

# Converting Colors

$Y_{xy}(100.0000, 0.2490, 0.4079)$

Have a look what the booklet for  
Yxy(100.0000, 0.2490, 0.4079)  
contains.

<b>Yxy(77.1384, 0.2398, 0.3732)</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(77.1384, 0.2398, 0.3732)**

# Conversions

## Conversions Part 1

Format	Color
Hex	28FFDC
RGB	40, 255, 220
RGB Percent	16%, 100%, 86%
CMY	0.8415, 0.0000, 0.1372
CMYK	0.84, 0.00, 0.14, 0.00
HSL	170°, 100%, 58%
HSV	170°, 84%, 100%
XYZ	49.5653, 77.1384, 79.9908
YIQ	186.7250, -116.9050, -56.4650

# Conversions

## Conversions Part 2

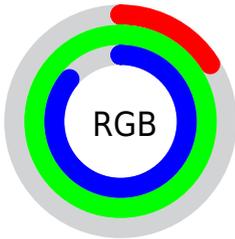
Format	Color
<a href="#">RYB</a>	<a href="#">40, 157, 255</a>
Decimal	<a href="#">2686940</a>
CIELab	<a href="#">90.39, -56.10, 2.96</a>
CIELCh	<a href="#">90, 56.181, 176.981</a>
Yxy	<a href="#">77.1384, 0.2398, 0.3732</a>
Android (android.graphics.Color)	<a href="#">4280877020</a> ( <a href="#">0xFF28FFDC</a> )
YUV	<a href="#">186.7250, 16.4046, -128.6778</a>
Hunter-Lab	<a href="#">87.8285, -52.9647, 7.4809</a>

# Details

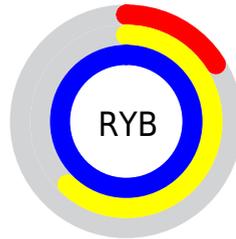
The Yxy color **77.1384, 0.2398, 0.3732** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **23.3172, 0.5730, 0.3086**, and the grayscale version is **49.5564, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.2520, 0.2471, 0.3288**, and **42.6491, 0.2393, 0.3814** is the 20% darker color. If you saturate the color by 10%, you get **76.5652, 0.2393, 0.3791**, and if you desaturate by 10%, it is **78.0602, 0.2422, 0.3673**.

# Distribution



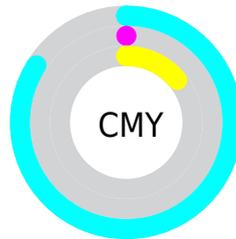
- Red (16%)
- Green (100%)
- Blue (86%)



- Red (16%)
- Yellow (62%)
- Blue (100%)



- Cyan (84%)
- Magenta (0%)
- Yellow (14%)
- Black (0%)



- Cyan (84%)
- Magenta (0%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.1384, 0.2398, 0.3732 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 77.1384, 0.2398, 0.3732 by changing the saturation by 10% instead.

 77.1384, 0.2398,  
0.3732

 77.1384, 0.2398,  
0.3732

485.2358, 0.2730,  
0.3528

 57.3665, 0.2324,  
0.3778

 129.3348, 0.2512,  
0.3662

 41.2995, 0.2233,  
0.3835

 162.5281, 0.2557,  
0.3634

 28.5532, 0.2120,  
0.3907

 200.9640, 0.2595,  
0.3610

 18.7431, 0.1975,  
0.3999

 245.0268, 0.2629,  
0.3590

 11.4848, 0.1784,  
0.4124

295.1010, 0.2659,  
0.3572

 6.3939, 0.1521,  
0.4299

351.5710, 0.2685,

 3.0861, 0.1146,

0.3555

414.8211, 0.2709,  
0.3541

0.4560

 1.1768, 0.0000,  
0.5291

 0.0427, 0.0000,  
1.0000

 77.1384, 0.2398,  
0.3732

 77.1384, 0.2398,  
0.3732

 76.5652, 0.2393,  
0.3791

 78.0602, 0.2422,  
0.3673

 76.3397, 0.2396,  
0.3825

 79.3786, 0.2466,  
0.3614

 81.1433, 0.2529,  
0.3556

 83.3944, 0.2611,  
0.3500

 86.1674, 0.2709,  
0.3446

 89.4947, 0.2820,  
0.3396

 93.4059, 0.2942,  
0.3349

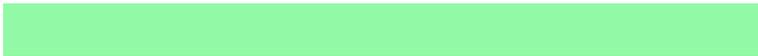
 97.9285, 0.3072,  
0.3307

 99.9943, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.1384, 0.2964, 0.4317



