, 0.3228



75.4331, 0.2251, 0.3215



34.9966, 0.2027, 0.2074



20.3888, 0.2980, 0.3283



38.8419, 0.2223, 0.3202



3.8084, 0.2226, 0.3212



# Inverse Universe

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



33.4656, 0.3247, 0.1777



29.6711, 0.3266, 0.1639



50.1530, 0.4706, 0.4158



18.2911, 0.3142, 0.3062



14.6491, 0.3281, 0.1581

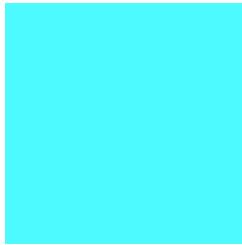


1.4290, 0.3272, 0.1576



# Previews

## White Background



This preview shows how the Yxy color 77.1690, 0.2313, 0.3228 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

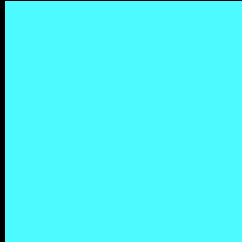
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.1690, 0.2313, 0.3228 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

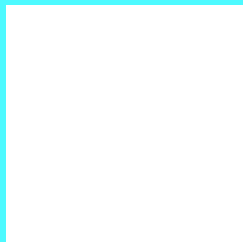
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.1690, 0.2313, 0.3228**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.1690, 0.2313, 0.3228.

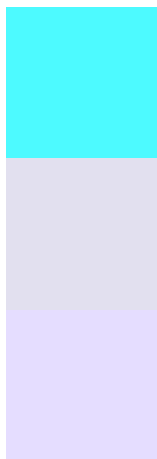


This preview shows how white text looks on a background with the Yxy color 77.1690, 0.2313, 0.3228.

# 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

77.1690, 0.2313, 0.3228

### Protanopia

75.7121, 0.3045, 0.3132

### Deuteranopia

75.5909, 0.2966, 0.2941



## Tritanopia

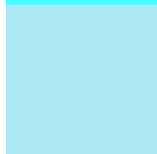
76.6146, 0.2536, 0.3129

# Trichromacy



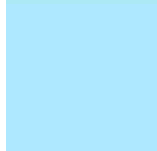
## Original Color

77.1690, 0.2313, 0.3228



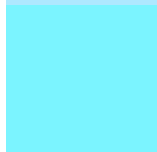
## Protanomaly

73.6411, 0.2682, 0.3153



## Deuteranomaly

73.9319, 0.2640, 0.3033



## Tritanomaly

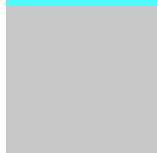
76.1323, 0.2431, 0.3160

# Monochromacy



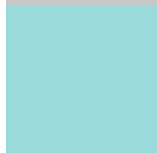
## Original Color

77.1690, 0.2313, 0.3228



## Achromatopsia

57.1125, 0.3127, 0.3290



## Achromatomaly

62.2258, 0.2705, 0.3276

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.1690, 0.2313, 0.3228 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(77, 250, 255)` looks like.

```
.text, #text, p{  
    color:rgb(77, 250, 255)  
}
```

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(77, 250, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 250, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 77.1690, 0.2313, 0.3228 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(77, 250, 255) }
```

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

```
.border{ border-color:rgb(77, 250, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 250, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 250, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 250, 255);  
box-shadow:4px 4px 4px 4px rgb(77, 250,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.1690, 0.2313, 0.3228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 250, 255) }
```

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

```
.background{ background-color: rgb(77, 250,  
255) }
```

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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