

# Converting Colors

$Y_{xy}(38.6063, 0.3524, 0.2554)$

Have a look what the booklet for  
Yxy(38.6063, 0.3524, 0.2554)  
contains.

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# Color

**Yxy(38.7781, 0.3525, 0.2560)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC85C8
RGB	236, 133, 200
RGB Percent	93%, 52%, 78%
CMY	0.0746, 0.4783, 0.2158
CMYK	0.00, 0.44, 0.15, 0.07
HSL	321°, 73%, 72%
HSV	321°, 44%, 93%
XYZ	53.3956, 38.7781, 59.3032
YIQ	171.4350, 39.8810, 42.6730

# Conversions

## Conversions Part 2

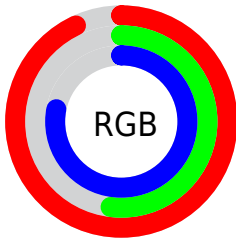
Format	Color
R <sub>Y</sub> B	236, 133, 200
Decimal	15500744
CIE Lab	68.59, 47.95, -17.49
CIE LCh	69, 51.041, 339.965
Yxy	38.7781, 0.3525, 0.2560
Android (android.graphics.Color)	4293690824 (0xFFEC85C8)
YUV	171.4350, 14.0825, 56.6235
Hunter-Lab	62.2721, 44.0800, -12.8729

# Details

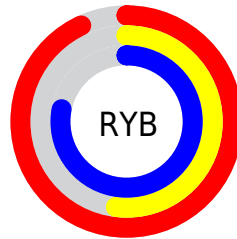
The Yxy color **38.7781, 0.3525, 0.2560** is a light color, and the websafe version is hex **FF99CC**. A complement of this color would be **67.8275, 0.2876, 0.4166**, and the grayscale version is **40.8699, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.4464, 0.3158, 0.2634**, and **17.2776, 0.3627, 0.2372** is the 20% darker color. If you saturate the color by 10%, you get **32.6513, 0.3655, 0.2407**, and if you desaturate by 10%, it is **46.3806, 0.3409, 0.2727**.

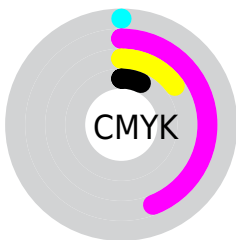
# Distribution



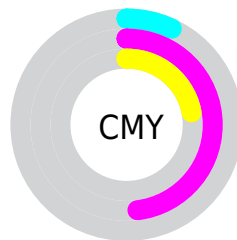
- Red (93%)
- Green (52%)
- Blue (78%)



- Red (93%)
- Yellow (52%)
- Blue (78%)



- Cyan (0%)
- Magenta (44%)
- Yellow (15%)
- Black (7%)




- Cyan (7%)
- Magenta (48%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.7781, 0.3525, 0.2560 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 38.7781, 0.3525, 0.2560 by changing the saturation by 10% instead.