77.1384, 0.2398, 0.3732



77.1384, 0.2048, 0.3048

# Triad

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



77.1384, 0.2398, 0.3732



77.1384, 0.2562, 0.2292



77.1384, 0.4437, 0.3845

# Complementary

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



77.1384, 0.2398, 0.3732



23.3172, 0.5730, 0.3086

# 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.



77.1384, 0.4335, 0.3342



77.1384, 0.2398, 0.3732



77.1384, 0.3183, 0.2497

# Square

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



77.1384, 0.2398, 0.3732



77.1384, 0.2140, 0.2295



77.1384, 0.3855, 0.2869



77.1384, 0.4153, 0.4286

# Rectangle

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



77.1384, 0.2398, 0.3732



77.1384, 0.1962, 0.2683



77.1384, 0.3855, 0.2869



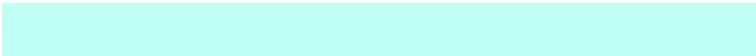
77.1384, 0.4449, 0.3679

# Sweetspot

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



77.1414, 0.2398, 0.3732



89.1974, 0.2811, 0.3400



73.2139, 0.3095, 0.5789



18.8314, 0.2770, 0.3418



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.



77.1414, 0.2398, 0.3732



76.3458, 0.2396, 0.3825



41.7378, 0.2015, 0.2339



20.4276, 0.3002, 0.3329



39.9113, 0.2393, 0.3815



3.8990, 0.2375, 0.3748



# Inverse Universe

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



23.3172, 0.5730, 0.3086



21.4241, 0.6201, 0.3190



32.9890, 0.5493, 0.3822



18.0354, 0.3269, 0.3251



11.2087, 0.6170, 0.3173

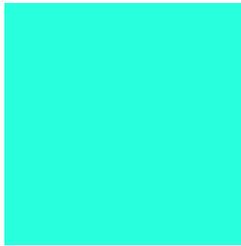


1.1044, 0.5892, 0.3020



# Previews

## White Background



This preview shows how the Yxy color 77.1384, 0.2398, 0.3732 looks on a white background.

## Color Contrast Check

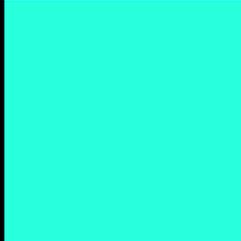
Large Text (above 18pt) WCAG AA × Fail

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 77.1384, 0.2398, 0.3732 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

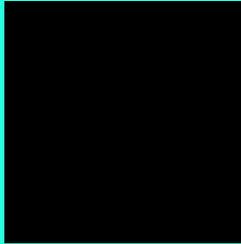
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

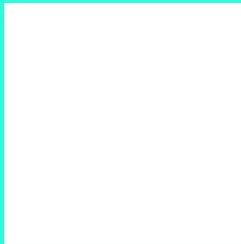
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.1384, 0.2398, 0.3732**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.1384, 0.2398, 0.3732.

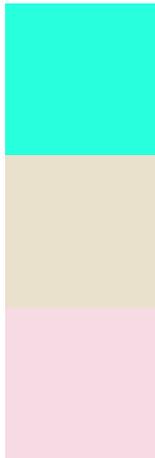


This preview shows how white text looks on a background with the Yxy color 77.1384, 0.2398, 0.3732.

# 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

77.1384, 0.2398, 0.3732

### Protanopia

75.7025, 0.3331, 0.3514

### Deuteranopia

75.3371, 0.3262, 0.3188



## Tritanopia

76.4265, 0.2527, 0.3129

# Trichromacy



## Original Color

77.1384, 0.2398, 0.3732



## Protanomaly

72.5366, 0.2826, 0.3601



## Deuteranomaly

71.2460, 0.2780, 0.3359



## Tritanomaly

75.5735, 0.2441, 0.3336

# Monochromacy



## Original Color

77.1384, 0.2398, 0.3732



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

56.2788, 0.2687, 0.3462

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.1384, 0.2398, 0.3732 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(40, 255, 220)` looks like.

```
.text, #text, p{  
    color:rgb(40, 255, 220)  
}
```

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(40, 255, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 255, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 77.1384, 0.2398, 0.3732 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(40, 255, 220) }
```

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

```
.border{ border-color:rgb(40, 255, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 255, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 255, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 255, 220);  
box-shadow:4px 4px 4px 4px rgb(40, 255,  
220) }
```

# Background

The CSS property to change the background color of an element to  $Yxy$  77.1384, 0.2398, 0.3732 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 255, 220) }
```

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

```
.background{ background-color: rgb(40, 255,  
220) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor