

# Converting Colors

$Y_{xy}(78.8577, 0.2517, 0.3760)$

Have a look what the booklet for  
Yxy(78.8577, 0.2517, 0.3760)  
contains.

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# Color

**Yxy(78.8569, 0.2517, 0.3760)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DFFD9
RGB	93, 255, 217
RGB Percent	36%, 100%, 85%
CMY	0.6358, 0.0000, 0.1490
CMYK	0.64, 0.00, 0.15, 0.00
HSL	166°, 100%, 68%
HSV	166°, 64%, 100%
XYZ	52.7880, 78.8569, 78.0809
YIQ	202.2300, -84.3540, -46.1620

# Conversions

## Conversions Part 2

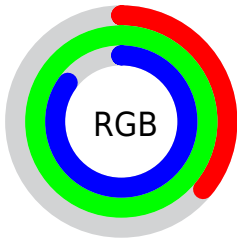
Format	Color
R <sub>Y</sub> B	93, 185, 255
Decimal	6160345
CIE Lab	91.17, -50.94, 5.76
CIE LCh	91, 51.268, 173.550
Yxy	78.8569, 0.2517, 0.3760
Android (android.graphics.Color)	4284350425 (0xFF5DFFD9)
YUV	202.2300, 7.2816, -95.7947
Hunter-Lab	88.8014, -49.2932, 10.0287

# Details

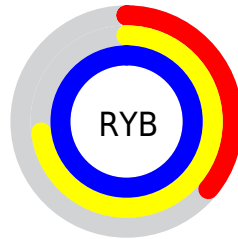
The Yxy color **78.8569, 0.2517, 0.3760** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted cyan. A complement of this color would be **30.7015, 0.4702, 0.2933**, and the grayscale version is **59.1809, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.0091, 0.2596, 0.3288**, and **42.5411, 0.2407, 0.3866** is the 20% darker color. If you saturate the color by 10%, you get **77.4306, 0.2478, 0.3847**, and if you desaturate by 10%, it is **80.7240, 0.2576, 0.3674**.

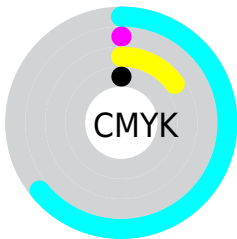
# Distribution



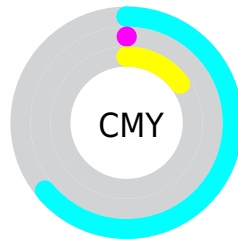
- Red (36%)
- Green (100%)
- Blue (85%)



- Red (36%)
- Yellow (73%)
- Blue (100%)



- Cyan (64%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (64%)
- Magenta (0%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.8569, 0.2517, 0.3760 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 78.8569, 0.2517, 0.3760 by changing the saturation by 10% instead.




 78.8569, 0.2517,  
0.3760

 78.8569, 0.2517,  
0.3760

491.0721, 0.2796,  
0.3541


 58.7782, 0.2454,  
0.3810


 131.7574, 0.2613,  
0.3684

 42.4346, 0.2377,  
0.3873

 165.3479, 0.2651,  
0.3654

 29.4417, 0.2281,  
0.3951


 204.2112, 0.2683,  
0.3629

 19.4152, 0.2157,  
0.4055

248.7316, 0.2711,  
0.3607

 11.9707, 0.1991,  
0.4196

299.2934, 0.2736,  
0.3587

 6.7237, 0.1760,  
0.4398


356.2812, 0.2758,


 3.2899, 0.1421,


0.3570

0.4712


420.0793, 0.2778,  
0.3555

 1.2849, 0.0000,  
0.5765


 0.1295, 0.0000,  
1.0000

 78.8569, 0.2517,  
0.3760

 78.8569, 0.2517,  
0.3760


 77.4306, 0.2478,  
0.3847


 80.7240, 0.2576,  
0.3674

 76.4194, 0.2458,  
0.3936


 83.0922, 0.2653,  
0.3591

 75.7600, 0.2458,  
0.4023

 85.9903, 0.2745,  
0.3513

 75.4704, 0.2466,  
0.4079

 89.4503, 0.2849,  
0.3440

 93.5019, 0.2963,  
0.3372

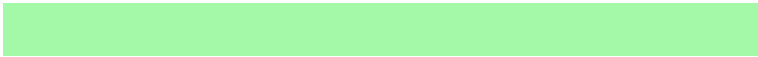
 98.1726, 0.3083,  
0.3311

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.



78.8569, 0.3052, 0.4251



78.8569, 0.2517, 0.3760



78.8569, 0.2165, 0.3143

# Triad

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



78.8569, 0.2517, 0.3760



78.8569, 0.2558, 0.2363



78.8569, 0.4325, 0.3757

# Complementary

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



78.8569, 0.2517, 0.3760



30.7015, 0.4702, 0.2933

# 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.



78.8569, 0.4186, 0.3293



78.8569, 0.2517, 0.3760



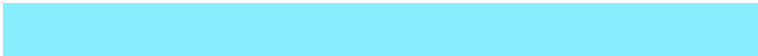
78.8569, 0.3110, 0.2532

# Square

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



78.8569, 0.2517, 0.3760



78.8569, 0.2192, 0.2395



78.8569, 0.3722, 0.2861



78.8569, 0.4110, 0.4166



# Rectangle

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



78.8569, 0.2517, 0.3760



78.8569, 0.2065, 0.2794



78.8569, 0.3722, 0.2861



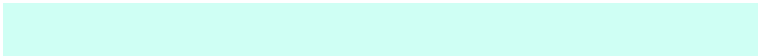
78.8569, 0.4320, 0.3604

# Sweetspot

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



78.8501, 0.2517, 0.3760



91.2307, 0.2900, 0.3408



77.3275, 0.3217, 0.5241



19.2860, 0.2868, 0.3428



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.



78.8501, 0.2517, 0.3760



77.1503, 0.2471, 0.3869



57.8708, 0.2247, 0.2784



20.4043, 0.3011, 0.3346



39.4592, 0.2462, 0.4064



3.8588, 0.2435, 0.3965



# Inverse Universe

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



30.7015, 0.4702, 0.2933



25.6726, 0.5201, 0.2931



38.9339, 0.4886, 0.3683



18.0568, 0.3257, 0.3234



11.2970, 0.5983, 0.3070

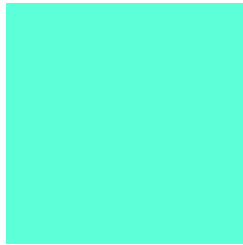


1.1160, 0.5673, 0.2899



# Previews

## White Background



This preview shows how the Yxy color 78.8569, 0.2517, 0.3760 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

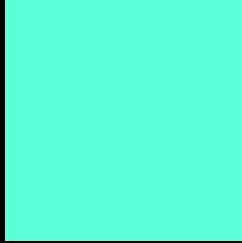
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.8569, 0.2517, 0.3760 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

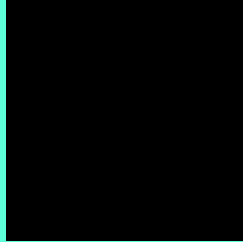
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

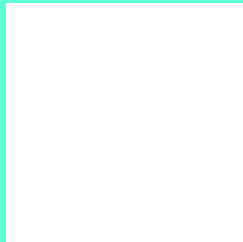
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.8569, 0.2517, 0.3760**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.8569, 0.2517, 0.3760.

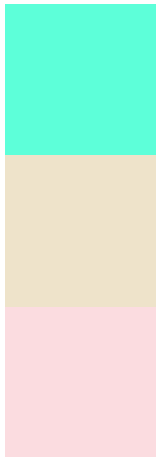


This preview shows how white text looks on a background with the Yxy color 78.8569, 0.2517, 0.3760.

# 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

78.8569, 0.2517, 0.3760

### Protanopia

77.3796, 0.3371, 0.3554

### Deuteranopia

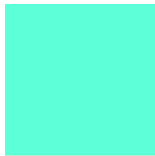
77.0774, 0.3324, 0.3250



## Tritanopia

78.0231, 0.2602, 0.3132

# Trichromacy



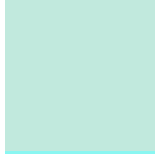
## Original Color

78.8569, 0.2517, 0.3760



## Protanomaly

75.3877, 0.2970, 0.3637



## Deuteranomaly

74.8357, 0.2938, 0.3425



## Tritanomaly

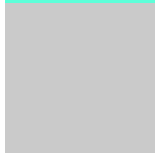
77.6657, 0.2556, 0.3347

# Monochromacy



## Original Color

78.8569, 0.2517, 0.3760



## Achromatopsia

59.0619, 0.3127, 0.3290



## Achromatomaly

63.8993, 0.2819, 0.3463

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.8569, 0.2517, 0.3760 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(93, 255, 217)` looks like.

```
.text, #text, p{  
    color:rgb(93, 255, 217)  
}
```

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(93, 255, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 255, 217) }
```

## Border

The CSS property to change the border of an element to Yxy 78.8569, 0.2517, 0.3760 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(93, 255, 217) }
```

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

```
.border{ border-color:rgb(93, 255, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 255, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 255, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 255, 217);  
box-shadow:4px 4px 4px 4px rgb(93, 255,  
217) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.8569, 0.2517, 0.3760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 255, 217) }
```

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

```
.background{ background-color: rgb(93, 255,  
217) }
```

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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