 38.7781, 0.3525,  
0.2560


 38.7781, 0.3525,  
0.2560


340.9461, 0.3332,  
0.2912


 26.5871, 0.3572,  
0.2476


 73.2992, 0.3456,  
0.2685

 17.2634, 0.3630,  
0.2371


 96.3982, 0.3430,  
0.2733

 10.4225, 0.3706,  
0.2235


 123.9019, 0.3407,  
0.2774

 5.6800, 0.3809,  
0.2054

156.1948, 0.3388,  
0.2809

 2.6515, 0.3954,  
0.1802

193.6613, 0.3371,  
0.2840

 0.9526, 0.4172,  
0.1433

236.6857, 0.3356,


 0.0000, 0.4953,


0.2867


0.0000


285.6526, 0.3343,  
0.2891

 0.0000, 0.0000,  
0.0000

 38.7781, 0.3525,  
0.2560


 38.7781, 0.3525,  
0.2560

 32.6513, 0.3655,  
0.2407


 46.3806, 0.3409,  
0.2727

 27.8960, 0.3799,  
0.2279

 55.5430, 0.3309,  
0.2899


 24.4032, 0.3952,  
0.2188

 66.3492, 0.3223,  
0.3069


 22.0448, 0.4108,  
0.2142

 78.8760, 0.3150,  
0.3233

 20.6647, 0.4262,  
0.2149

 93.1951, 0.3090,  
0.3388

 20.1434, 0.4359,  
0.2175

 96.2171, 0.3042,  
0.3344

 96.5677, 0.3011,  
0.3290

# Harmonies

## Analogous

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



38.7781, 0.2764, 0.2246



38.7781, 0.3525, 0.2560



38.7781, 0.4239, 0.3028

# Triad

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



38.7781, 0.3525, 0.2560



38.7781, 0.4033, 0.4567



38.7781, 0.1839, 0.2720

# Complementary

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



38.7781, 0.3525, 0.2560



67.8275, 0.2876, 0.4166

# 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.



38.7781, 0.2094, 0.3439



38.7781, 0.3525, 0.2560



38.7781, 0.3343, 0.4666

# Square

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



38.7781, 0.3525, 0.2560



38.7781, 0.4514, 0.4127



38.7781, 0.2633, 0.4229



38.7781, 0.1875, 0.2286



# Rectangle

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



38.7781, 0.3525, 0.2560



38.7781, 0.4539, 0.3388



38.7781, 0.2633, 0.4229



38.7781, 0.1891, 0.2932

# Sweetspot

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



38.7799, 0.3525, 0.2560



79.9188, 0.3219, 0.3078



31.0901, 0.2569, 0.2020



16.4518, 0.3236, 0.3041



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.



38.7799, 0.3525, 0.2560



39.8634, 0.3636, 0.2428



36.8186, 0.4082, 0.3099



15.2191, 0.3191, 0.3138



11.1320, 0.4335, 0.2162



0.8922, 0.4139, 0.2054



# Inverse Universe

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



38.7799, 0.3525, 0.2560



39.8634, 0.3636, 0.2428



70.0670, 0.2619, 0.3501



15.2191, 0.3191, 0.3138



11.1320, 0.4335, 0.2162



0.8922, 0.4139, 0.2054



# Previews

## White Background



This preview shows how the Yxy color 38.7781, 0.3525, 0.2560 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 38.7781, 0.3525, 0.2560 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

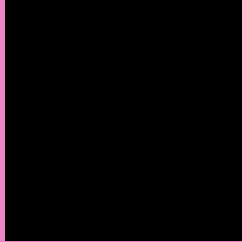
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.7781, 0.3525, 0.2560**

## Background



This preview shows how black text looks on a background with the Yxy color 38.7781, 0.3525, 0.2560.



This preview shows how white text looks on a background with the Yxy color 38.7781, 0.3525, 0.2560.

# 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

38.7781, 0.3525, 0.2560

### Protanopia

39.2755, 0.2583, 0.2543

### Deuteranopia

39.1490, 0.2932, 0.2875



## Tritanopia

38.6348, 0.3964, 0.3165

# Trichromacy



## Original Color

38.7781, 0.3525, 0.2560



## Protanomaly

38.0848, 0.2875, 0.2526



## Deuteranomaly

38.4158, 0.3134, 0.2738



## Tritanomaly

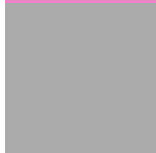
38.6912, 0.3805, 0.2939

# Monochromacy



## Original Color

38.7781, 0.3525, 0.2560



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

39.0934, 0.3267, 0.2970

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.7781, 0.3525, 0.2560 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(236, 133, 200)` looks like.

```
.text, #text, p{  
    color:rgb(236, 133, 200)  
}
```

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(236, 133, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 133, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 38.7781, 0.3525, 0.2560 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(236, 133, 200) }
```

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

```
.border{ border-color:rgb(236, 133, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 133, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 133, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 133, 200);  
box-shadow:4px 4px 4px 4px rgb(236, 133,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.7781, 0.3525, 0.2560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 133, 200) }
```

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

```
.background{ background-color: rgb(236,  
133, 200) }
```

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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