

# Converting Colors

$Y_{xy}(72.6586, 0.2276, 0.3144)$

Have a look what the booklet for  
Yxy(72.6586, 0.2276, 0.3144)  
contains.

<b>Yxy(72.5864, 0.2275, 0.3142)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(72.5864, 0.2275, 0.3142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45F3FF
RGB	69, 243, 255
RGB Percent	27%, 95%, 100%
CMY	0.7295, 0.0470, 0.0000
CMYK	0.73, 0.05, 0.00, 0.00
HSL	184°, 100%, 64%
HSV	184°, 73%, 100%
XYZ	52.5570, 72.5864, 105.8763
YIQ	192.3420, -107.5560, -33.1560

# Conversions

## Conversions Part 2

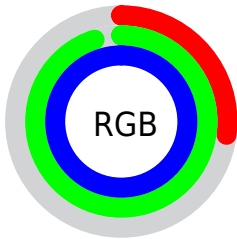
<b>Format</b>	<b>Color</b>
<b>RYB</b>	69, 159, 255
Decimal	4584447
CIELab	88.25, -38.96, -18.40
CIELCh	88, 43.087, 205.281
Yxy	72.5864, 0.2275, 0.3142
Android (android.graphics.Color)	4282774527 (0xFF45F3FF)
YUV	192.3420, 30.8904, -108.1709
Hunter-Lab	85.1977, -38.9823, -14.0422

# Details

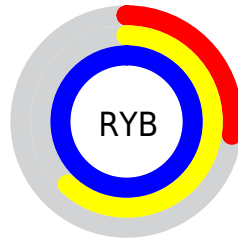
The Yxy color **72.5864, 0.2275, 0.3142** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **27.5698, 0.5560, 0.3388**, and the grayscale version is **52.7811, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.5796, 0.2532, 0.3288**, and **39.1950, 0.2194, 0.3099** is the 20% darker color. If you saturate the color by 10%, you get **70.8665, 0.2229, 0.3120**, and if you desaturate by 10%, it is **74.7162, 0.2341, 0.3165**.

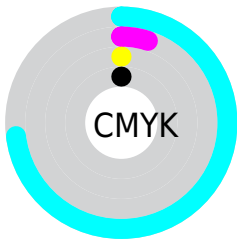
# Distribution



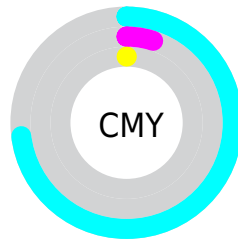
- Red (27%)
- Green (95%)
- Blue (100%)



- Red (27%)
- Yellow (62%)
- Blue (100%)



- Cyan (73%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)




- Cyan (73%)
- Magenta (5%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.5864, 0.2275, 0.3142 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 72.5864, 0.2275, 0.3142 by changing the saturation by 10% instead.





 72.5864, 0.2275,  
0.3142


 72.5864, 0.2275,  
0.3142


469.5801, 0.2656,  
0.3224

 53.6378, 0.2192,  
0.3121


 122.8899, 0.2404,  
0.3173


 38.3122, 0.2091,  
0.3093


 155.0136, 0.2455,  
0.3184

 26.2251, 0.1967,  
0.3055


 192.2978, 0.2500,  
0.3193

 16.9921, 0.1811,  
0.3003

 235.1269, 0.2539,  
0.3201

 10.2289, 0.1610,  
0.2927

283.8852, 0.2573,  
0.3208

 5.5510, 0.1345,  
0.2808

338.9573, 0.2604,

 2.5740, 0.0988,

0.3214

0.2607

400.7275, 0.2631,  
0.3219

■ 0.9136, 0.0000,  
0.2352

■ 0.0000, 0.0000,  
0.0000

■ 72.5864, 0.2275,  
0.3142

■ 72.5864, 0.2275,  
0.3142

■ 70.8665, 0.2229,  
0.3120

■ 74.7162, 0.2341,  
0.3165

■ 69.4998, 0.2201,  
0.3099

■ 77.3002, 0.2426,  
0.3187

■ 68.6923, 0.2190,  
0.3083

■ 80.3783, 0.2529,  
0.3208

■ 83.9858, 0.2649,  
0.3229

■ 88.1545, 0.2783,  
0.3249

■ 92.9137, 0.2928,  
0.3268

■ 98.2908, 0.3081,  
0.3285

■ 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.



72.5864, 0.2577, 0.3665



72.5864, 0.2275, 0.3142



72.5864, 0.2188, 0.2724

# Triad

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



72.5864, 0.2275, 0.3142



72.5864, 0.3147, 0.2637



72.5864, 0.3967, 0.4076

# Complementary

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



72.5864, 0.2275, 0.3142



27.5698, 0.5560, 0.3388

# 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.



72.5864, 0.4162, 0.3733



72.5864, 0.2275, 0.3142



72.5864, 0.3671, 0.2937

# Square

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



72.5864, 0.2275, 0.3142



72.5864, 0.2658, 0.2479



72.5864, 0.4056, 0.3325



72.5864, 0.3550, 0.4234

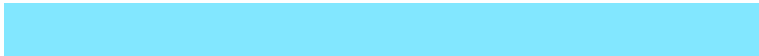


# Rectangle

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



72.5864, 0.2275, 0.3142



72.5864, 0.2253, 0.2552



72.5864, 0.4056, 0.3325



72.5864, 0.4062, 0.3976

# Sweetspot

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



72.5868, 0.2275, 0.3142



88.5817, 0.2796, 0.3251



73.3382, 0.2994, 0.5545



18.7027, 0.2759, 0.3246



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.



72.5868, 0.2275, 0.3142



70.1364, 0.2213, 0.3109



31.1637, 0.1966, 0.1924



20.2689, 0.2980, 0.3274



35.9790, 0.2191, 0.3087



3.5613, 0.2198, 0.3112



# Inverse Universe

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



31.9841, 0.3320, 0.1783



28.5419, 0.3356, 0.1665



50.9240, 0.4732, 0.4233



18.2790, 0.3148, 0.3071



14.3601, 0.3378, 0.1635

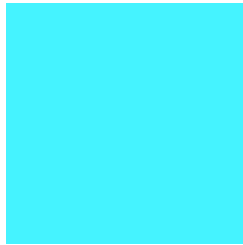


1.4041, 0.3357, 0.1623



# Previews

## White Background



This preview shows how the Yxy color 72.5864, 0.2275, 0.3142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

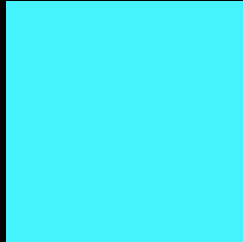
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.5864, 0.2275, 0.3142 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

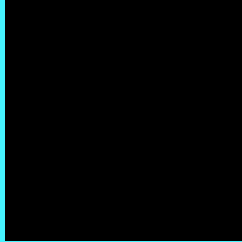
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.5864, 0.2275, 0.3142**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.5864, 0.2275, 0.3142.

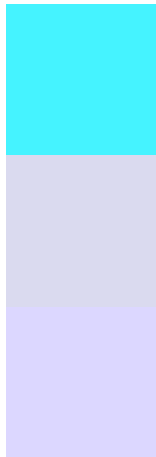


This preview shows how white text looks on a background with the Yxy color 72.5864, 0.2275, 0.3142.

# 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

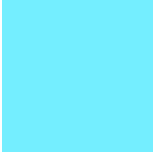
72.5864, 0.2275, 0.3142

### Protanopia

71.2802, 0.2991, 0.3065

### Deuteranopia

71.0365, 0.2904, 0.2871



## **Tritanopia**

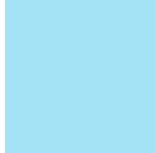
72.0821, 0.2391, 0.3087

# Trichromacy



## Original Color

72.5864, 0.2275, 0.3142



## Protanomaly

69.4233, 0.2630, 0.3081



## Deuteranomaly

69.0698, 0.2582, 0.2948



## Tritanomaly

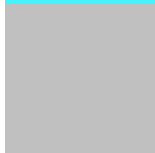
72.1928, 0.2341, 0.3109

# Monochromacy



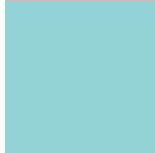
## Original Color

72.5864, 0.2275, 0.3142



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

57.6979, 0.2671, 0.3238

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.5864, 0.2275, 0.3142 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(69, 243, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 243, 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(69, 243, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 243, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.5864, 0.2275, 0.3142 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(69, 243, 255) }
```

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

```
.border{ border-color:rgb(69, 243, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 243, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 243, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 243, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 243,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.5864, 0.2275, 0.3142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 243, 255) }
```

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

```
.background{ background-color: rgb(69, 243,  
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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